

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P382689

Luminaire Tested: **GLEON-SA0D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70085 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

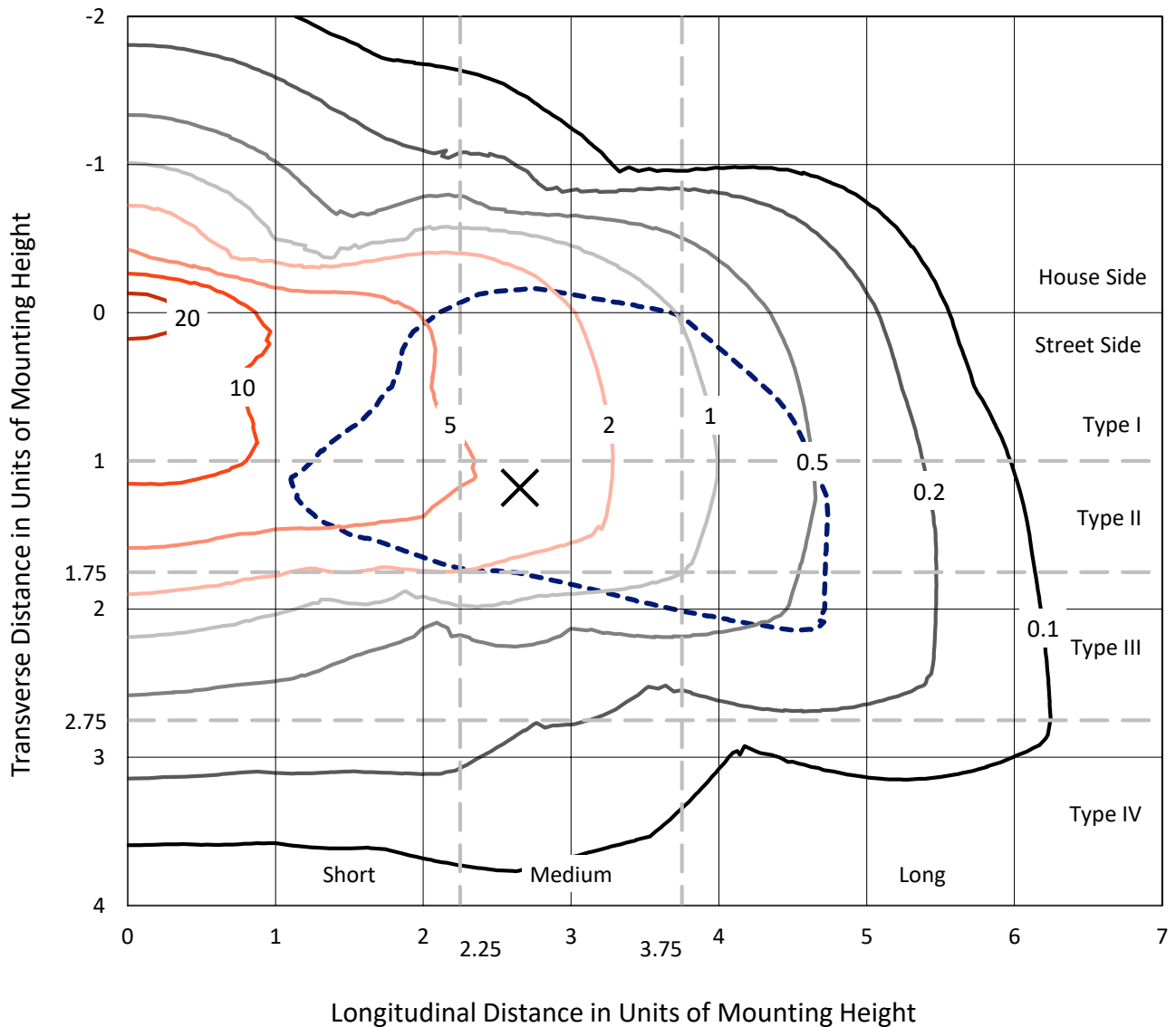
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382689
 CATALOG NUMBER: GLEON-SA0D-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

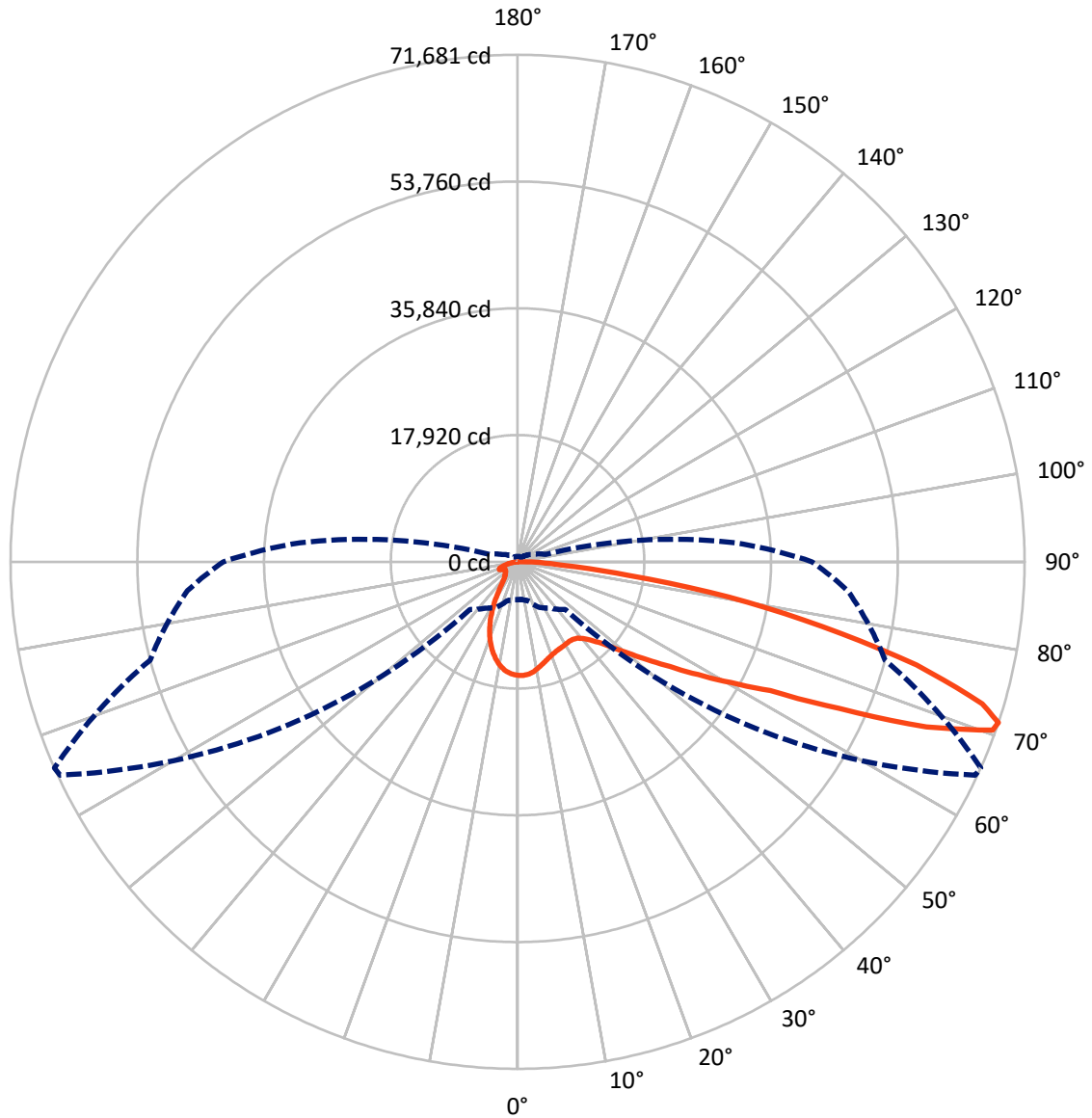
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P382689
CATALOG NUMBER: GLEON-SA0D-735-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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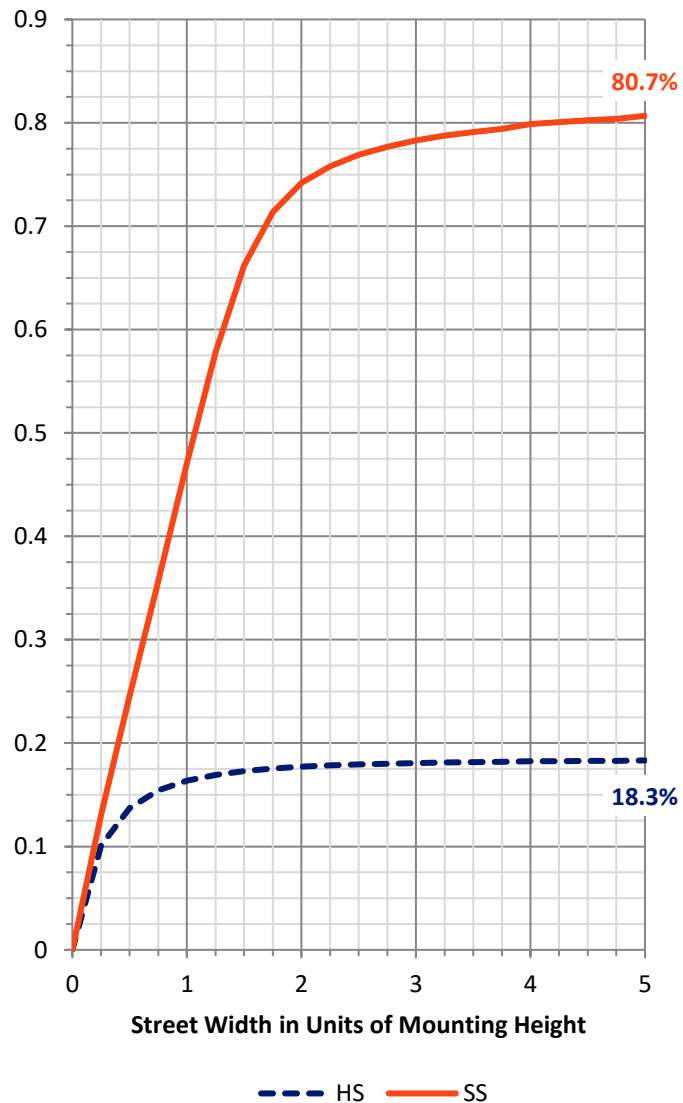
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12988.7	0.0	12988.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	57096.3	0.0	57096.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	70085.0	0.0	70085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1413.2	2.0
10°-20°	3389.5	4.8
20°-30°	4553.0	6.5
30°-40°	5989.4	8.5
40°-50°	8713.0	12.4
50°-60°	13610.7	19.4
60°-70°	17049.6	24.3
70°-80°	13005.0	18.6
80°-90°	2361.6	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	70085.0	100.0
0°-180°	70085.0	100.0

Coefficient of Utilization

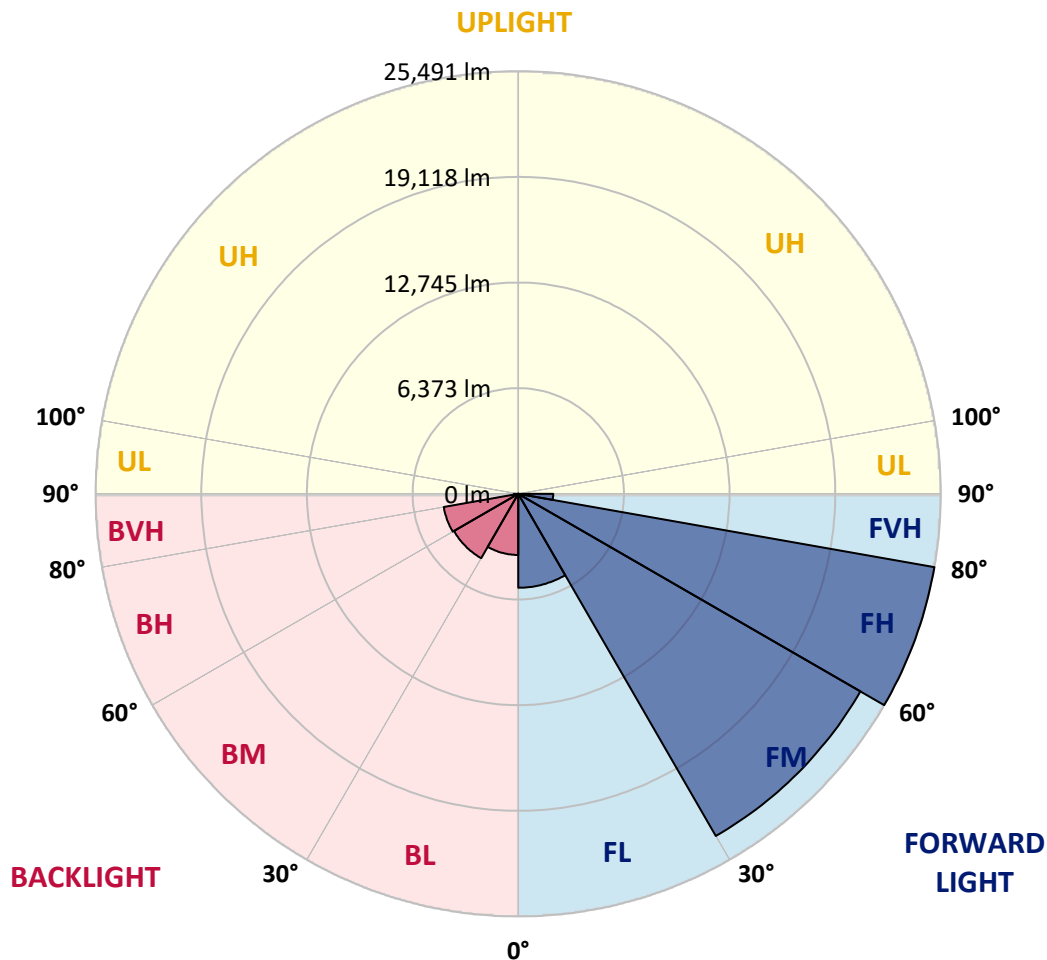


REPORT NUMBER: P382689
 CATALOG NUMBER: GLEON-SA0D-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5667.3	8.1			
