

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: P383137

Luminaire Tested: **GLEON-SA4D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383137
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-SA4D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 28563.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

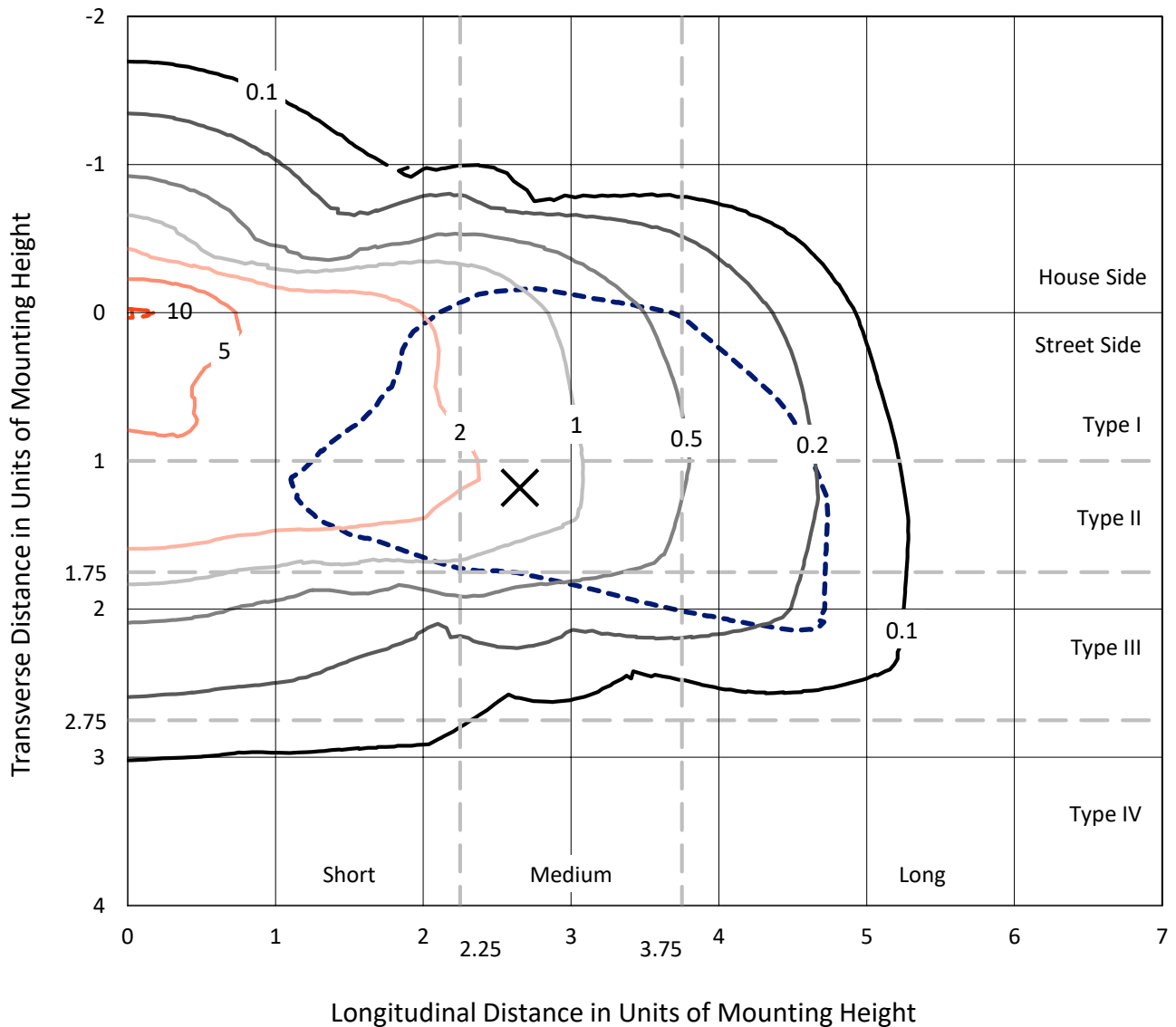
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383137
 CATALOG NUMBER: GLEON-SA4D-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

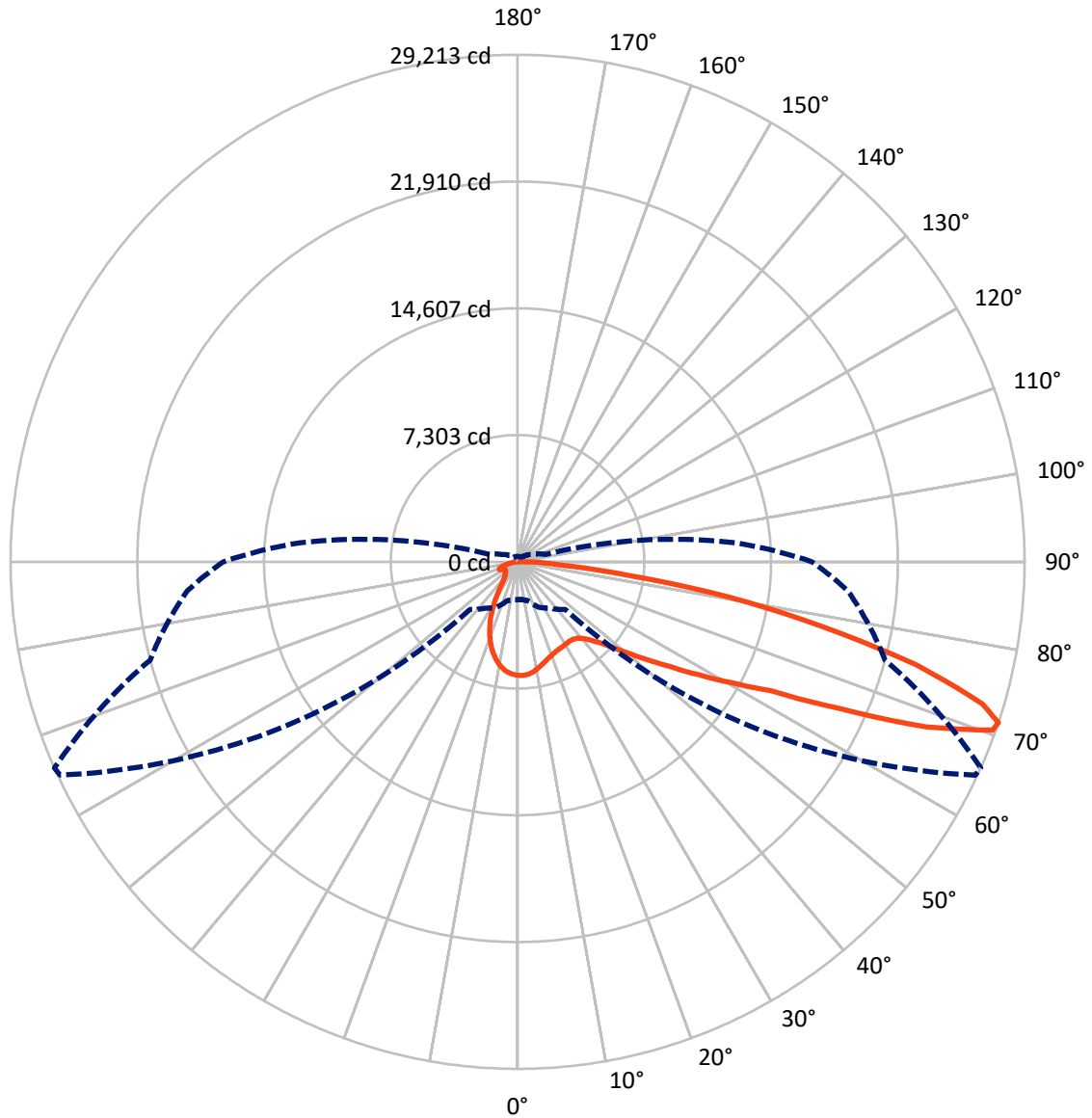
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P383137
CATALOG NUMBER: GLEON-SA4D-735-U-SL2

Luminous Intensity Polar Plot



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

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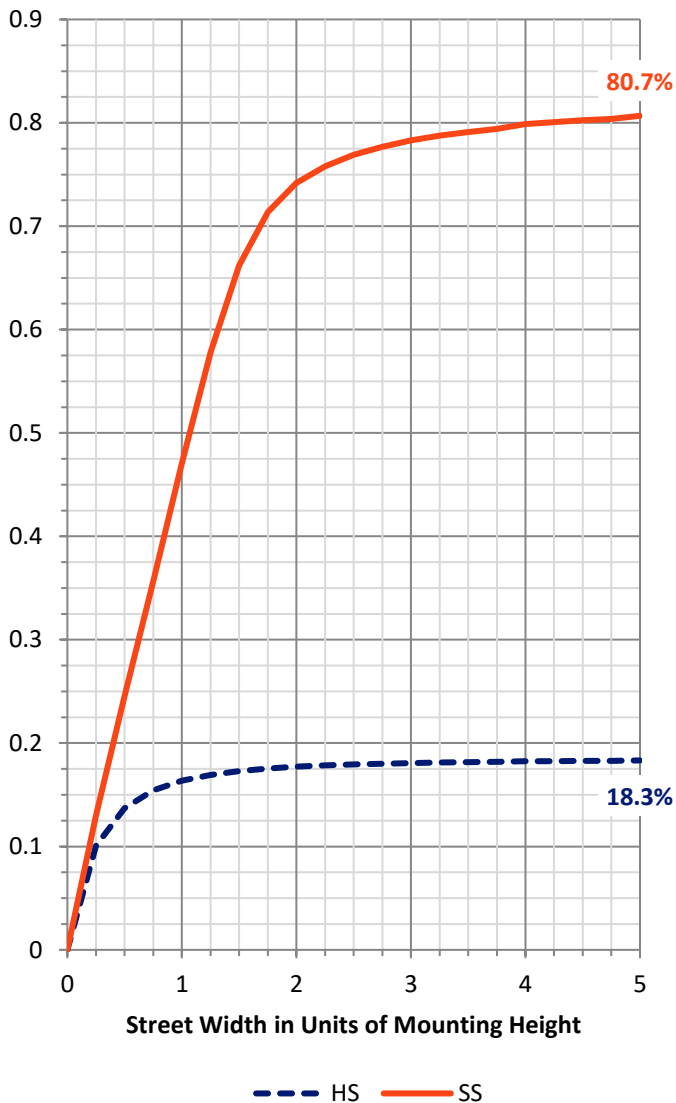
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5293.5	0.0	5293.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	23269.6	0.0	23269.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	28563.1	0.0	28563.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.0	2.0
10°-20°	1381.4	4.8
20°-30°	1855.6	6.5
30°-40°	2441.0	8.5
40°-50°	3551.0	12.4
50°-60°	5547.0	19.4
60°-70°	6948.5	24.3
70°-80°	5300.2	18.6
80°-90°	962.5	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°	28563.1	100.0
