

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: P382661

Luminaire Tested: **GLEON-SA0C-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382661
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-SA0C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA 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: 63889.3 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

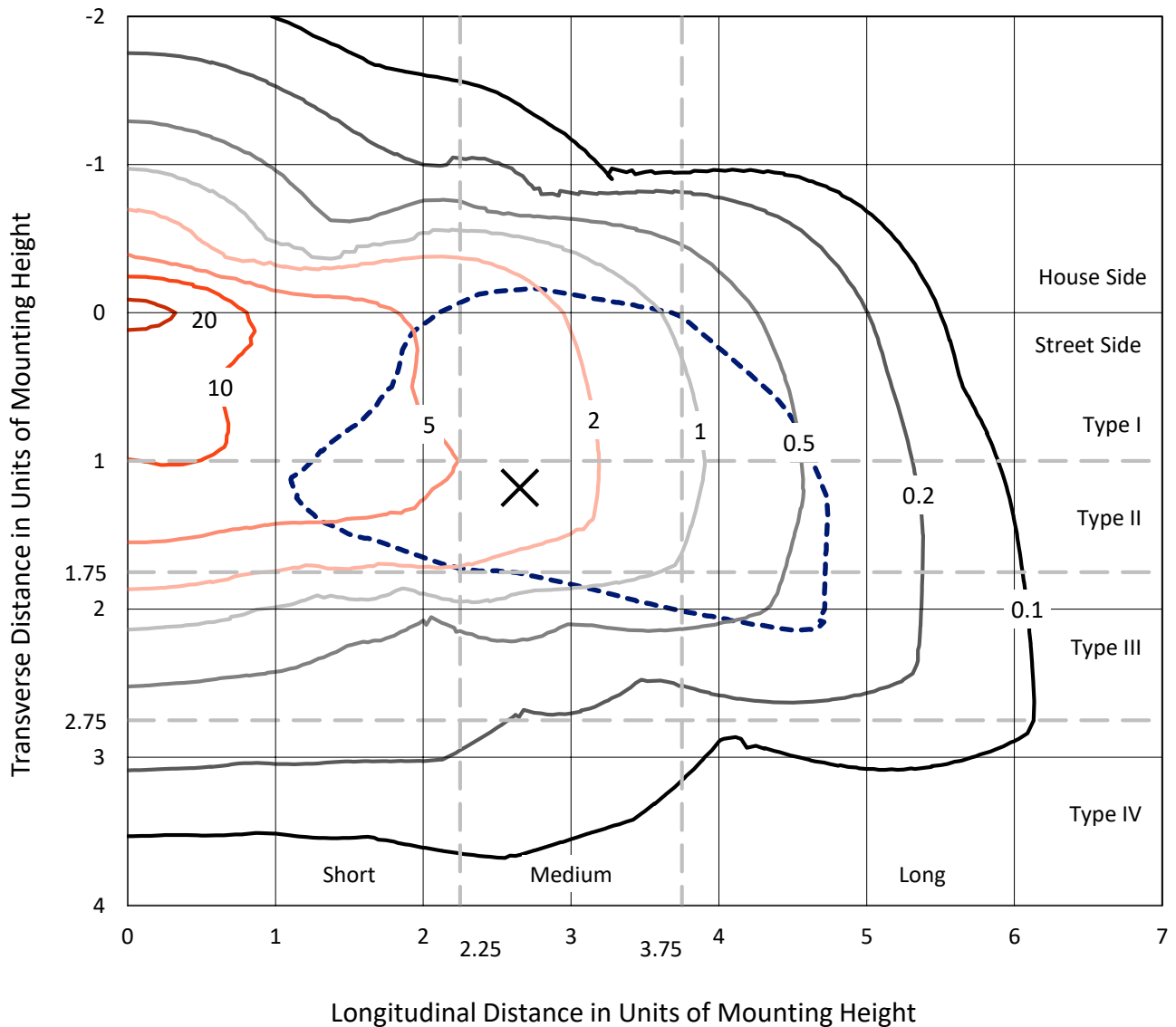
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

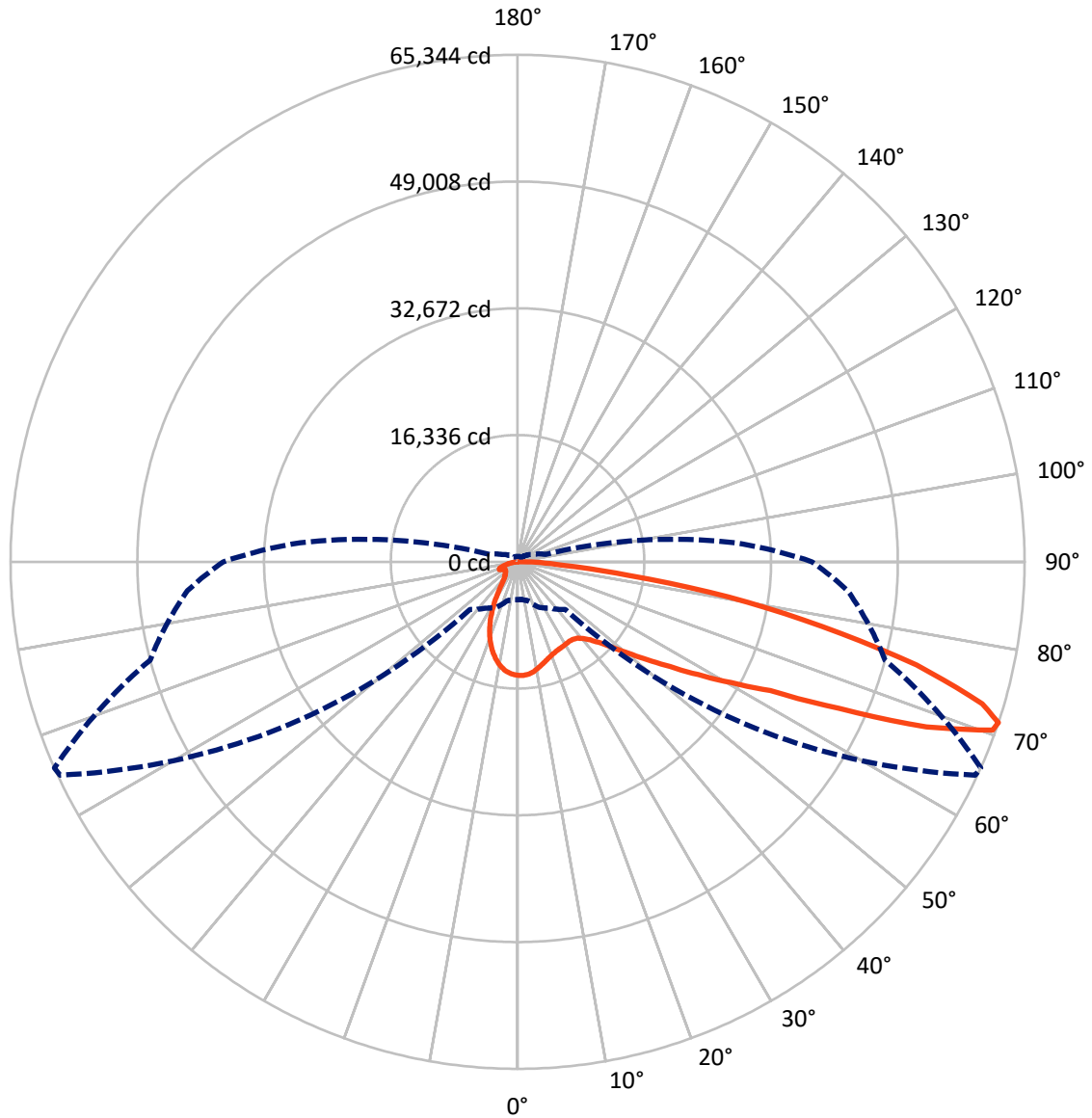
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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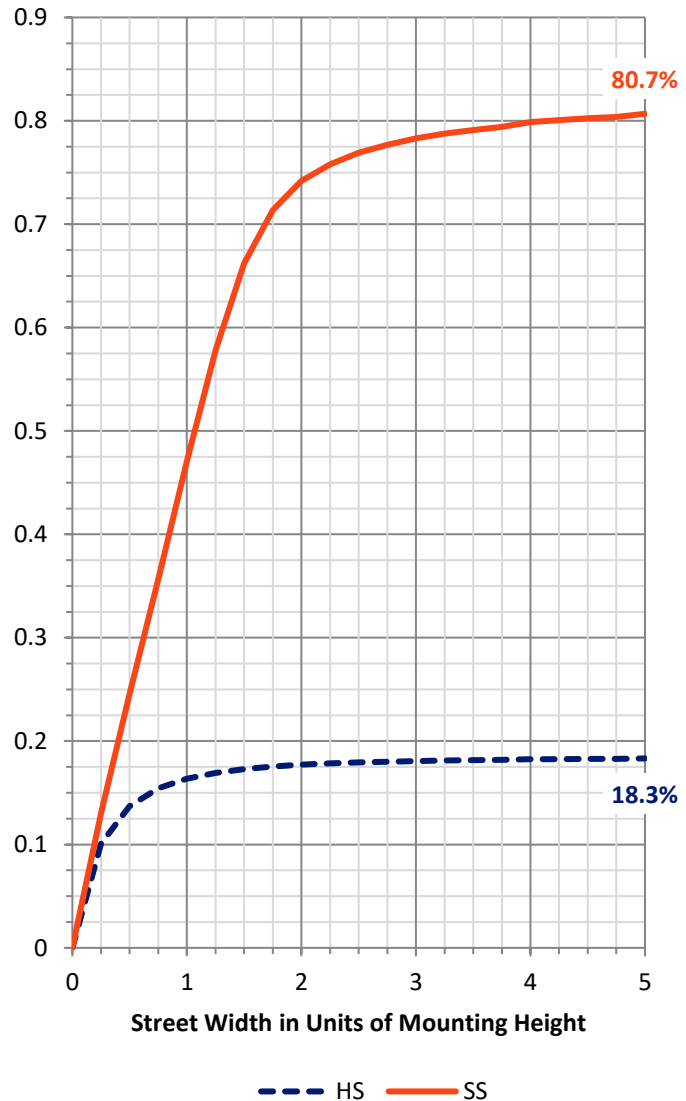
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11840.4	0.0	11840.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	52048.9	0.0	52048.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	63889.3	0.0	63889.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1288.3	2.0
10°-20°	3089.9	4.8
20°-30°	4150.5	6.5
30°-40°	5459.9	8.5
40°-50°	7942.8	12.4
50°-60°	12407.4	19.4
60°-70°	15542.3	24.3
70°-80°	11855.3	18.6
80°-90°	2152.8	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°	63889.3	100.0
0°-180°	63889.3	100.0

Coefficient of Utilization

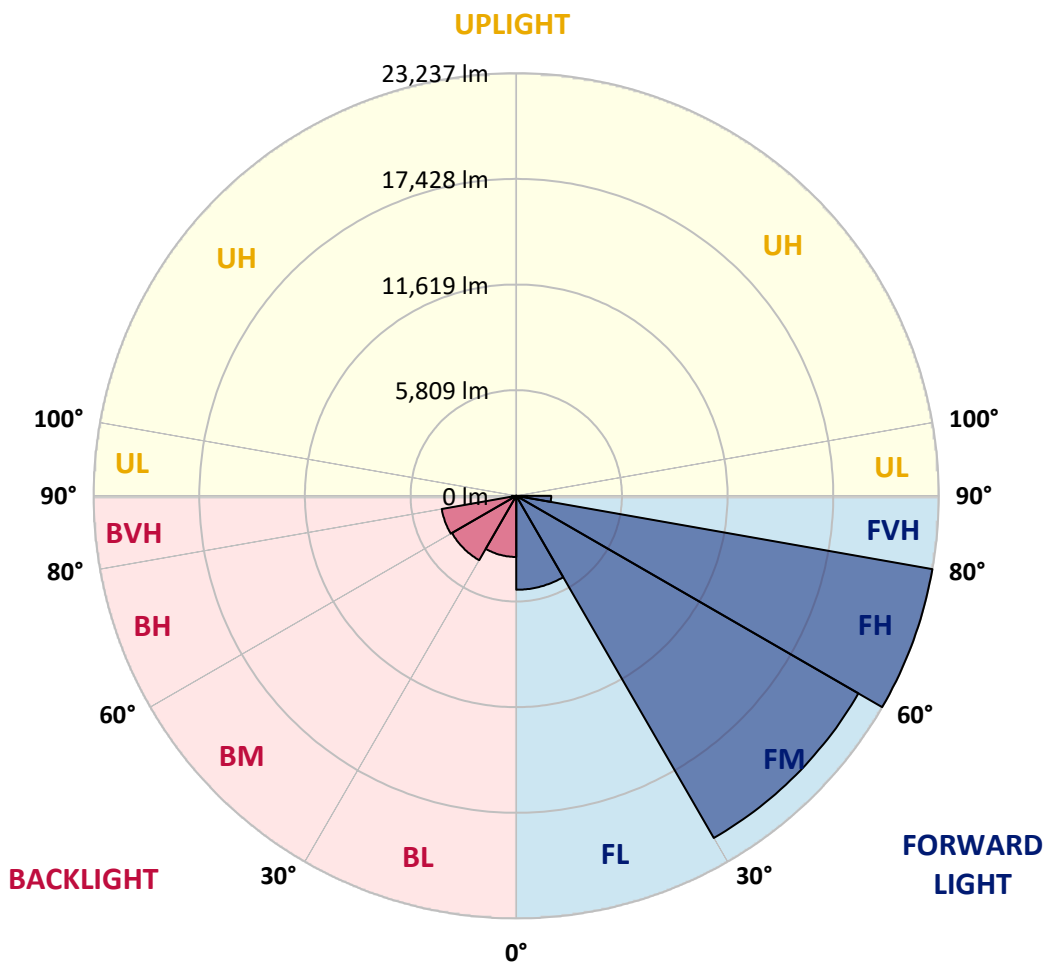


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5166.3	8.1			