FM (30°-60°)	23832.4	34.0			
FH (60°-80°)	25490.6	36.4			G5
FVH (80°-90°)	2105.9	3.0			G5
BL (0°-30°)	3688.4	5.3	B4/5000		
BM (30°-60°)	4480.7	6.4	B3/5000		
BH (60°-80°)	4563.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	255.6	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1
2.5°	15757.5	15733.3	15805.8	15880.9	15909.9	15958.3	16030.9	16072.1	16069.7	16076.9	16052.7
5°	14712.1	14680.7	14825.9	14944.4	15171.9	15428.4	15740.5	15963.2	15968.0	16093.8	16127.7
7.5°	13722.4	13700.6	13867.7	14058.8	14322.5	14714.5	15220.3	15699.4	15728.4	16069.7	16188.2
10°	12928.8	12923.9	13086.1	13294.2	13601.4	14039.4	14620.2	15321.9	15365.5	15953.5	16197.8
12.5°	12309.3	12319.0	12459.4	12696.5	13020.7	13478.1	14107.2	14898.4	14968.7	15769.6	16142.2
15°	11852.0	11890.7	12004.4	12244.0	12563.4	13028.0	13674.1	14506.4	14612.9	15563.9	16110.7
17.5°	11590.7	11634.2	11714.0	11912.4	12212.5	12660.2	13272.4	14184.7	14281.5	15406.6	16113.2
20°	11513.2	11549.5	11595.5	11716.4	11970.6	12377.1	12955.4	13894.3	13998.3	15280.8	16137.4
22.5°	11665.7	11692.3	11697.2	11687.5	11842.3	12173.8	12725.5	13681.4	13792.7	15198.5	16154.3
25°	11992.4	12028.6	12002.1	11912.4	11861.7	12064.9	12606.9	13541.0	13652.3	15138.0	16120.4
27.5°	12483.6	12488.4	12466.6	12350.5	12110.9	12077.0	12570.7	13458.7	13565.2	15067.9	16050.3
