

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: P383556

Luminaire Tested: **GLEON-SA8C-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43738 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

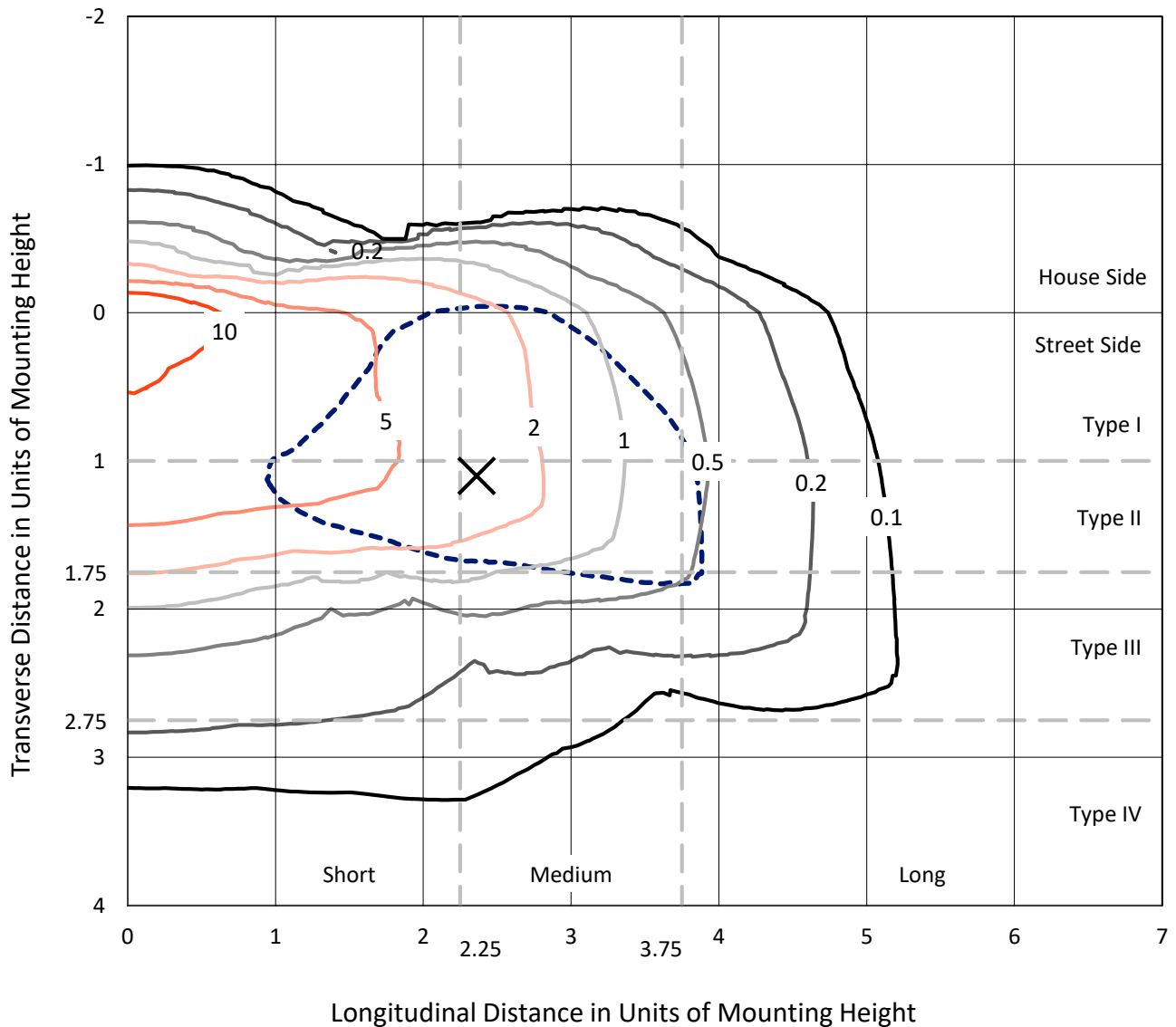
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

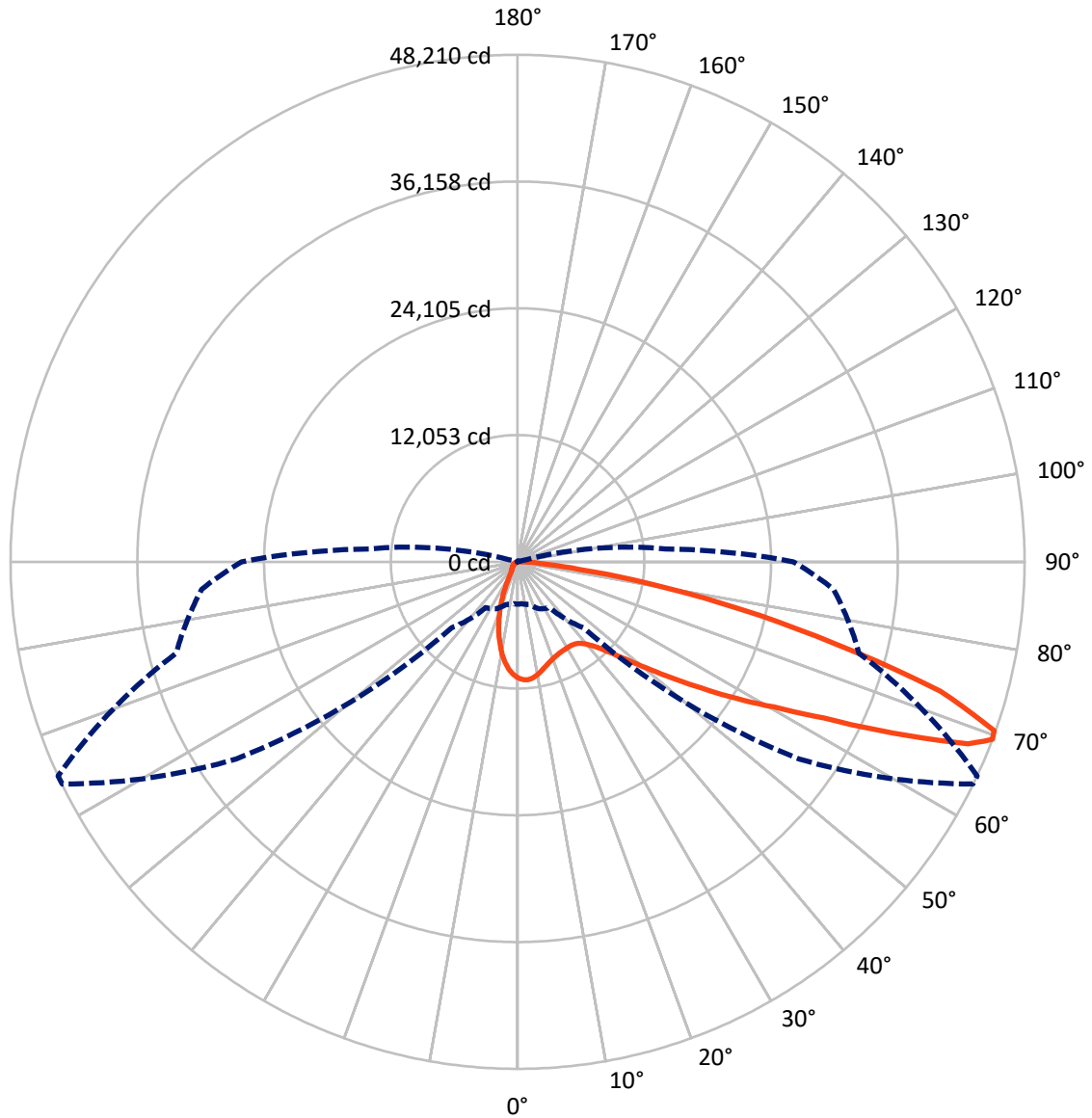
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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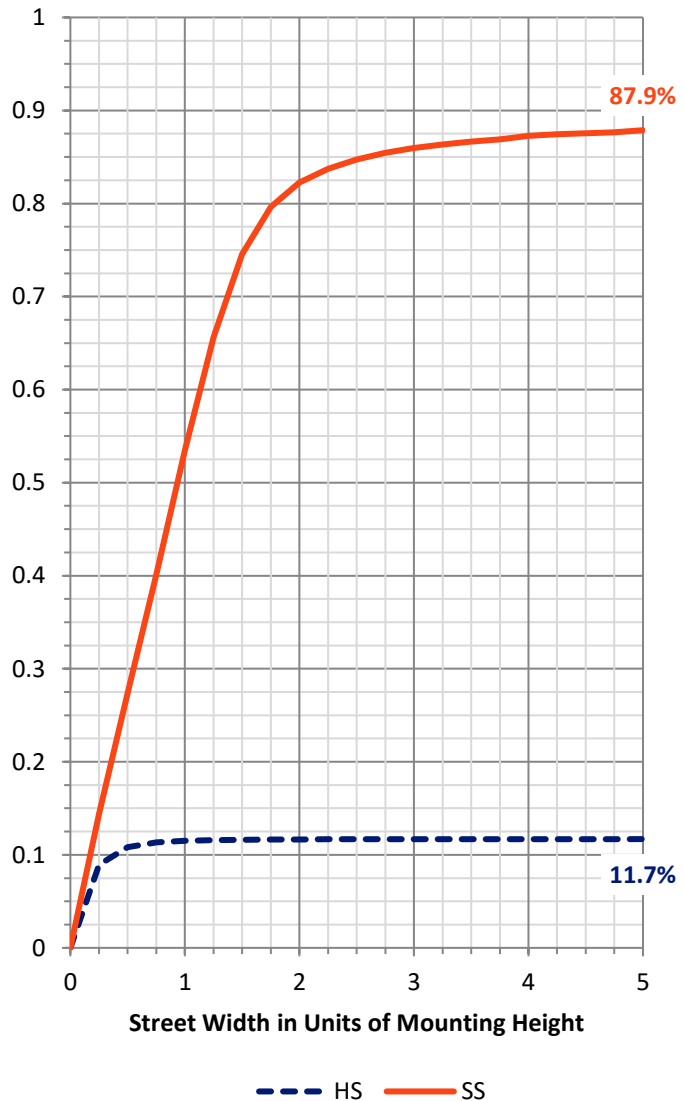
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5155.7	0.0	5155.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	38582.4	0.0	38582.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	43738.0	0.0	43738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.2	2.1
10°-20°	2023.2	4.6
20°-30°	2802.2	6.4
30°-40°	3907.1	8.9
40°-50°	6073.0	13.9
50°-60°	9749.5	22.3
60°-70°	11028.3	25.2
70°-80°	6477.0	14.8
80°-90°	753.5	1.7
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°	43738.0	100.0
0°-180°	43738.0	100.0

Coefficient of Utilization



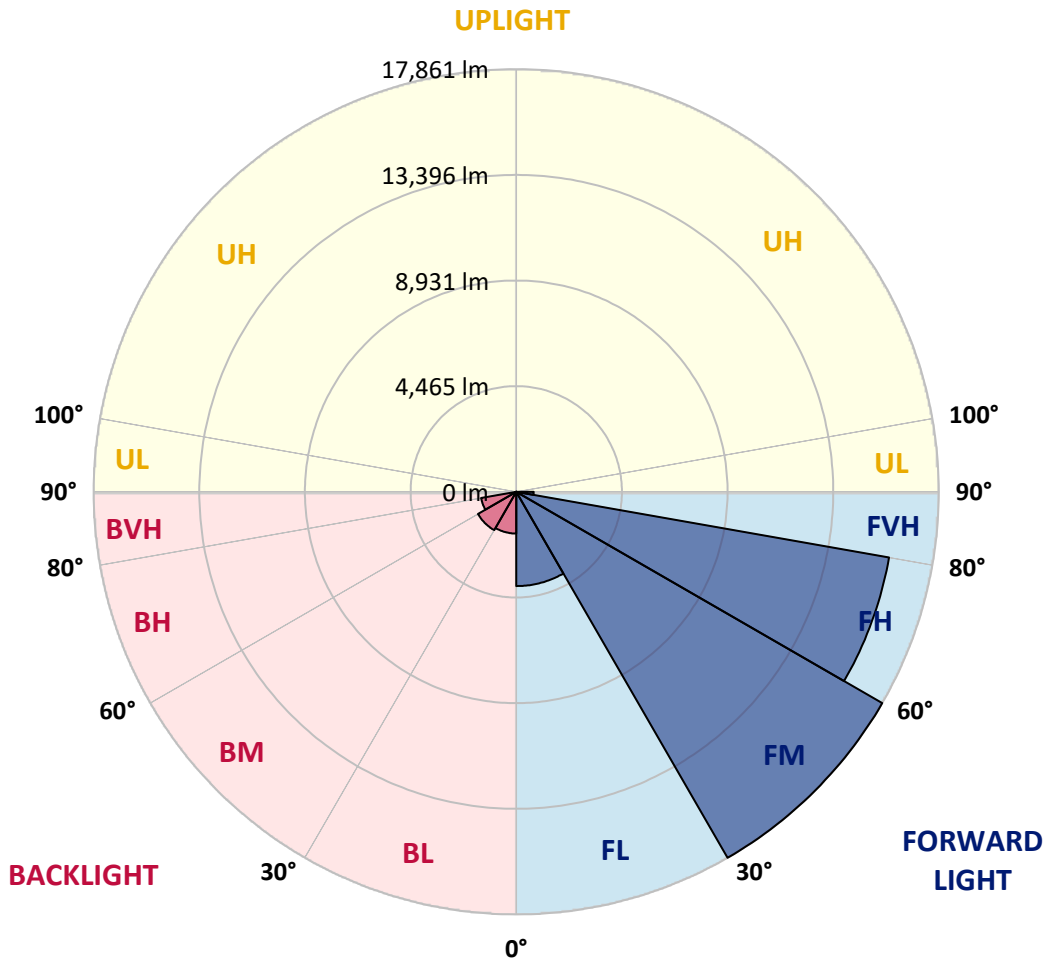
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3985.6	9.1			
FM (30°-60°)	17861.4	40.8			
FH (60°-80°)	15998.9	36.6			G5
FVH (80°-90°)	736.5	1.7			G4/750