FM (30°-60°)	21725.5	34.0			
FH (60°-80°)	23237.2	36.4			G5
FVH (80°-90°)	1919.8	3.0			G5
BL (0°-30°)	3362.4	5.3	B4/5000		
BM (30°-60°)	4084.6	6.4	B3/5000		
BH (60°-80°)	4160.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	233.0	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°	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8
2.5°	14364.5	14342.4	14408.6	14477.0	14503.5	14547.5	14613.7	14651.2	14649.1	14655.7	14633.6
5°	13411.6	13382.9	13515.3	13623.3	13830.7	14064.5	14349.0	14552.0	14556.4	14671.1	14702.0
7.5°	12509.4	12489.5	12641.8	12816.0	13056.4	13413.7	13874.7	14311.6	14338.0	14649.1	14757.1
10°	11785.8	11781.5	11929.2	12118.9	12399.1	12798.3	13327.7	13967.4	14007.1	14543.1	14766.0
12.5°	11221.1	11230.0	11357.9	11574.1	11869.7	12286.6	12860.1	13581.4	13645.4	14375.5	14715.2
15°	10804.3	10839.5	10943.2	11161.6	11452.7	11876.3	12465.2	13224.1	13321.1	14188.0	14686.5
17.5°	10566.0	10605.7	10678.5	10859.4	11132.9	11541.0	12099.0	12930.7	13018.9	14044.7	14688.7
20°	10495.4	10528.5	10570.5	10680.8	10912.3	11282.9	11810.1	12666.0	12760.8	13929.9	14710.8
22.5°	10634.4	10658.7	10663.1	10654.2	10795.4	11097.6	11600.6	12471.8	12573.3	13854.9	14726.3
25°	10932.2	10965.2	10941.0	10859.4	10813.0	10998.3	11492.5	12343.9	12445.4	13799.8	14695.3
27.5°	11380.0	11384.4	11364.5	11258.7	11040.2	11009.4	11459.3	12268.9	12366.0	13735.8	14631.4
