

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: P383153

Luminaire Tested: **GLEON-SA4D-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29810.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

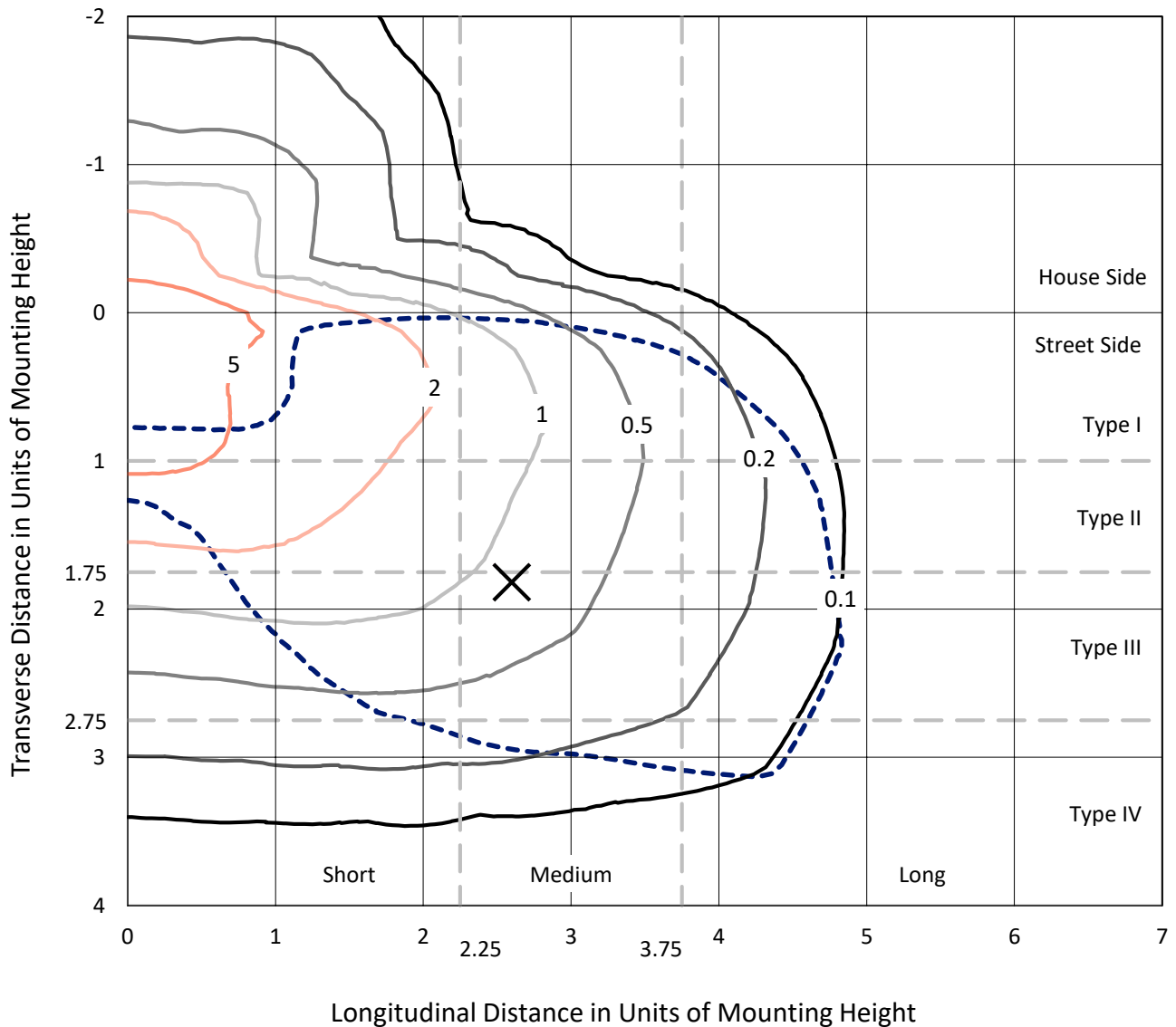
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383153
 CATALOG NUMBER: GLEON-SA4D-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

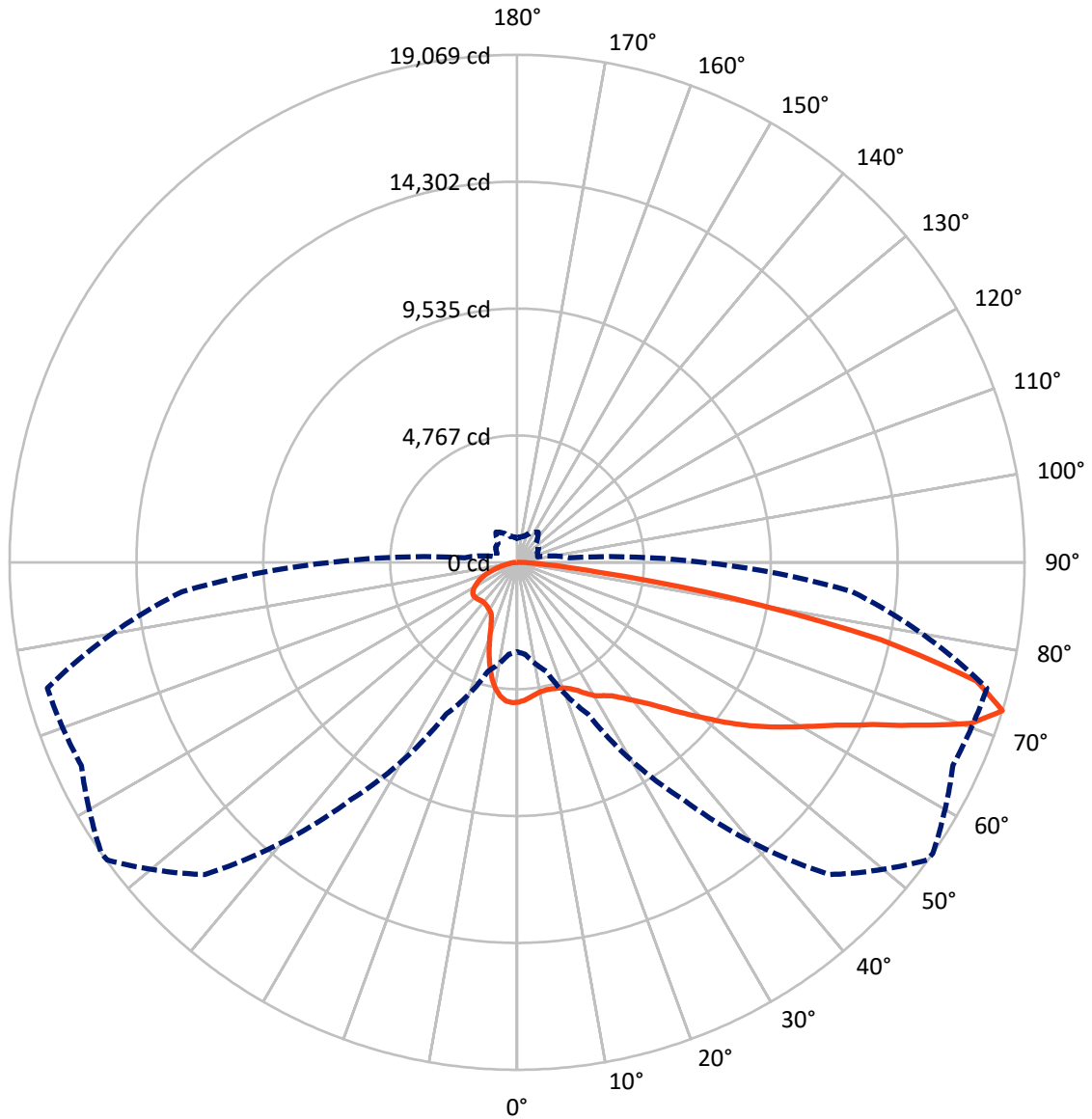
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P383153
CATALOG NUMBER: GLEON-SA4D-735-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P383153
 CATALOG NUMBER: GLEON-SA4D-735-U-T3R

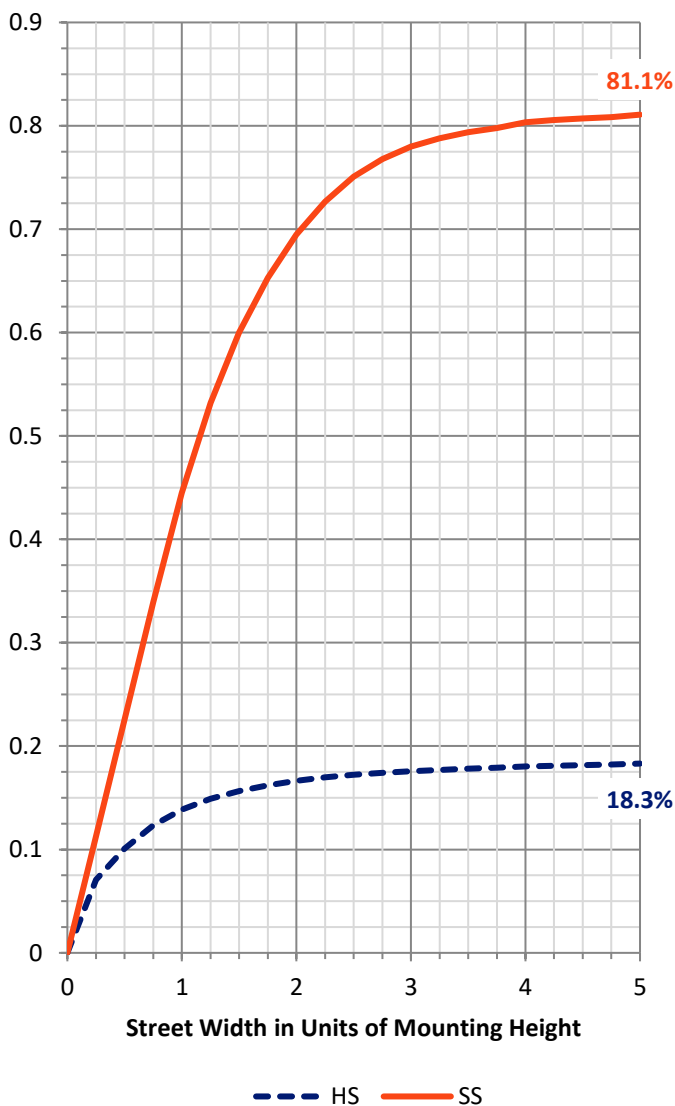
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5540.8	0.0	5540.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24269.7	0.0	24269.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	29810.4	0.0	29810.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.8	1.6
10°-20°	1266.7	4.2
20°-30°	2088.5	7.0
30°-40°	3089.4	10.4
40°-50°	4312.1	14.5
50°-60°	5614.5	18.8
60°-70°	6900.1	23.1
70°-80°	5408.8	18.1
80°-90°	654.5	2.2
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°	29810.4	100.0
0°-180°	29810.4	100.0

Coefficient of Utilization

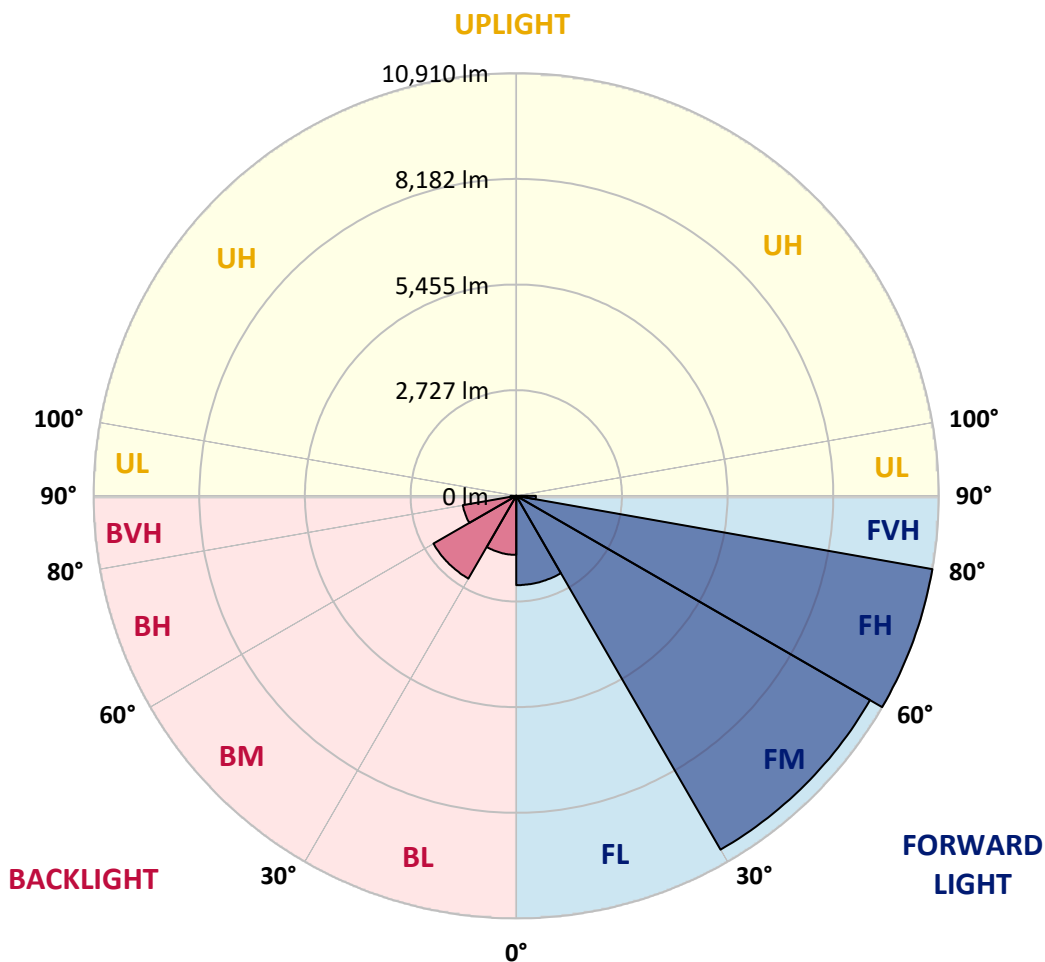


REPORT NUMBER: P383153
