

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: P383697

Luminaire Tested: **GLEON-SA9D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383697
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-SA9D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 63300.5 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

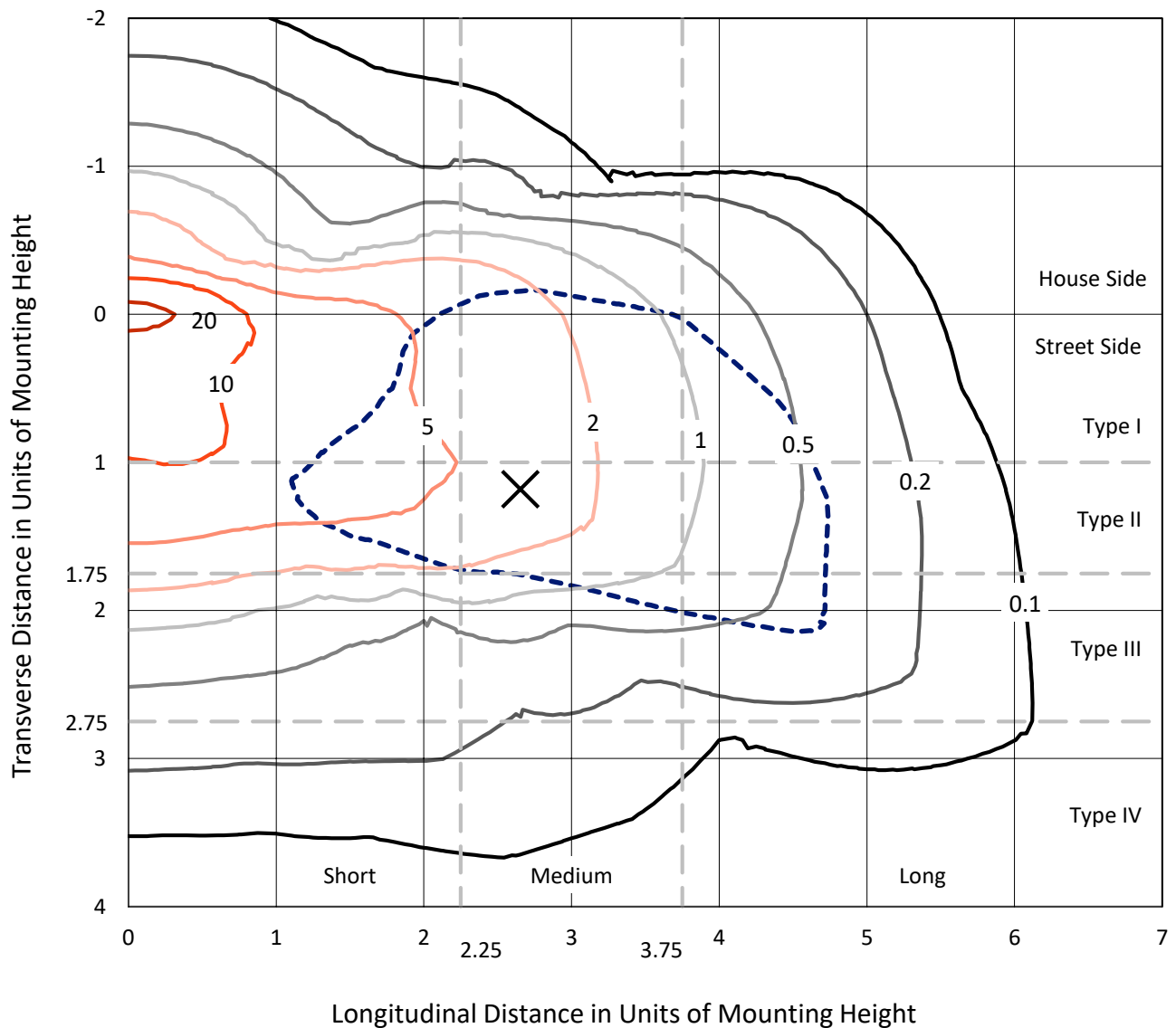
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

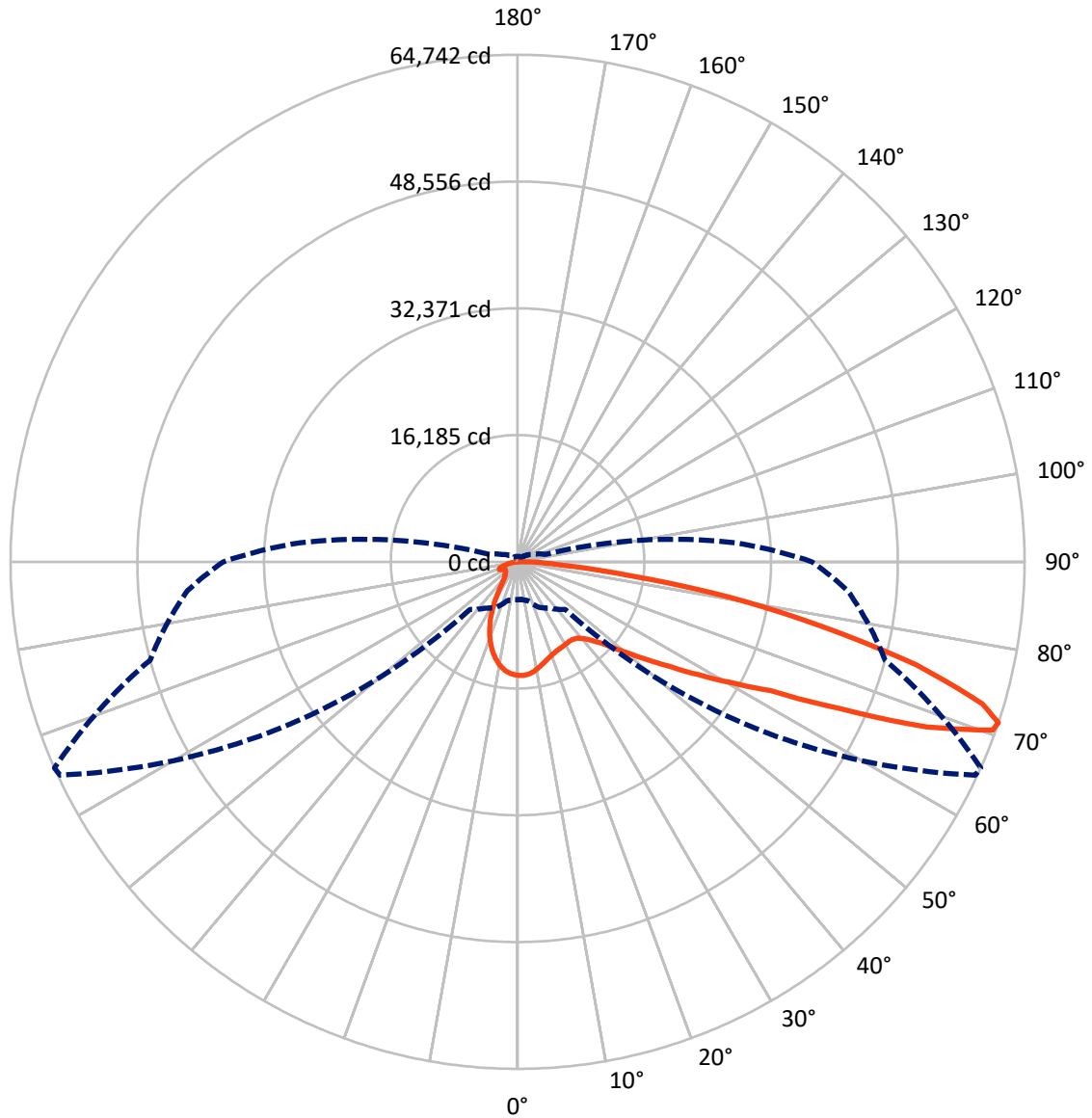
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 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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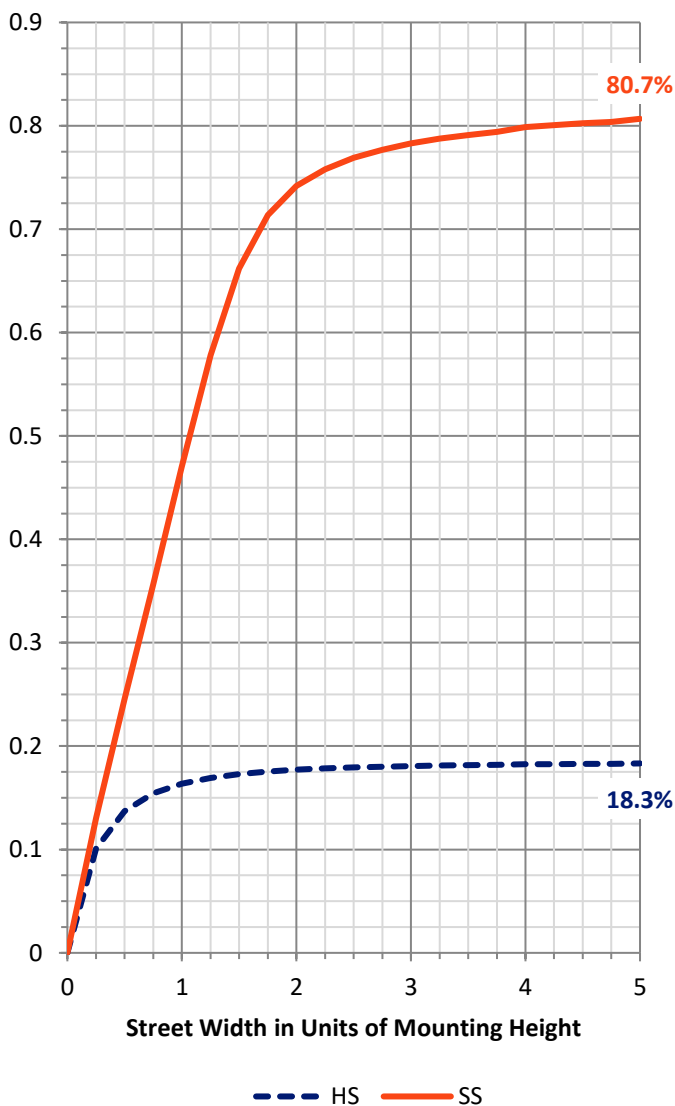
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11731.3	0.0	11731.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	51569.2	0.0	51569.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	63300.5	0.0	63300.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1276.4	2.0
10°-20°	3061.4	4.8
20°-30°	4112.3	6.5
30°-40°	5409.6	8.5
40°-50°	7869.6	12.4
50°-60°	12293.1	19.4
60°-70°	15399.1	24.3
70°-80°	11746.1	18.6
80°-90°	2133.0	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°	63300.5	100.0
0°-180°	63300.5	100.0

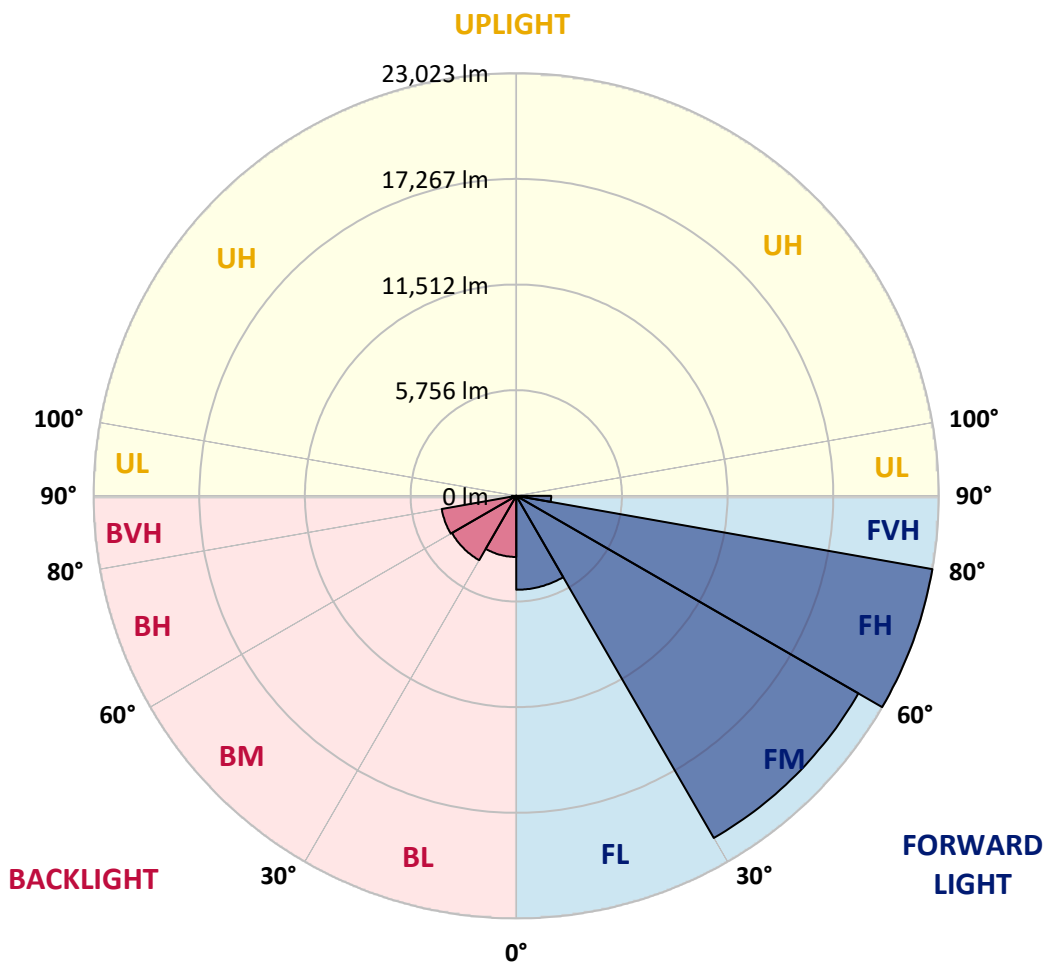


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5118.7	8.1			
FM (30°-60°)	21525.3	34.0			