30°	11988.7	12017.4	11982.1	11838.8	11481.4	11185.8	11499.1	12196.1	12284.3	13654.2	14527.7
32.5°	12701.3	12771.9	12769.7	12619.7	12107.9	11580.7	11662.3	12152.0	12220.4	13568.2	14402.0
35°	13440.2	13537.2	13718.2	13654.2	13021.1	12205.0	11975.5	12222.6	12268.9	13557.1	14313.7
37.5°	14207.9	14304.9	14677.7	14849.8	14108.6	13098.3	12469.7	12471.8	12493.9	13691.7	14307.1
40°	15010.8	15114.5	15674.8	16122.6	15518.1	14229.9	13266.0	12992.5	12968.2	14022.6	14437.3
42.5°	16135.8	16228.4	16901.2	17472.5	17082.1	15679.2	14366.7	13795.4	13744.6	14671.1	14854.2
45°	17558.6	17637.9	18352.6	18963.7	18763.0	17333.6	15749.8	14900.5	14891.6	15751.9	15699.0
47.5°	19250.4	19312.2	19954.1	20545.3	20618.0	19237.2	17487.9	16605.6	16462.2	17234.3	17007.1
50°	21012.9	21081.3	21518.0	22153.3	22693.7	21785.0	19724.7	18694.6	18502.7	19190.9	18860.0
52.5°	22179.8	22270.2	22649.6	23454.8	25027.5	24577.6	22369.5	21226.9	20935.7	21562.2	21308.5
55°	21659.2	21862.1	22442.3	23732.7	26893.7	28843.7	25631.9	24180.5	23851.8	24372.4	24222.4
57.5°	19292.4	19570.2	20362.1	22354.1	27156.2	32602.4	30564.2	27659.1	27427.5	27277.5	27345.9
60°	14966.7	15233.6	16215.2	18811.5	25327.6	35346.5	37986.9	31947.2	31612.0	30193.6	30255.4
62.5°	10592.4	10457.9	11130.7	13029.9	20580.6	35668.6	46433.1	37682.5	36579.5	33273.0	33001.7
