

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: P383109

Luminaire Tested: **GLEON-SA4C-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383109
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-SA4C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 26037.7 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

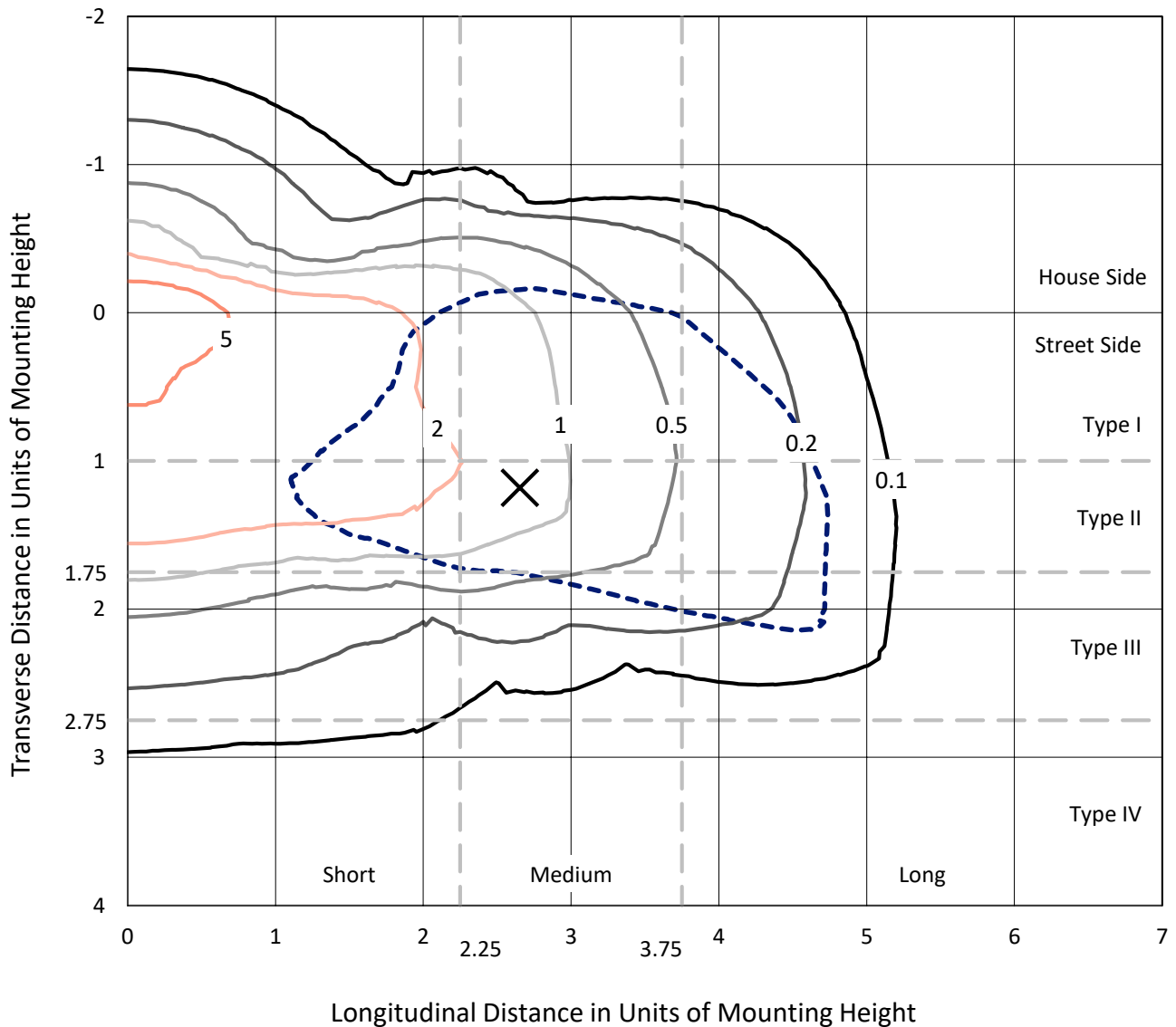
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383109
 CATALOG NUMBER: GLEON-SA4C-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

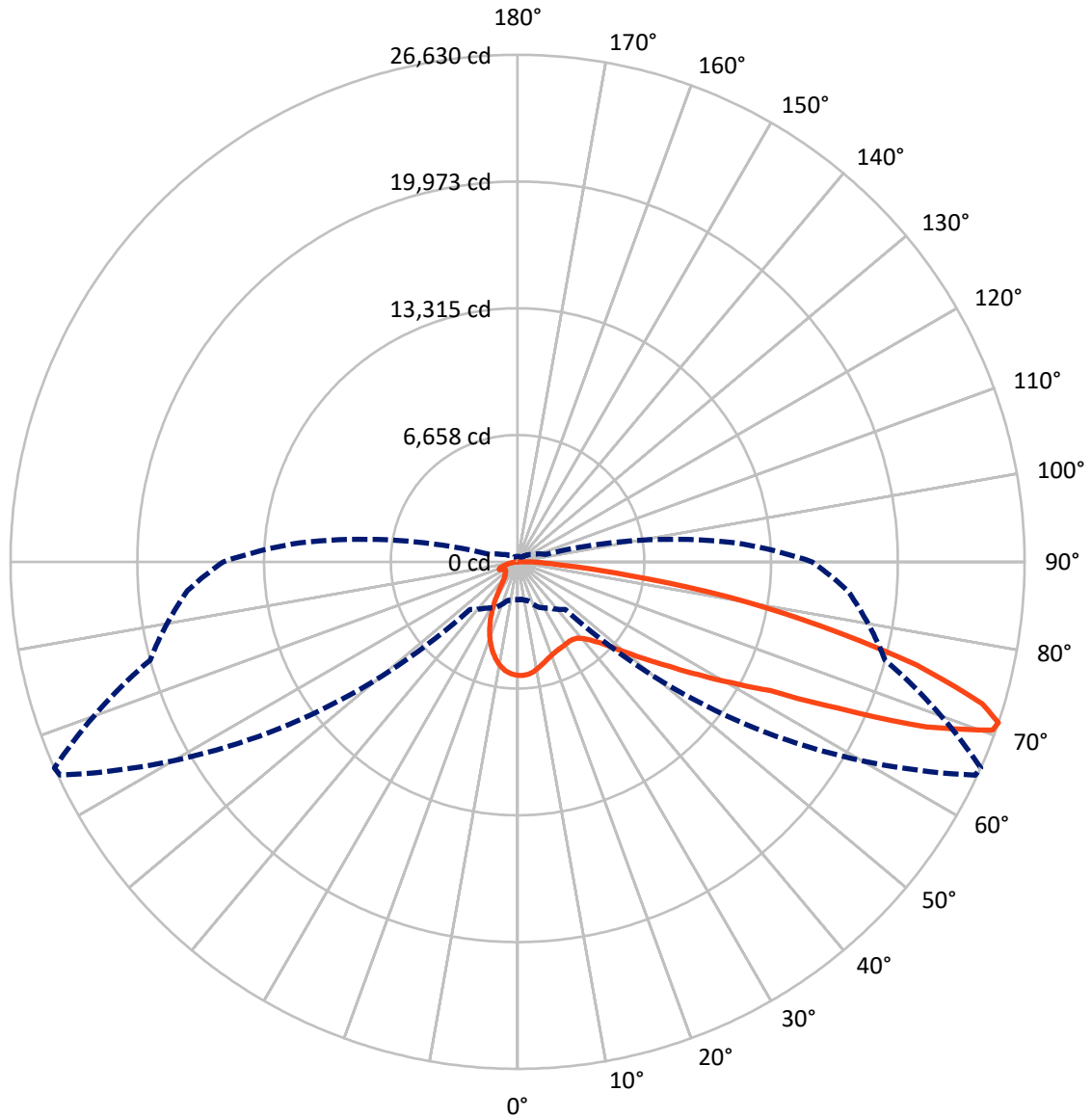
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P383109
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Luminous Intensity Polar Plot



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

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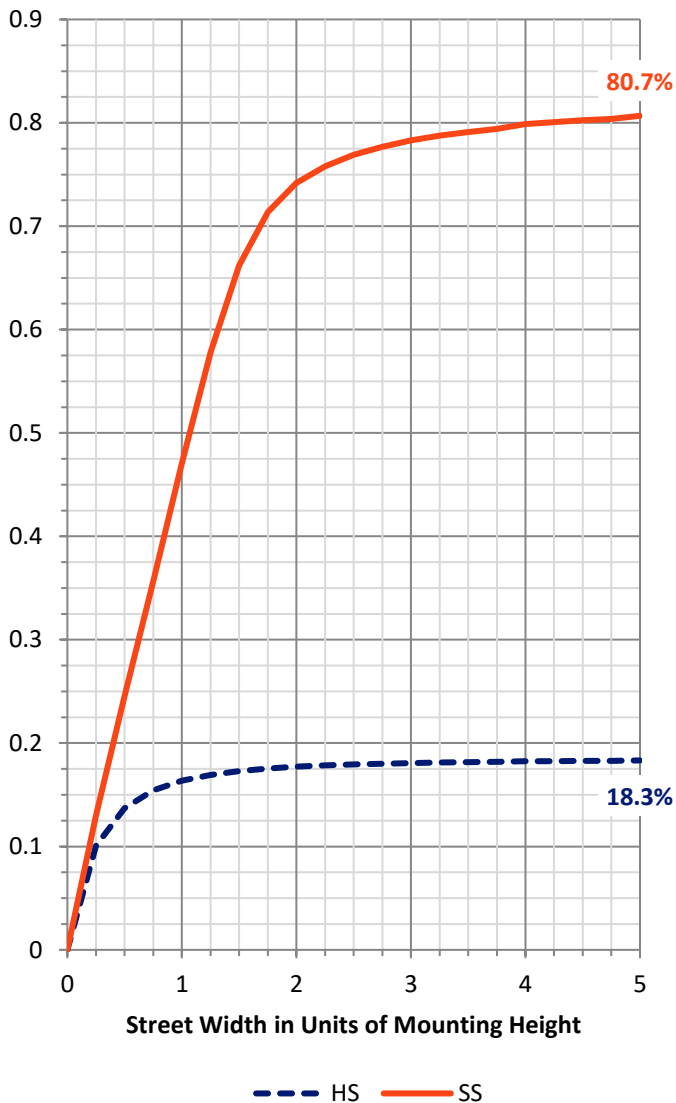
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4825.5	0.0	4825.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	21212.2	0.0	21212.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	26037.7	0.0	26037.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.0	2.0
10°-20°	1259.3	4.8
20°-30°	1691.5	6.5
30°-40°	2225.2	8.5
40°-50°	3237.0	12.4
50°-60°	5056.6	19.4
60°-70°	6334.2	24.3
70°-80°	4831.6	18.6