30°	13151.4	13182.9	13144.1	12986.9	12594.9	12270.6	12614.2	13378.9	13475.7	14978.4	15936.5
32.5°	13933.0	14010.4	14008.0	13843.4	13282.1	12703.7	12793.3	13330.4	13405.4	14884.0	15798.6
35°	14743.6	14850.1	15048.5	14978.4	14283.9	13388.6	13136.9	13407.9	13458.7	14871.9	15701.8
37.5°	15585.7	15692.1	16101.1	16289.8	15476.8	14368.6	13678.9	13681.4	13705.5	15019.4	15694.5
40°	16466.5	16580.2	17194.8	17686.0	17023.0	15609.8	14552.5	14252.4	14225.8	15382.5	15837.3
42.5°	17700.5	17802.2	18540.2	19167.0	18738.6	17199.6	15759.9	15133.2	15077.6	16093.8	16294.6
45°	19261.3	19348.4	20132.4	20802.7	20582.5	19014.5	17277.1	16345.5	16335.8	17279.6	17221.4
47.5°	21117.3	21185.0	21889.1	22537.7	22617.5	21102.7	19183.8	18215.9	18058.7	18905.6	18656.4
50°	23050.7	23125.7	23604.8	24301.7	24894.5	23897.5	21637.5	20507.5	20296.9	21052.0	20688.9
52.5°	24330.7	24429.9	24846.1	25729.3	27454.6	26960.9	24538.8	23285.3	22965.9	23653.2	23374.9
55°	23759.6	23982.2	24618.7	26034.2	29501.7	31640.8	28117.6	26525.4	26164.8	26736.0	26571.4
57.5°	21163.3	21468.1	22336.8	24521.9	29789.7	35764.1	33528.2	30341.3	30087.3	29922.8	29997.8
60°	16418.1	16710.8	17787.6	20635.7	27783.7	38774.3	41670.7	35045.4	34677.6	33121.6	33189.5
62.5°	11619.7	11472.1	12210.1	14293.6	22576.3	39127.5	50936.0	41336.8	40126.9	36499.7	36202.1