FH (60°-80°)	23023.1	36.4			G5
FVH (80°-90°)	1902.1	3.0			G5
BL (0°-30°)	3331.4	5.3	B4/5000		
BM (30°-60°)	4046.9	6.4	B3/5000		
BH (60°-80°)	4122.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	230.9	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°	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9
2.5°	14232.1	14210.3	14275.8	14343.6	14369.8	14413.5	14479.0	14516.2	14514.1	14520.6	14498.7
5°	13288.0	13259.6	13390.7	13497.8	13703.3	13934.8	14216.8	14417.8	14422.2	14535.9	14566.5
7.5°	12394.1	12374.4	12525.2	12697.8	12936.1	13290.1	13746.9	14179.6	14205.9	14514.1	14621.1
10°	11677.2	11672.9	11819.3	12007.3	12284.8	12680.4	13204.9	13838.7	13878.0	14409.2	14629.9
12.5°	11117.7	11126.5	11253.3	11467.4	11760.3	12173.4	12741.6	13456.2	13519.6	14243.0	14579.6
15°	10704.7	10739.6	10842.4	11058.8	11347.2	11766.8	12350.4	13102.2	13198.4	14057.2	14551.1
17.5°	10468.6	10508.0	10580.1	10759.3	11030.4	11434.7	11987.6	12811.5	12899.0	13915.2	14553.4
20°	10398.7	10431.5	10473.0	10582.3	10811.7	11178.9	11701.3	12549.3	12643.2	13801.5	14575.3
22.5°	10536.4	10560.4	10564.8	10556.0	10695.9	10995.3	11493.6	12356.9	12457.5	13727.3	14590.6
25°	10831.5	10864.2	10840.1	10759.3	10713.4	10897.0	11386.6	12230.2	12330.7	13672.6	14559.9
27.5°	11275.1	11279.5	11259.8	11154.9	10938.5	10908.0	11353.8	12155.9	12252.0	13609.3	14496.6