80°-90°	877.4	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°	26037.7	100.0
0°-180°	26037.7	100.0

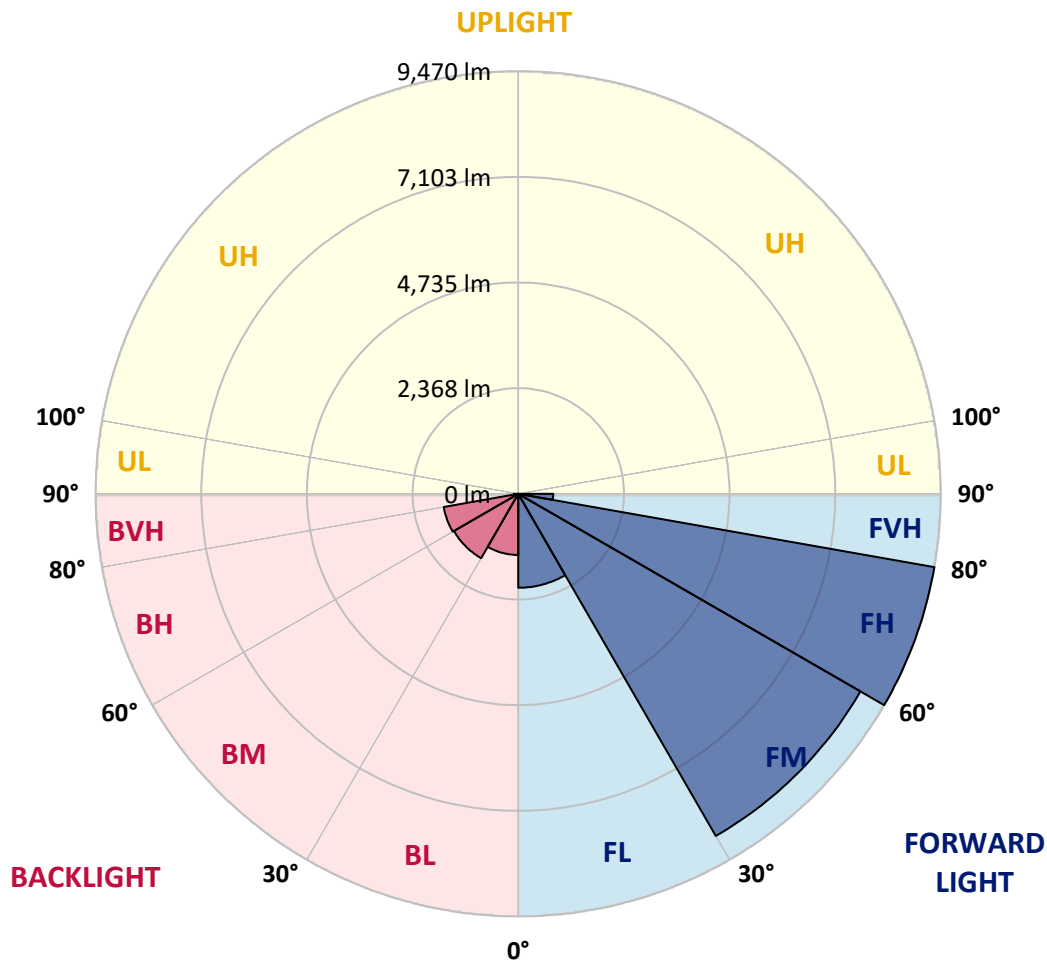


REPORT NUMBER: P383109
 CATALOG NUMBER: GLEON-SA4C-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.5	8.1			
FM (30°-60°)	8854.1	34.0			
FH (60°-80°)	9470.2	36.4			G4/12000
FVH (80°-90°)	782.4	3.0			G5
BL (0°-30°)	1370.3	5.3	B3/2500		
BM (30°-60°)	1664.6	6.4	B2/2500		
BH (60°-80°)	1695.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	95.0	0.4			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°	65°	66°	75°	85°
0°	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7
2.5°	5854.1	5845.2	5872.1	5900.0	5910.8	5928.7	5955.8	5971.0	5970.1	5972.8	5963.9
5°	5465.8	5454.1	5508.1	5552.1	5636.6	5731.9	5847.9	5930.6	5932.4	5979.1	5991.7
7.5°	5098.1	5090.1	5152.0	5223.1	5321.1	5466.7	5654.6	5832.6	5843.4	5970.1	6014.2
10°	4803.2	4801.5	4861.7	4939.0	5053.2	5215.9	5431.7	5692.3	5708.5	5927.0	6017.8
12.5°	4573.2	4576.7	4628.9	4717.0	4837.4	5007.3	5241.1	5535.0	5561.1	5858.7	5997.1
15°	4403.2	4417.6	4459.9	4548.8	4667.5	4840.1	5080.1	5389.4	5429.0	5782.2	5985.4
17.5°	4306.1	4322.3	4352.0	4425.7	4537.2	4703.5	4930.9	5269.9	5305.8	5723.8	5986.3
20°	4277.4	4290.8	4307.9	4352.8	4447.2	4598.3	4813.1	5162.0	5200.6	5677.0	5995.3
22.5°	4334.0	4343.9	4345.7	4342.0	4399.6	4522.8	4727.7	5082.8	5124.2	5646.5	6001.6