65°	8861.2	8827.3	9158.8	9821.8	13674.1	34900.2	56455.4	51911.1	50021.3	40472.9	39771.2
67.5°	7281.1	7220.6	7547.2	8512.8	8805.5	22515.9	56576.4	64179.3	62323.3	45418.9	43899.3
70°	5986.5	5918.8	6223.7	7469.8	8137.6	11418.8	47616.1	71363.6	71264.4	51681.2	47016.0
71°	5367.0	5318.7	5684.0	7068.1	7994.9	9516.9	41111.7	71382.9	71680.5	53801.0	46832.1
72.5°	4370.1	4387.0	4774.2	6291.4	7888.4	8403.9	30215.6	68055.8	68684.9	55821.5	45160.0
75°	2903.7	2918.3	3426.4	4839.5	7648.8	8222.3	16606.8	57106.4	58263.0	54611.6	41208.5
77.5°	1950.3	1945.4	2291.5	3319.9	6664.0	8222.3	9737.1	42711.2	43981.5	43454.1	31769.0
80°	1343.0	1333.3	1577.7	2291.5	5045.2	8321.5	7527.8	29932.5	30317.2	23466.8	12911.8
82.5°	822.7	830.0	1030.9	1618.8	3433.7	7489.2	7106.9	16321.3	15902.6	6581.8	3225.6
85°	471.8	469.4	658.1	1096.2	2204.4	6320.5	6930.2	7024.5	6443.8	1981.8	1166.3
87.5°	169.4	181.5	353.2	607.4	1263.1	4401.6	5880.0	3653.8	3293.3	895.3	527.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1	16055.1
2.5°	16035.8	16050.3	16033.3	15936.5	15854.3	15721.2	15646.2	15542.1	15510.6	15496.1	15534.9
5°	16096.2	16101.1	15958.3	15704.2	15418.7	15082.4	14840.4	14542.8	14402.4	14341.9	14380.7
7.5°	16151.9	16130.1	15818.0	15331.6	14804.1	14218.5	13698.2	13221.5	12943.3	12829.6	12839.2
10°	16159.2	16067.2	15566.3	14813.7	13995.9	13136.9	12338.3	11602.8	11138.1	10835.7	10927.6