BL (0°-30°)	1764.1	4.0	B3/2500		
BM (30°-60°)	1868.3	4.3	B2/2500		
BH (60°-80°)	1506.4	3.4	B3/2500		G3/2500
BVH (80°-90°)	16.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7
2.5°	11150.8	11123.0	11145.2	11193.3	11217.4	11217.4	11235.9	11213.7	11221.0	11167.4	11089.7
5°	10453.0	10410.5	10471.5	10606.6	10773.3	10915.7	11126.7	11237.7	11248.8	11250.7	11160.0
7.5°	9701.6	9662.8	9753.5	9912.6	10127.3	10392.0	10760.2	11082.2	11100.8	11274.8	11208.1
10°	9090.9	9063.1	9168.6	9338.9	9590.6	9886.7	10338.3	10786.2	10839.9	11224.8	11200.7
12.5°	8606.0	8583.7	8683.7	8879.9	9137.2	9464.7	9936.6	10456.7	10528.9	11111.9	11163.8
15°	8252.5	8248.8	8332.0	8520.9	8805.8	9111.3	9594.3	10151.4	10234.6	10989.7	11158.2
17.5°	8067.4	8073.0	8134.1	8295.1	8539.4	8842.9	9305.6	9894.1	9984.8	10880.6	11185.9
20°	8048.9	8054.4	8087.8	8178.4	8376.5	8644.9	9070.5	9677.6	9771.9	10799.2	11230.4
22.5°	8211.8	8208.1	8217.4	8208.1	8319.1	8522.7	8915.1	9511.0	9620.2	10745.5	11265.5
25°	8524.6	8519.0	8515.3	8446.8	8372.7	8482.0	8850.3	9416.6	9520.2	10706.6	11285.9
27.5°	8959.4	8955.8	8950.2	8837.3	8615.2	8546.8	8857.7	9381.4	9468.4	10675.2	11282.2
30°	9531.3	9557.3	9549.9	9392.5	9046.4	8744.8	8935.4	9363.0	9438.8	10614.1	11243.3