 CATALOG NUMBER: GLEON-SA4D-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2306.5	7.7			
FM (30°-60°)	10547.5	35.4			
FH (60°-80°)	10909.6	36.6			G4/12000
FVH (80°-90°)	506.1	1.7			G4/750
BL (0°-30°)	1524.5	5.1	B3/2500		
BM (30°-60°)	2468.5	8.3	B2/2500		
BH (60°-80°)	1399.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	148.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





REPORT NUMBER: P383153
 CATALOG NUMBER: GLEON-SA4D-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9
2.5°	5086.7	5074.7	5089.8	5110.9	5134.0	5165.2	5183.4	5191.5	5222.7	5234.7	5260.9
5°	4851.1	4845.1	4870.3	4906.6	4957.9	5030.4	5088.8	5099.9	5182.4	5240.8	5294.2
7.5°	4680.0	4680.0	4709.2	4752.5	4809.9	4907.5	4990.1	5005.2	5145.1	5271.0	5369.7
10°	4544.1	4549.1	4583.3	4634.6	4702.1	4805.9	4915.6	4932.7	5135.1	5341.5	5498.6
12.5°	4453.4	4465.5	4496.8	4543.1	4626.6	4752.5	4891.5	4914.6	5156.2	5442.2	5653.7
15°	4510.8	4531.0	4533.9	4553.1	4599.4	4736.4	4905.5	4929.7	5201.6	5544.9	5829.8
17.5°	4762.5	4769.6	4738.4	4698.1	4675.9	4763.6	4947.8	4973.0	5255.9	5646.6	5999.0
20°	5145.1	5141.1	5073.7	4965.0	4852.2	4866.2	5017.3	5043.5	5329.4	5736.2	6168.1
22.5°	5628.4	5614.3	5510.7	5310.3	5117.9	5037.4	5139.1	5161.2	5440.1	5864.1	6349.3
25°	6214.4	6183.2	6046.3	5777.5	5494.5	5287.1	5322.4	5343.5	5601.3	6007.1	6515.5