25°	4455.3	4468.8	4458.9	4425.7	4406.8	4482.3	4683.7	5030.7	5072.0	5624.0	5989.0
27.5°	4637.8	4639.7	4631.6	4588.4	4499.4	4486.8	4670.2	5000.1	5039.7	5597.9	5962.9
30°	4886.0	4897.6	4883.3	4824.9	4679.2	4558.7	4686.3	4970.5	5006.4	5564.7	5920.6
32.5°	5176.3	5205.1	5204.2	5143.1	4934.5	4719.7	4752.9	4952.5	4980.3	5529.7	5869.4
35°	5477.5	5517.0	5590.8	5564.7	5306.7	4974.1	4880.6	4981.3	5000.1	5525.1	5833.4
37.5°	5790.3	5829.9	5981.8	6051.9	5749.9	5338.1	5082.0	5082.8	5091.8	5580.0	5830.7
40°	6117.6	6159.8	6388.2	6570.7	6324.3	5799.3	5406.4	5295.0	5285.1	5714.9	5883.8
42.5°	6576.1	6613.8	6888.0	7120.8	6961.7	6390.0	5855.1	5622.3	5601.6	5979.1	6053.8
45°	7155.9	7188.3	7479.5	7728.5	7646.7	7064.2	6418.7	6072.6	6069.0	6419.6	6398.1
47.5°	7845.4	7870.6	8132.1	8373.1	8402.7	7840.0	7127.1	6767.5	6709.1	7023.7	6931.1
50°	8563.7	8591.6	8769.6	9028.5	9248.7	8878.3	8038.7	7618.8	7540.6	7821.1	7686.3
52.5°	9039.3	9076.1	9230.7	9558.9	10199.8	10016.5	9116.6	8650.9	8532.2	8787.6	8684.2
55°	8827.1	8909.8	9146.2	9672.2	10960.4	11755.0	10446.2	9854.7	9720.7	9932.8	9871.7
57.5°	7862.4	7975.7	8298.5	9110.3	11067.3	13286.9	12456.3	11272.3	11177.9	11116.8	11144.7
60°	6099.6	6208.4	6608.4	7666.5	10322.1	14405.3	15481.3	13020.0	12883.3	12305.3	12330.4