32.5°	10203.1	10255.0	10295.7	10127.3	9694.2	9137.2	9114.9	9383.3	9438.8	10567.8	11173.0
35°	10900.9	10967.6	11117.5	11058.2	10488.2	9727.5	9424.0	9505.4	9551.7	10593.7	11139.6
37.5°	11587.5	11667.2	11992.8	12165.0	11528.3	10508.5	9905.2	9807.1	9831.2	10751.0	11176.7
40°	12385.2	12505.5	12999.7	13277.3	12770.2	11554.3	10625.1	10325.4	10334.6	11097.1	11348.8
42.5°	13432.7	13556.7	14091.6	14526.6	14169.3	12875.7	11602.3	11117.5	11108.2	11744.9	11754.1
45°	14709.8	14839.3	15392.7	15875.7	15714.7	14441.4	12853.5	12274.2	12263.1	12766.5	12522.1
47.5°	16157.0	16284.8	16778.8	17276.8	17450.7	16269.9	14446.9	13852.9	13827.0	14186.0	13708.5
50°	17398.9	17482.2	17937.5	18607.5	19392.1	18516.7	16429.1	15857.2	15829.4	16071.9	15450.1
52.5°	17850.5	17898.6	18361.3	19299.6	21257.7	21559.4	19033.1	18296.5	18276.1	18381.7	17769.1
55°	16936.2	17023.2	17591.3	18983.2	22268.2	24998.1	22320.1	21317.0	21163.4	20935.7	20193.5
57.5°	14445.1	14583.9	15194.7	17045.4	21796.3	27726.1	27150.5	24733.4	24507.6	23115.9	22164.6
60°	10823.2	10993.5	11500.5	13497.5	19277.4	28697.7	32428.8	28540.4	28031.5	24851.8	23976.5
62.5°	7427.0	7512.2	7856.4	9157.5	14197.1	27106.1	36844.8	33639.2	32710.2	26739.6	25936.4