27.5°	6832.7	6801.5	6627.3	6302.0	5925.5	5602.2	5575.1	5593.2	5784.5	6112.7	6638.4
30°	7479.1	7445.9	7286.8	6922.3	6382.6	5928.5	5810.7	5817.7	5913.4	6170.2	6739.0
32.5°	8128.5	8097.3	7919.1	7496.3	6879.0	6278.9	5980.9	5971.8	5991.0	6229.5	6852.8
35°	8787.0	8799.1	8590.7	8122.5	7428.7	6668.6	6182.2	6163.1	6120.8	6351.4	7013.9
37.5°	9491.8	9483.8	9213.9	8724.6	8003.7	7091.4	6471.2	6468.2	6322.2	6581.9	7266.6
40°	9963.1	9968.1	9804.0	9340.8	8584.7	7559.7	6841.8	6834.7	6643.4	6927.4	7597.9
42.5°	10147.3	10180.5	10222.8	9928.8	9192.8	8102.3	7283.8	7273.7	7091.4	7422.8	7987.6
45°	10160.4	10226.9	10488.7	10451.4	9809.0	8723.6	7848.7	7820.4	7689.6	8081.2	8452.8
47.5°	10047.7	10116.1	10551.1	10762.5	10359.7	9379.1	8509.1	8487.0	8374.2	8904.8	8956.2
50°	9801.0	9866.4	10422.2	10914.6	10812.8	10009.4	9270.3	9212.0	9151.5	9856.3	9532.2
52.5°	9338.8	9464.7	10250.0	10950.8	11083.7	10569.2	10070.8	10032.6	10065.7	10860.2	10109.1
55°	8244.3	8385.3	9806.0	10920.6	11284.1	11039.4	10871.3	10869.3	11041.4	11913.4	10728.3
57.5°	7631.1	7730.8	8901.8	10869.3	11521.8	11506.6	11663.7	11682.8	12018.1	13060.2	11376.7
60°	7284.8	7389.5	8443.7	10679.0	11890.3	12110.8	12472.2	12510.5	13010.9	14329.9	12157.1
62.5°	6969.7	7084.4	8159.7	10291.3	12324.2	12974.7	13440.8	13475.0	14062.1	15634.8	12911.2