30°	11878.3	11906.7	11871.7	11729.7	11375.6	11082.8	11393.1	12083.8	12171.1	13528.4	14393.8
32.5°	12584.2	12654.1	12652.0	12503.3	11996.3	11474.0	11554.8	12040.1	12107.8	13443.2	14269.3
35°	13316.4	13412.5	13591.7	13528.4	12901.1	12092.5	11865.2	12109.9	12155.9	13432.2	14181.9
37.5°	14076.9	14173.1	14542.5	14713.0	13978.6	12977.6	12354.7	12356.9	12378.8	13565.5	14175.3
40°	14872.4	14975.2	15530.3	15974.0	15375.1	14098.8	13143.7	12872.7	12848.6	13893.4	14304.2
42.5°	15987.0	16078.9	16745.5	17311.5	16924.6	15534.7	14234.3	13668.2	13618.0	14535.9	14717.3
45°	17396.7	17475.5	18183.5	18788.9	18590.1	17173.8	15604.6	14763.2	14754.4	15606.8	15554.3
47.5°	19073.1	19134.3	19770.2	20355.9	20428.1	19059.9	17326.8	16452.6	16310.6	17075.5	16850.4
50°	20819.3	20887.0	21319.8	21949.2	22484.7	21584.2	19542.9	18522.2	18332.1	19014.0	18686.2
52.5°	21975.4	22065.0	22440.9	23238.7	24796.9	24351.0	22163.4	21031.3	20742.8	21363.5	21112.1
55°	21459.6	21660.7	22235.5	23514.0	26645.9	28577.8	25395.8	23957.6	23632.1	24147.8	23999.2
57.5°	19114.5	19390.0	20174.5	22148.1	26905.9	32302.0	30282.6	27404.3	27174.7	27026.2	27093.9
60°	14828.7	15093.2	16065.7	18638.1	25094.1	35020.8	37636.9	31652.9	31320.7	29915.4	29976.5
62.5°	10494.9	10361.5	11028.1	12909.9	20390.9	35339.8	46005.2	37335.2	36242.5	32966.4	32697.6
65°	8003.4	7972.7	8272.2	8871.0	12350.4	31521.7	50990.4	46886.0	45179.0	36555.0	35921.2