0°-180°	28563.1	100.0

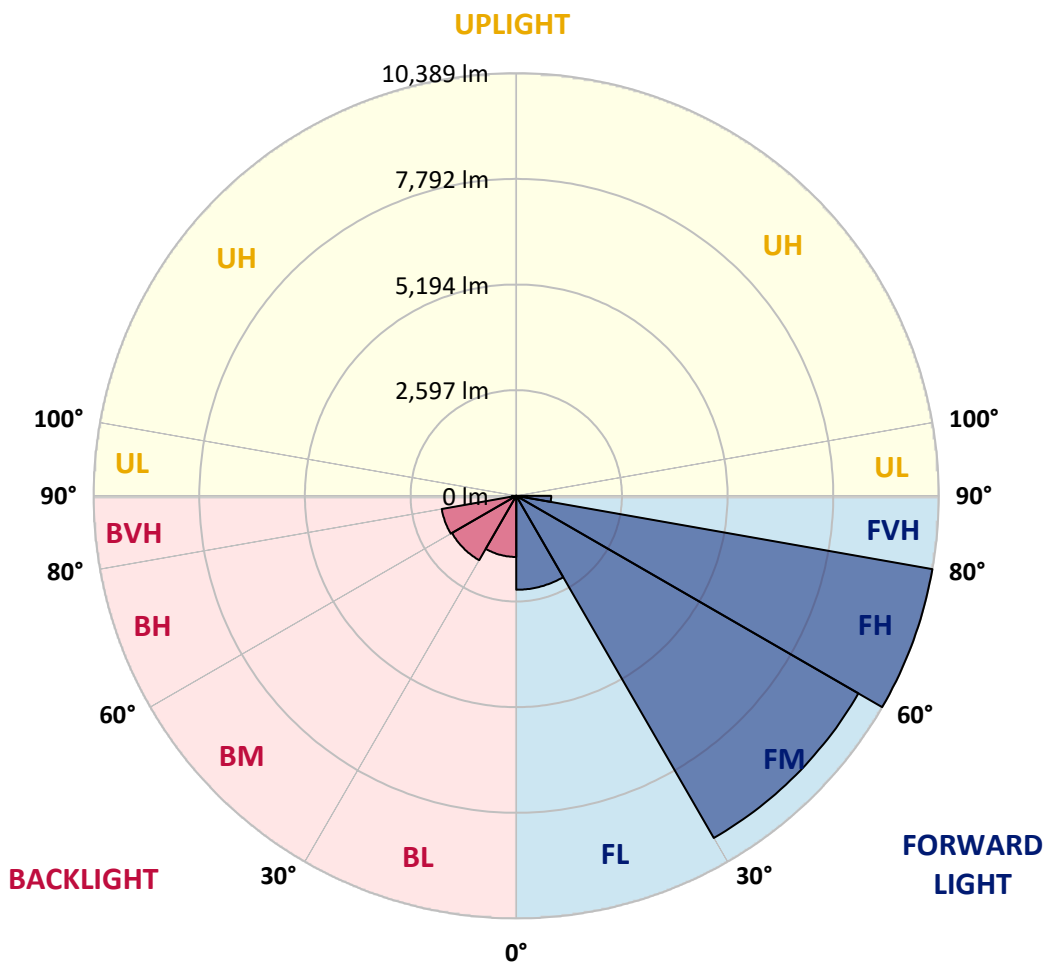


REPORT NUMBER: P383137
 CATALOG NUMBER: GLEON-SA4D-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2309.7	8.1			
FM (30°-60°)	9712.9	34.0			
FH (60°-80°)	10388.7	36.4			G4/12000
FVH (80°-90°)	858.3	3.0			G5
BL (0°-30°)	1503.2	5.3	B3/2500		
BM (30°-60°)	1826.1	6.4	B2/2500		
BH (60°-80°)	1860.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	104.2	0.4			G2/225
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°	65°	66°	75°	85°
0°	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3
2.5°	6422.0	6412.1	6441.7	6472.2	6484.1	6503.8	6533.4	6550.2	6549.2	6552.1	6542.3
5°	5995.9	5983.1	6042.3	6090.6	6183.3	6287.9	6415.0	6505.7	6507.8	6559.0	6572.8
7.5°	5592.5	5583.7	5651.8	5729.7	5837.2	5996.9	6203.0	6398.3	6410.2	6549.2	6597.5
10°	5269.1	5267.2	5333.2	5418.1	5543.3	5721.8	5958.5	6244.4	6262.2	6501.8	6601.4
12.5°	5016.7	5020.6	5077.8	5174.5	5306.6	5493.0	5749.4	6071.8	6100.4	6426.9	6578.8
15°	4830.3	4846.1	4892.4	4990.0	5120.3	5309.5	5572.9	5912.1	5955.5	6343.1	6565.9
17.5°	4723.8	4741.5	4774.1	4854.9	4977.3	5159.7	5409.1	5780.9	5820.4	6279.0	6566.9
20°	4692.2	4707.0	4725.7	4775.0	4878.6	5044.2	5280.0	5662.6	5705.0	6227.7	6576.8
22.5°	4754.3	4765.1	4767.2	4763.2	4826.3	4961.4	5186.3	5575.8	5621.1	6194.1	6583.7