62.5°	4316.9	4262.0	4536.3	5310.3	8387.5	14536.5	18923.6	15357.3	14907.7	13560.2	13449.6
65°	3292.1	3279.5	3402.7	3649.0	5080.1	12966.0	20974.1	19285.8	18583.7	15036.3	14775.6
67.5°	2705.0	2682.6	2804.0	3162.6	3271.4	8365.0	21019.1	23843.6	23154.1	16873.9	16309.3
70°	2224.1	2198.9	2312.2	2775.2	3023.2	4242.3	17690.1	26512.7	26475.9	19200.4	17467.2
71°	1994.0	1976.0	2111.7	2625.9	2970.2	3535.7	15273.7	26519.9	26630.4	19987.9	17398.9
72.5°	1623.6	1629.8	1773.7	2337.3	2930.6	3122.2	11225.5	25283.8	25517.5	20738.6	16777.6
75°	1078.7	1084.1	1273.0	1798.0	2841.7	3054.7	6169.7	21215.9	21645.6	20289.1	15309.6
77.5°	724.6	722.8	851.3	1233.4	2475.8	3054.7	3617.5	15867.9	16339.8	16143.9	11802.7
80°	498.9	495.3	586.1	851.3	1874.4	3091.6	2796.7	11120.3	11263.3	8718.3	4796.9
82.5°	305.6	308.3	383.0	601.4	1275.7	2782.3	2640.3	6063.6	5908.1	2445.2	1198.3
85°	175.3	174.4	244.5	407.3	819.0	2348.2	2574.7	2609.7	2394.0	736.3	433.3
87.5°	63.0	67.4	131.3	225.6	469.3	1635.2	2184.5	1357.5	1223.5	332.7	196.0
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°	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7	5964.7
2.5°	5957.5	5962.9	5956.6	5920.6	5890.1	5840.7	5812.8	5774.1	5762.5	5757.1	5771.4
5°	5980.0	5981.8	5928.7	5834.4	5728.3	5603.4	5513.5	5402.9	5350.7	5328.3	5342.6