12.5°	16084.2	15929.3	15196.1	14143.5	13008.6	11837.5	10758.3	9654.8	8991.9	8684.5	8694.2
15°	16026.1	15745.4	14741.2	13354.7	11830.2	10279.2	8805.5	7508.6	6802.0	6487.4	6339.7
17.5°	15977.7	15547.0	14213.6	12466.6	10438.8	8471.6	6700.3	5543.6	5156.5	5064.5	5025.9
20°	15909.9	15336.4	13625.7	11438.2	8853.9	6448.6	4892.8	4321.7	4324.2	4430.6	4445.1
22.5°	15815.5	15096.8	12999.0	10284.0	7152.8	4696.8	3835.3	3670.8	3837.7	4041.0	4077.3
25°	15675.2	14813.7	12302.0	9008.8	5454.1	3610.3	3276.3	3269.1	3472.3	3685.3	3716.8
27.5°	15476.8	14443.6	11527.7	7639.2	4019.3	3068.2	2935.2	2986.0	3136.1	3290.9	3303.0
30°	15210.6	14012.8	10673.6	6194.6	3150.5	2731.9	2717.4	2763.3	2855.3	2964.2	2973.9
32.5°	14917.8	13574.9	9761.3	4796.0	2698.0	2550.4	2564.9	2586.7	2630.3	2673.8	2683.5
35°	14651.7	13127.2	8827.3	3644.1	2482.7	2431.9	2422.2	2417.4	2422.2	2407.7	2410.1
37.5°	14479.9	12757.0	7854.5	2901.3	2359.2	2327.8	2298.8	2262.4	2221.4	2197.1	2202.0
40°	14416.9	12481.2	6869.7	2506.9	2257.6	2235.9	2180.2	2102.8	2054.3	2039.9	2039.9
42.5°	14586.4	12338.3	5918.8	2308.5	2172.9	2136.7	2044.7	1955.1	1918.9	1916.5	1914.1
45°	15104.1	12396.5	5013.8	2199.6	2095.5	2025.4	1904.4	1829.4	1805.2	1810.0	1807.6
47.5°	16033.3	12761.8	4239.4	2127.0	2018.1	1926.2	1790.6	1730.2	1701.1	1701.1	1703.5
50°	17613.4	13616.0	3622.4	2066.5	1952.7	1834.2	1708.4	1633.4	1594.6	1592.2	1592.2