25°	4887.5	4902.3	4891.5	4854.9	4834.2	4917.1	5138.0	5518.6	5563.9	6169.5	6569.9
27.5°	5087.6	5089.6	5080.8	5033.4	4935.8	4922.0	5123.1	5485.1	5528.5	6140.9	6541.3
30°	5359.8	5372.7	5356.9	5292.8	5133.0	5000.9	5140.9	5452.5	5492.0	6104.4	6494.9
32.5°	5678.3	5709.9	5709.0	5641.9	5413.1	5177.4	5213.9	5432.8	5463.4	6066.0	6438.8
35°	6008.8	6052.2	6133.0	6104.4	5821.3	5456.5	5354.0	5464.4	5485.1	6061.0	6399.3
37.5°	6351.9	6395.4	6562.0	6639.0	6307.6	5855.9	5574.8	5575.8	5585.7	6121.2	6396.3
40°	6710.9	6757.3	7007.8	7207.9	6937.7	6361.8	5930.9	5808.6	5797.7	6269.1	6454.5
42.5°	7213.8	7255.3	7556.1	7811.5	7636.9	7009.7	6422.9	6167.5	6144.9	6559.0	6640.9
45°	7850.0	7885.5	8205.0	8478.1	8388.4	7749.4	7041.3	6661.6	6657.7	7042.2	7018.6
47.5°	8606.3	8634.0	8920.9	9185.2	9217.8	8600.4	7818.4	7423.9	7359.8	7704.9	7603.4
50°	9394.3	9424.8	9620.1	9904.1	10145.8	9739.4	8818.4	8357.8	8272.0	8579.7	8431.8
52.5°	9916.0	9956.4	10126.0	10486.0	11189.1	10988.0	10000.8	9490.0	9359.7	9639.8	9526.5
55°	9683.3	9774.0	10033.3	10610.2	12023.4	12895.2	11459.3	10810.4	10663.5	10896.2	10829.1
57.5°	8625.1	8749.3	9103.4	9993.8	12140.8	14575.6	13664.4	12365.6	12262.1	12195.0	12225.5
60°	6691.2	6810.5	7249.4	8410.1	11323.2	15802.4	16982.9	14282.8	14132.9	13498.8	13526.4