7.5°	6000.7	5992.6	5876.7	5695.9	5500.0	5282.4	5089.1	4912.1	4808.6	4766.4	4770.0
10°	6003.4	5969.3	5783.1	5503.6	5199.7	4880.6	4583.9	4310.6	4138.0	4025.6	4059.8
12.5°	5975.5	5918.0	5645.6	5254.6	4832.9	4397.8	3996.9	3586.9	3340.6	3226.4	3230.0
15°	5954.0	5849.7	5476.6	4961.4	4395.1	3818.9	3271.4	2789.5	2527.0	2410.2	2355.3
17.5°	5936.0	5776.0	5280.6	4631.6	3878.2	3147.3	2489.3	2059.6	1915.7	1881.5	1867.2
20°	5910.8	5697.7	5062.1	4249.4	3289.4	2395.8	1817.7	1605.6	1606.5	1646.0	1651.4
22.5°	5875.7	5608.8	4829.3	3820.6	2657.4	1744.9	1424.9	1363.8	1425.8	1501.3	1514.8
25°	5823.6	5503.6	4570.5	3346.9	2026.3	1341.2	1217.3	1214.6	1290.0	1369.2	1380.8
27.5°	5749.9	5366.0	4282.7	2838.1	1493.2	1139.9	1090.5	1109.4	1165.1	1222.7	1227.1
30°	5651.0	5206.0	3965.4	2301.4	1170.5	1014.9	1009.5	1026.7	1060.8	1101.3	1104.8
32.5°	5542.2	5043.3	3626.5	1781.8	1002.3	947.6	952.9	961.0	977.2	993.4	996.9
35°	5443.3	4876.9	3279.5	1353.8	922.3	903.5	899.9	898.1	899.9	894.5	895.4
37.5°	5379.5	4739.4	2918.1	1077.9	876.5	864.8	854.0	840.5	825.3	816.3	818.1
40°	5356.1	4637.0	2552.2	931.4	838.8	830.7	810.0	781.2	763.2	757.8	757.8
42.5°	5419.1	4583.9	2198.9	857.6	807.3	793.8	759.7	726.4	712.9	712.0	711.1
45°	5611.5	4605.5	1862.7	817.2	778.5	752.4	707.5	679.7	670.6	672.4	671.6
47.5°	5956.6	4741.2	1575.0	790.2	749.7	715.6	665.2	642.8	632.0	632.0	632.9