65°	5672.6	5702.2	5842.9	6290.7	8454.3	22018.3	38601.1	40366.7	39243.3	28997.6	27970.4
67.5°	4571.4	4547.3	4741.6	5382.0	5661.5	13432.7	36552.3	46731.5	46205.8	32016.1	30017.3
69°	4030.9	3997.6	4195.7	4939.6	5317.2	8879.9	32676.8	48176.8	48210.2	33609.6	30157.9
70°	3627.4	3649.7	3845.9	4676.8	5200.6	6969.9	28975.3	47808.5	48071.4	34205.6	29314.0
72.5°	2422.7	2481.8	2876.1	3882.9	5000.7	5274.6	17495.1	41025.5	42036.1	32863.8	25149.8
75°	1365.8	1410.3	1878.5	2927.9	4712.0	5022.9	9240.8	30224.6	31201.8	27481.8	19394.0
77.5°	670.0	694.0	1062.3	1889.6	3940.3	4786.0	5241.4	20530.4	21646.4	17937.5	10969.3
80°	283.2	296.1	531.2	1166.0	2816.8	4567.7	3892.1	12635.0	12773.8	7027.3	2922.4
82.5°	109.2	112.9	223.9	727.4	1789.7	3560.8	3255.5	5990.9	5846.5	1323.3	666.2
85°	12.9	14.8	81.4	436.8	995.7	1832.3	2644.8	2581.8	2389.3	262.8	342.3
87.5°	0.0	0.0	5.6	133.2	296.1	858.8	1375.2	1071.6	966.1	85.1	177.6
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°	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7	11052.7
2.5°	11025.0	11006.4	10906.5	10762.1	10625.1	10454.9	10292.0	10193.9	10116.2	10064.3	10125.5
5°	11054.5	10973.1	10669.6	10280.9	9899.6	9470.3	9070.5	8731.9	8598.6	8450.5	8517.1
7.5°	11045.3	10891.7	10345.7	9653.5	8953.9	8230.3	7545.5	7018.0	6744.1	6475.7	6544.2