62.5°	4735.6	4675.4	4976.2	5825.3	9201.0	15946.4	20759.0	16846.8	16353.7	14875.4	14754.1
65°	3611.3	3597.5	3732.6	4002.9	5572.9	14223.6	23008.4	21156.4	20386.2	16494.7	16208.7
67.5°	2967.4	2942.8	3075.9	3469.4	3588.7	9176.3	23057.7	26156.3	25399.9	18510.5	17891.1
70°	2439.8	2412.1	2536.4	3044.3	3316.5	4653.7	19405.9	29084.2	29043.8	21062.7	19161.4
71°	2187.4	2167.6	2316.5	2880.6	3258.3	3878.6	16755.1	29092.1	29213.4	21926.6	19086.4
72.5°	1781.0	1787.9	1945.7	2564.1	3215.0	3425.0	12314.3	27736.1	27992.5	22750.0	18405.0
75°	1183.4	1189.3	1396.4	1972.4	3117.3	3351.1	6768.1	23273.7	23745.1	22256.9	16794.5
77.5°	794.9	792.8	933.9	1353.1	2715.9	3351.1	3968.4	17406.9	17924.7	17709.7	12947.5
80°	547.3	543.4	643.0	933.9	2056.2	3391.5	3068.0	12199.0	12355.8	9563.9	5262.2
82.5°	335.3	338.2	420.1	659.7	1399.4	3052.2	2896.4	6651.7	6481.1	2682.4	1314.6
85°	192.3	191.3	268.2	446.8	898.4	2575.9	2824.4	2862.8	2626.2	807.7	475.4
87.5°	69.0	74.0	144.0	247.5	514.8	1793.9	2396.4	1489.1	1342.2	364.9	215.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383137
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3	6543.3
2.5°	6535.4	6541.3	6534.3	6494.9	6461.4	6407.2	6376.6	6334.2	6321.4	6315.4	6331.3
5°	6560.1	6562.0	6503.8	6400.3	6283.8	6146.8	6048.2	5926.9	5869.7	5845.1	5860.8
7.5°	6582.7	6573.8	6446.6	6248.4	6033.4	5794.8	5582.8	5388.4	5275.1	5228.7	5232.6