65°	8077.8	8046.9	8349.1	8953.6	12465.2	31815.0	51464.7	47322.1	45599.3	36895.0	36255.3
67.5°	6637.4	6582.2	6880.0	7760.2	8027.1	20525.4	51574.9	58505.7	56813.8	41403.8	40018.4
70°	5457.3	5395.5	5673.4	6809.4	7418.3	10409.4	43406.7	65054.8	64964.4	47112.5	42859.6
71°	4892.6	4848.4	5181.5	6443.2	7288.1	8675.6	37477.4	65072.5	65343.8	49044.8	42692.0
72.5°	3983.8	3999.2	4352.1	5735.2	7191.1	7660.9	27544.4	62039.4	62612.9	50886.7	41167.7
75°	2647.0	2660.2	3123.5	4411.7	6972.7	7495.5	15138.8	52058.0	53112.4	49783.8	37565.6
77.5°	1778.0	1773.5	2088.9	3026.4	6074.9	7495.5	8876.3	38935.4	40093.4	39612.6	28960.6
80°	1224.2	1215.4	1438.2	2088.9	4599.2	7585.9	6862.4	27286.3	27637.1	21392.3	11770.4
82.5°	750.0	756.6	939.7	1475.8	3130.1	6827.1	6478.5	14878.4	14496.8	5999.9	2940.4
85°	430.1	428.0	600.0	999.3	2009.5	5761.7	6317.6	6403.6	5874.2	1806.6	1063.2
87.5°	154.5	165.4	322.0	553.7	1151.5	4012.5	5360.2	3330.8	3002.2	816.1	480.9
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°	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8	14635.8
2.5°	14618.1	14631.4	14616.0	14527.7	14452.7	14331.4	14263.0	14168.2	14139.5	14126.3	14161.6
5°	14673.3	14677.7	14547.5	14315.9	14055.7	13749.1	13528.5	13257.1	13129.2	13074.1	13109.4
7.5°	14724.0	14704.2	14419.6	13976.3	13495.3	12961.6	12487.3	12052.7	11799.1	11695.4	11704.2
10°	14730.7	14646.8	14190.2	13504.2	12758.7	11975.5	11247.6	10577.1	10153.5	9877.8	9961.6