52.5°	19914.6	15145.3	3237.6	2015.7	1880.1	1751.9	1626.1	1531.7	1485.7	1476.0	1471.2
55°	22799.0	17337.6	3131.2	1981.8	1783.4	1662.3	1526.9	1432.5	1381.7	1359.9	1357.5
57.5°	26024.6	20004.1	3341.6	1940.7	1684.1	1555.9	1418.0	1328.5	1275.2	1248.6	1246.1
60°	29288.8	22915.1	4200.7	1882.6	1601.9	1439.8	1306.7	1224.4	1171.1	1142.2	1137.3
62.5°	32557.9	25983.4	5955.0	1877.7	1543.9	1328.5	1192.9	1122.8	1071.9	1040.5	1033.3
65°	36245.6	29342.0	7948.9	2006.0	1524.5	1226.8	1076.8	1021.2	977.6	948.5	946.2
67.5°	40480.2	33133.8	7757.7	2269.7	1589.8	1134.9	967.9	924.4	892.9	868.7	866.2
70°	42466.8	32540.9	4822.6	2456.0	1681.7	1045.4	863.8	832.4	808.2	791.3	784.0
71°	41634.4	30897.9	4043.4	2434.3	1672.0	1006.6	822.7	798.5	774.3	759.8	752.5
72.5°	39364.7	28178.1	3373.1	2264.9	1563.1	936.5	769.5	745.3	723.5	706.6	701.7
75°	35323.6	25165.5	2700.5	1810.0	1246.1	791.3	675.1	648.5	631.6	621.9	612.2
77.5°	25966.4	17959.5	2088.3	1430.1	917.1	646.1	575.9	556.5	539.6	525.1	517.8
80°	9947.6	6956.8	1405.9	1067.1	672.7	510.6	464.6	454.9	438.0	428.3	428.3
82.5°	2678.7	2078.6	750.1	646.1	450.0	372.6	355.7	350.8	336.4	317.0	319.4
85°	1084.0	917.1	421.1	355.7	275.8	220.2	239.6	242.0	225.1	200.8	203.3
87.5°	476.7	389.6	234.7	157.2	121.0	84.7	108.9	108.9	99.2	82.3	75.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)