10°	10999.0	10739.9	9912.6	8887.3	7839.8	6799.6	5828.0	5089.6	4676.8	4303.0	4356.7
12.5°	10897.2	10536.4	9401.8	8010.0	6609.1	5237.6	4099.4	3153.7	2646.5	2422.7	2450.4
15°	10836.1	10338.3	8861.3	7121.7	5295.0	3647.8	2506.0	1863.7	1632.4	1558.3	1567.6
17.5°	10806.5	10147.6	8302.4	6105.6	3951.3	2322.7	1619.4	1428.8	1378.8	1365.8	1369.6
20°	10776.9	9955.2	7726.9	5100.7	2722.4	1562.0	1330.7	1275.2	1256.7	1240.0	1243.7
22.5°	10727.0	9770.1	7108.7	4082.8	1836.0	1267.7	1199.3	1145.6	1106.8	1086.4	1090.1
25°	10665.8	9575.8	6477.6	3040.8	1339.9	1130.8	1066.1	990.1	943.8	906.9	908.7
27.5°	10567.8	9337.0	5826.2	2213.5	1125.2	1012.4	925.4	842.1	764.3	721.8	721.8
30°	10430.8	9066.8	5102.6	1584.3	1008.7	895.8	790.2	686.6	603.4	564.5	560.8
32.5°	10279.1	8785.5	4371.5	1201.1	916.1	786.6	666.2	557.1	483.0	451.6	449.8
35°	10149.5	8482.0	3642.3	1006.8	823.6	681.1	549.7	457.1	398.0	372.0	370.1
37.5°	10066.2	8178.4	2931.6	899.5	740.3	583.0	460.8	377.6	335.0	314.6	312.8
40°	10053.3	7952.7	2282.0	818.0	662.6	496.0	384.9	320.2	281.3	259.1	257.3
42.5°	10221.7	7823.1	1750.8	749.5	583.0	420.1	327.6	273.9	233.2	211.0	209.1
45°	10664.0	7863.8	1347.4	688.5	503.4	355.4	277.6	227.7	190.6	174.0	170.3