10°	6585.7	6548.2	6344.0	6037.4	5704.1	5354.0	5028.5	4728.7	4539.3	4416.1	4453.5
12.5°	6555.1	6492.0	6193.2	5764.1	5301.6	4824.4	4384.5	3934.9	3664.6	3539.4	3543.3
15°	6531.5	6417.1	6007.7	5442.7	4821.4	4189.3	3588.7	3060.1	2772.1	2643.9	2583.7
17.5°	6511.7	6336.2	5792.7	5080.8	4254.4	3452.6	2730.7	2259.3	2101.6	2064.0	2048.3
20°	6484.1	6250.4	5553.1	4661.7	3608.4	2628.2	1994.1	1761.3	1762.3	1805.7	1811.6
22.5°	6445.7	6152.7	5297.7	4191.2	2915.1	1914.1	1563.0	1496.1	1564.1	1646.9	1661.7
25°	6388.5	6037.4	5013.7	3671.5	2222.9	1471.4	1335.3	1332.3	1415.1	1501.9	1514.8
27.5°	6307.6	5886.4	4698.2	3113.3	1638.0	1250.5	1196.2	1217.0	1278.1	1341.1	1346.1
30°	6199.1	5710.9	4350.0	2524.6	1284.0	1113.4	1107.5	1126.2	1163.7	1208.0	1212.0
32.5°	6079.7	5532.5	3978.3	1954.6	1099.6	1039.4	1045.4	1054.2	1071.9	1089.7	1093.6
35°	5971.3	5350.0	3597.5	1485.2	1011.8	991.1	987.2	985.2	987.2	981.2	982.2
37.5°	5901.3	5199.1	3201.1	1182.4	961.5	948.7	936.9	922.0	905.3	895.4	897.5
40°	5875.6	5086.7	2799.8	1021.7	920.1	911.2	888.5	857.0	837.3	831.3	831.3
42.5°	5944.7	5028.5	2412.1	940.8	885.6	870.8	833.4	796.8	782.0	781.0	780.1
45°	6155.7	5052.2	2043.3	896.4	854.0	825.4	776.1	745.5	735.6	737.7	736.7
47.5°	6534.3	5201.1	1727.7	866.8	822.5	785.0	729.8	705.1	693.3	693.3	694.3