67.5°	6576.3	6521.6	6816.6	7688.6	7953.1	20336.2	51099.7	57966.6	56290.3	41022.2	39649.7
70°	5407.0	5345.8	5621.1	6746.7	7349.9	10313.4	43006.7	64455.4	64365.7	46678.4	42464.7
71°	4847.5	4803.8	5133.8	6383.9	7221.0	8595.7	37132.0	64472.9	64741.6	48592.9	42298.6
72.5°	3947.1	3962.3	4312.0	5682.3	7124.8	7590.3	27290.6	61467.7	62035.9	50417.8	40788.4
75°	2622.6	2635.7	3094.7	4371.0	6908.5	7426.4	14999.2	51578.3	52622.9	49325.0	37219.4
77.5°	1761.6	1757.2	2069.7	2998.6	6018.9	7426.4	8794.6	38576.6	39724.0	39247.6	28693.7
80°	1213.0	1204.2	1425.0	2069.7	4556.9	7516.0	6799.2	27034.9	27382.4	21195.1	11662.0
82.5°	743.1	749.6	931.0	1462.2	3101.2	6764.2	6418.8	14741.4	14363.3	5944.6	2913.3
85°	426.2	423.9	594.4	990.0	1991.0	5708.6	6259.3	6344.6	5820.0	1790.0	1053.4
87.5°	153.0	164.0	319.1	548.6	1140.9	3975.5	5310.8	3300.1	2974.5	808.7	476.5
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°	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9	14500.9
2.5°	14483.4	14496.6	14481.3	14393.8	14319.6	14199.3	14131.6	14037.6	14009.2	13996.0	14031.1
5°	14538.1	14542.5	14413.5	14184.0	13926.2	13622.3	13403.8	13135.0	13008.2	12953.5	12988.6
7.5°	14588.3	14568.7	14286.8	13847.5	13371.0	12842.1	12372.3	11941.7	11690.4	11587.6	11596.4
10°	14594.9	14511.8	14059.5	13379.7	12641.0	11865.2	11144.0	10479.5	10060.0	9786.7	9869.8