65°	6430.9	6560.8	7743.9	10036.6	12718.9	14101.3	14672.2	14695.4	15269.3	17002.1	13488.2
67.5°	5669.8	5788.5	6959.6	9473.7	13010.9	15469.7	16309.4	16322.5	16466.5	17967.8	13783.2
70°	4780.7	4826.0	5841.9	8311.8	12665.5	16749.4	18103.7	18106.7	17558.0	18586.0	13734.8
72.5°	3359.0	3465.6	4241.0	6292.0	10884.4	16593.4	19035.1	19069.2	18065.4	18273.9	12637.4
75°	2060.1	2172.8	2660.2	3813.0	6905.2	13050.1	17587.2	17824.8	17113.9	16293.3	10323.5
77.5°	1377.4	1419.7	1735.8	2223.2	3128.4	7508.3	13521.4	13968.5	14217.1	11882.2	6602.1
80°	768.2	848.8	1150.8	1381.4	1391.5	2983.4	8107.4	8212.2	7910.1	4731.3	2036.9
82.5°	406.8	451.1	768.2	811.6	759.2	998.8	3021.7	3024.6	2527.3	1268.7	605.1
85°	315.1	352.4	526.6	495.4	387.6	443.0	996.8	1051.2	859.9	519.5	197.3
87.5°	157.1	195.3	357.4	314.1	152.0	126.9	356.4	380.6	339.4	203.4	71.4
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: P383153
 CATALOG NUMBER: GLEON-SA4D-735-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9	5257.9
2.5°	5271.0	5280.1	5291.2	5279.1	5275.1	5259.0	5231.8	5225.7	5211.6	5212.6	5220.7
5°	5317.4	5332.5	5326.4	5280.1	5224.7	5147.2	5066.6	4998.1	4952.9	4949.8	4946.8
7.5°	5406.0	5416.0	5368.7	5236.8	5081.7	4902.5	4733.4	4585.4	4495.7	4473.6	4468.5