50°	7178.3	5549.2	1476.3	842.2	795.8	747.5	696.2	665.7	649.8	648.9	648.9
52.5°	8116.2	6172.4	1319.5	821.4	766.3	714.0	662.7	624.2	605.5	601.6	599.6
55°	9291.7	7065.9	1276.1	807.7	726.8	677.5	622.3	583.8	563.1	554.3	553.2
57.5°	10606.3	8152.7	1361.9	790.9	686.4	634.1	577.9	541.4	519.7	508.9	507.9
60°	11936.7	9339.0	1712.0	767.2	652.8	586.8	532.6	499.0	477.3	465.5	463.5
62.5°	13269.0	10589.6	2427.0	765.3	629.2	541.4	486.2	457.6	436.9	424.0	421.1
65°	14771.9	11958.4	3239.5	817.5	621.2	500.0	438.9	416.1	398.4	386.6	385.6
67.5°	16497.7	13503.6	3161.7	925.0	647.9	462.5	394.5	376.7	363.9	354.1	353.1
70°	17307.3	13262.1	1965.5	1000.9	685.4	426.0	352.0	339.3	329.4	322.5	319.5
71°	16968.0	12592.5	1647.9	992.1	681.4	410.3	335.3	325.5	315.6	309.6	306.7
72.5°	16043.0	11484.0	1374.7	923.1	637.1	381.7	313.6	303.8	294.8	287.9	286.0
75°	14396.1	10256.2	1100.5	737.7	507.9	322.5	275.2	264.3	257.4	253.5	249.5
77.5°	10582.7	7319.4	851.1	582.9	373.7	263.3	234.7	226.8	219.9	214.0	211.0
80°	4054.2	2835.3	573.0	434.9	274.2	208.1	189.4	185.4	178.5	174.6	174.6
82.5°	1091.7	847.1	305.7	263.3	183.4	151.8	144.9	143.0	137.1	129.2	130.1
85°	441.8	373.7	171.6	144.9	112.4	89.7	97.6	98.7	91.8	81.9	82.8
87.5°	194.3	158.7	95.7	64.1	49.3	34.6	44.3	44.3	40.4	33.5	30.6
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)