12.5°	14527.1	14387.3	13725.0	12774.4	11749.3	10691.6	9716.8	8720.2	8121.4	7843.8	7852.6
15°	14474.7	14221.2	13314.1	12061.9	10685.0	9284.1	7953.1	6781.7	6143.5	5859.3	5726.0
17.5°	14431.0	14042.0	12837.8	11259.8	9428.3	7651.5	6051.7	5007.1	4657.4	4574.3	4539.3
20°	14369.8	13851.8	12306.7	10331.0	7996.8	5824.4	4419.1	3903.4	3905.5	4001.6	4014.8
22.5°	14284.5	13635.4	11740.6	9288.5	6460.4	4242.1	3464.1	3315.5	3466.2	3649.8	3682.6
25°	14157.8	13379.7	11111.2	8136.7	4926.1	3260.8	2959.2	2952.6	3136.2	3328.5	3356.9
27.5°	13978.6	13045.4	10411.8	6899.7	3630.1	2771.3	2651.0	2696.9	2832.5	2972.3	2983.2
30°	13738.2	12656.4	9640.3	5595.0	2845.5	2467.5	2454.3	2495.9	2578.9	2677.3	2686.0
32.5°	13473.7	12260.8	8816.4	4331.7	2436.8	2303.5	2316.7	2336.3	2375.6	2415.0	2423.7
35°	13233.3	11856.5	7972.7	3291.4	2242.3	2196.4	2187.7	2183.4	2187.7	2174.6	2176.7
37.5°	13078.2	11522.0	7094.2	2620.4	2130.9	2102.5	2076.2	2043.4	2006.3	1984.5	1988.9
40°	13021.4	11272.9	6204.7	2264.2	2039.1	2019.4	1969.2	1899.2	1855.5	1842.4	1842.4
42.5°	13174.3	11144.0	5345.8	2085.0	1962.6	1929.8	1846.8	1765.9	1733.1	1730.9	1728.8
45°	13642.0	11196.5	4528.4	1986.6	1892.6	1829.3	1720.0	1652.3	1630.4	1634.8	1632.5
47.5°	14481.3	11526.4	3829.0	1921.0	1822.8	1739.7	1617.3	1562.7	1536.4	1536.4	1538.6
50°	15908.4	12297.9	3271.7	1866.4	1763.7	1656.7	1543.0	1475.2	1440.3	1438.0	1438.0