12.5°	14662.3	14521.1	13852.7	12893.2	11858.6	10791.0	9807.2	8801.4	8197.0	7916.8	7925.6
15°	14609.4	14353.5	13438.0	12174.0	10784.3	9370.4	8027.1	6844.7	6200.7	5913.8	5779.3
17.5°	14565.2	14172.6	12957.2	11364.5	9516.0	7722.6	6108.0	5053.6	4700.7	4616.8	4581.5
20°	14503.5	13980.7	12421.2	10427.0	8071.2	5878.6	4460.2	3939.6	3941.8	4038.9	4052.1
22.5°	14417.4	13762.3	11849.8	9374.8	6520.5	4281.6	3496.3	3346.3	3498.4	3683.8	3716.9
25°	14289.5	13504.2	11214.5	8212.3	4971.9	3291.2	2986.7	2980.1	3165.4	3359.5	3388.2
27.5°	14108.6	13166.7	10508.7	6963.9	3663.9	2797.0	2675.7	2722.0	2858.7	3000.0	3010.9
30°	13866.0	12774.0	9730.0	5646.9	2872.1	2490.4	2477.2	2519.1	2602.9	2702.1	2711.0
32.5°	13599.0	12374.8	8898.4	4372.0	2459.6	2325.0	2338.2	2358.0	2397.7	2437.5	2446.2
35°	13356.4	11966.8	8046.9	3322.0	2263.2	2216.9	2208.0	2203.7	2208.0	2194.8	2197.1
37.5°	13199.8	11629.3	7160.2	2644.8	2150.7	2122.1	2095.5	2062.4	2025.0	2002.9	2007.3
40°	13142.5	11377.7	6262.4	2285.3	2058.1	2038.2	1987.5	1916.8	1872.8	1859.6	1859.6
42.5°	13296.8	11247.6	5395.5	2104.4	1980.8	1947.8	1863.9	1782.3	1749.3	1747.0	1744.8
45°	13768.9	11300.5	4570.5	2005.2	1910.2	1846.3	1736.0	1667.7	1645.6	1650.0	1647.7
47.5°	14616.0	11633.6	3864.6	1938.9	1839.7	1755.9	1632.4	1577.2	1550.7	1550.7	1552.9