10°	5544.9	5542.9	5412.9	5147.2	4838.1	4517.9	4246.0	4040.6	3920.8	3885.6	3876.4
12.5°	5700.0	5676.8	5428.1	4984.1	4493.7	4049.6	3705.3	3476.7	3351.9	3311.7	3301.6
15°	5860.0	5802.6	5390.9	4740.4	4070.8	3545.2	3183.8	2972.3	2904.8	2882.7	2878.7
17.5°	6009.0	5898.3	5284.1	4410.1	3588.5	3042.8	2760.8	2676.2	2692.4	2721.6	2722.6
20°	6155.0	5962.7	5112.9	3993.3	3080.1	2628.9	2533.3	2595.8	2672.2	2731.7	2739.7
22.5°	6299.0	6008.0	4892.4	3512.0	2624.9	2396.4	2463.9	2577.6	2665.3	2729.6	2740.7
25°	6419.9	6019.1	4588.3	2998.5	2308.7	2308.7	2430.6	2538.4	2624.9	2688.4	2699.4
27.5°	6464.2	5944.6	4159.5	2523.3	2149.7	2268.5	2384.3	2473.9	2547.4	2614.9	2627.0
30°	6481.2	5806.7	3664.1	2141.6	2084.2	2225.2	2321.9	2398.4	2467.9	2531.3	2542.4
32.5°	6484.3	5640.5	3138.5	1925.1	2039.0	2179.9	2244.4	2311.8	2386.3	2411.5	2415.5
35°	6503.4	5444.2	2584.7	1814.4	1996.7	2137.6	2189.0	2237.3	2116.5	2125.5	2133.6
37.5°	6558.8	5249.8	2121.5	1752.0	1969.5	2115.5	2176.8	2001.7	1907.1	1884.9	1881.8
40°	6662.5	5042.5	1778.1	1701.7	1959.4	2126.5	2099.3	1868.8	1705.7	1583.8	1565.7
42.5°	6806.5	4818.9	1558.7	1668.4	1966.4	2179.9	1991.6	1740.9	1470.1	1391.5	1381.4
45°	6968.6	4584.3	1439.8	1645.2	1990.6	2221.2	1969.5	1570.8	1360.3	1300.9	1295.9
47.5°	7125.7	4297.3	1378.4	1635.1	2023.8	2187.9	1875.9	1518.3	1307.9	1276.7	1279.8