52.5°	17986.8	13679.1	2924.2	1820.5	1698.1	1582.3	1468.7	1383.4	1341.9	1333.1	1328.8
55°	20592.0	15659.2	2828.1	1790.0	1610.7	1501.5	1379.1	1293.8	1247.9	1228.2	1226.1
57.5°	23505.3	18067.7	3018.2	1752.8	1521.1	1405.3	1280.7	1199.8	1151.8	1127.7	1125.6
60°	26453.5	20696.8	3794.1	1700.4	1446.8	1300.3	1180.2	1105.8	1057.8	1031.6	1027.2
62.5°	29406.2	23468.1	5378.6	1696.0	1394.3	1199.8	1077.4	1014.1	968.2	939.7	933.2
65°	32736.9	26501.6	7179.4	1811.8	1376.9	1108.1	972.5	922.3	882.9	856.7	854.5
67.5°	36561.6	29926.3	7006.8	2050.1	1435.9	1025.0	874.2	834.9	806.4	784.6	782.4
70°	38355.9	29390.9	4355.7	2218.3	1519.0	944.1	780.3	751.9	730.0	714.7	708.1
71°	37604.1	27906.9	3652.0	2198.6	1510.2	909.2	743.1	721.2	699.4	686.3	679.7
72.5°	35554.0	25450.3	3046.6	2045.7	1411.9	845.8	695.0	673.1	653.5	638.2	633.8
75°	31904.2	22729.4	2439.1	1634.8	1125.6	714.7	609.8	585.8	570.4	561.7	553.0
77.5°	23452.8	16220.9	1886.1	1291.7	828.3	583.5	520.2	502.7	487.4	474.3	467.7
80°	8984.7	6283.4	1269.8	963.8	607.6	461.1	419.7	410.9	395.5	386.9	386.9
82.5°	2419.4	1877.3	677.5	583.5	406.5	336.6	321.3	316.9	303.8	286.3	288.5
85°	979.1	828.3	380.3	321.3	249.2	198.9	216.4	218.5	203.3	181.4	183.6
87.5°	430.6	351.8	212.0	142.1	109.3	76.5	98.4	98.4	89.6	74.3	67.7
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)