50°	6543.7	5058.6	1345.8	767.7	725.5	681.4	634.7	606.8	592.5	591.5	591.5
52.5°	7398.6	5626.7	1202.8	748.9	698.5	650.9	604.1	569.1	551.9	548.4	546.5
55°	8470.2	6441.2	1163.3	736.3	662.5	617.6	567.2	532.2	513.3	505.3	504.3
57.5°	9668.5	7431.9	1241.5	721.0	625.7	578.0	526.8	493.5	473.8	463.9	463.0
60°	10881.2	8513.3	1560.6	699.4	595.2	534.9	485.4	454.9	435.1	424.3	422.5
62.5°	12095.8	9653.3	2212.4	697.6	573.6	493.5	443.2	417.1	398.2	386.6	383.9
65°	13465.8	10901.1	2953.2	745.2	566.4	455.8	400.0	379.3	363.2	352.4	351.5
67.5°	15039.0	12309.7	2882.1	843.2	590.6	421.6	359.6	343.4	331.7	322.7	321.8
70°	15777.1	12089.4	1791.6	912.5	624.8	388.4	320.9	309.3	300.2	294.0	291.3
71°	15467.9	11479.1	1502.2	904.3	621.2	374.0	305.6	296.7	287.7	282.3	279.6
72.5°	14624.6	10468.6	1253.2	841.5	580.7	347.9	285.9	276.9	268.8	262.5	260.7
75°	13123.3	9349.4	1003.3	672.4	463.0	294.0	250.8	240.9	234.7	231.0	227.5
77.5°	9646.9	6672.2	775.8	531.3	340.7	240.1	214.0	206.8	200.5	195.1	192.4
80°	3695.7	2584.6	522.3	396.5	249.9	189.7	172.6	169.0	162.7	159.1	159.1
82.5°	995.2	772.3	278.7	240.1	167.2	138.4	132.2	130.3	124.9	117.7	118.7
85°	402.7	340.7	156.4	132.2	102.5	81.8	89.0	89.9	83.6	74.6	75.5
87.5°	177.1	144.8	87.2	58.4	45.0	31.5	40.4	40.4	36.9	30.6	27.9
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)