50°	7305.9	4038.6	1341.1	1624.1	2053.0	2166.8	1770.1	1491.2	1287.8	1326.1	1366.3
52.5°	7458.0	3770.7	1307.9	1602.0	2064.1	2129.5	1742.9	1496.3	1287.8	1361.3	1399.6
55°	7638.2	3568.4	1269.7	1555.6	2043.0	2023.8	1723.7	1526.4	1302.9	1256.6	1260.6
57.5°	7870.7	3502.0	1227.4	1483.1	1972.5	1869.8	1714.7	1555.6	1293.8	1264.7	1274.7
60°	8193.0	3572.4	1210.3	1388.5	1862.7	1749.0	1715.7	1540.5	1230.4	1180.1	1181.1
62.5°	8500.1	3650.9	1209.2	1329.0	1727.8	1641.2	1692.5	1491.2	1198.2	1169.0	1180.1
65°	8600.8	3571.4	1160.9	1262.6	1575.8	1512.4	1650.2	1438.9	1174.0	1129.7	1127.7
67.5°	8465.8	3324.7	1063.3	1154.9	1401.6	1362.3	1594.9	1376.4	1135.7	1099.5	1093.5
70°	8065.1	2774.0	942.4	1013.0	1203.2	1193.1	1507.3	1303.9	1084.4	1053.2	1027.0
72.5°	6986.7	1976.5	794.4	842.8	979.7	1011.9	1386.5	1209.2	1011.9	944.5	904.2
75°	5738.2	1463.0	652.5	662.5	744.1	831.7	1220.3	1098.5	926.3	811.6	780.4
77.5°	3514.0	895.1	519.5	523.6	533.7	663.5	1004.9	974.7	817.6	676.6	654.5
80°	1137.8	488.3	375.6	394.7	364.5	486.4	777.3	829.6	701.8	565.8	541.7
82.5°	433.0	285.0	253.8	266.8	252.7	326.2	566.8	664.6	575.0	465.2	378.6
85°	209.4	161.1	150.0	168.1	156.0	167.1	362.5	489.3	436.0	303.0	281.9
87.5°	74.5	71.4	57.4	77.5	66.4	59.4	110.8	246.7	287.9	208.4	186.3
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)