50°	16056.3	12412.3	3302.1	1883.8	1780.1	1672.0	1557.4	1489.0	1453.7	1451.4	1451.4
52.5°	18154.1	13806.4	2951.4	1837.5	1714.0	1597.0	1482.4	1396.3	1354.4	1345.5	1341.1
55°	20783.5	15804.9	2854.4	1806.6	1625.7	1515.4	1391.9	1305.8	1259.5	1239.7	1237.5
57.5°	23723.9	18235.7	3046.3	1769.1	1535.3	1418.4	1292.6	1211.0	1162.5	1138.3	1136.0
60°	26699.6	20889.4	3829.3	1716.2	1460.3	1312.5	1191.2	1116.2	1067.6	1041.2	1036.7
62.5°	29679.7	23686.4	5428.6	1711.7	1407.3	1211.0	1087.5	1023.5	977.2	948.5	941.9
65°	33041.3	26748.1	7246.2	1828.6	1389.7	1118.3	981.6	930.9	891.1	864.7	862.5
67.5°	36901.6	30204.7	7071.9	2069.1	1449.2	1034.6	882.4	842.7	814.0	791.9	789.7
70°	38712.6	29664.2	4396.3	2239.0	1533.0	952.9	787.5	758.8	736.8	721.3	714.7
71°	37953.8	28166.5	3685.9	2219.0	1524.2	917.7	750.0	727.9	705.8	692.6	686.0
72.5°	35884.7	25687.1	3074.9	2064.7	1425.0	853.7	701.5	679.4	659.5	644.1	639.7
75°	32201.0	22940.9	2461.7	1650.0	1136.0	721.3	615.5	591.2	575.7	566.9	558.1
77.5°	23670.9	16371.8	1903.6	1303.7	836.0	588.9	525.0	507.3	492.0	478.6	472.0
80°	9068.2	6341.8	1281.6	972.8	613.2	465.4	423.5	414.7	399.3	390.4	390.4
82.5°	2441.9	1894.9	683.8	588.9	410.3	339.7	324.3	319.9	306.6	289.0	291.2
85°	988.2	836.0	383.8	324.3	251.4	200.7	218.4	220.6	205.1	183.0	185.3
87.5°	434.6	355.1	214.0	143.4	110.3	77.2	99.3	99.3	90.5	75.0	68.4
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)