47.5°	11471.0	8145.2	1071.6	627.4	427.5	301.6	236.9	188.7	157.3	140.7	138.8
50°	12907.2	8805.8	895.8	560.8	357.2	257.3	196.2	153.6	127.7	112.9	111.0
52.5°	14813.4	9982.9	799.5	496.0	296.1	218.4	161.0	122.1	100.0	88.9	87.0
55°	16915.9	11408.0	736.6	425.7	242.5	181.4	127.7	96.2	77.7	68.5	64.7
57.5°	18968.4	12642.5	677.3	357.2	201.8	148.0	101.8	75.9	61.1	51.8	49.9
60°	20854.3	13776.9	608.9	286.8	164.7	116.6	79.6	59.2	48.2	38.8	38.8
62.5°	22873.4	14654.3	514.5	223.9	135.1	88.9	64.7	53.7	38.8	33.3	31.5
65°	25012.9	15305.7	403.5	174.0	105.5	66.6	53.7	55.5	31.5	24.0	22.2
67.5°	26593.4	15176.1	298.0	136.9	81.4	51.8	51.8	59.2	27.8	18.5	16.7
69°	26245.5	14123.1	249.8	118.5	70.3	44.4	48.2	59.2	25.9	16.7	14.8
70°	25236.8	12957.1	220.2	105.5	62.9	40.7	46.3	57.4	24.0	16.7	14.8
72.5°	21017.1	9759.0	172.1	79.6	49.9	33.3	38.8	49.9	24.0	16.7	12.9
75°	15809.1	6246.3	131.4	57.4	37.0	25.9	29.6	37.0	24.0	14.8	12.9
77.5°	8602.3	2252.4	94.4	38.8	25.9	20.4	20.4	27.8	22.2	11.1	7.4
80°	2211.7	566.3	59.2	25.9	20.4	14.8	12.9	18.5	12.9	1.9	0.0
82.5°	546.0	127.7	31.5	18.5	14.8	5.6	5.6	9.2	5.6	0.0	0.0
85°	299.9	62.9	20.4	12.9	7.4	0.0	0.0	1.9	0.0	0.0	0.0
87.5°	153.6	18.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
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)