

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: P383093

Luminaire Tested: **GLEON-SA4B-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22372 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 171
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

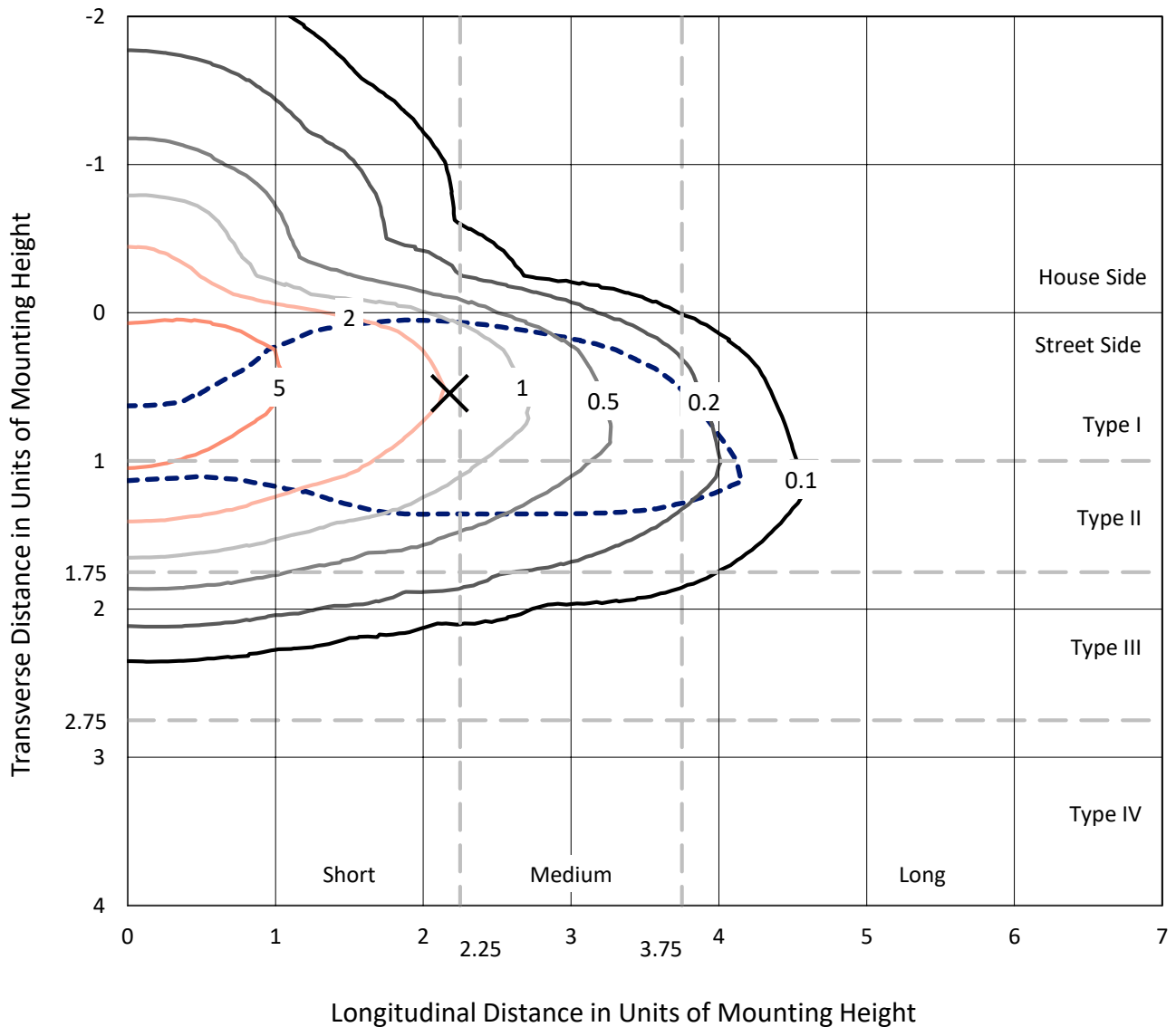




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Iso-Footcandle Lines of Horizontal Illumination

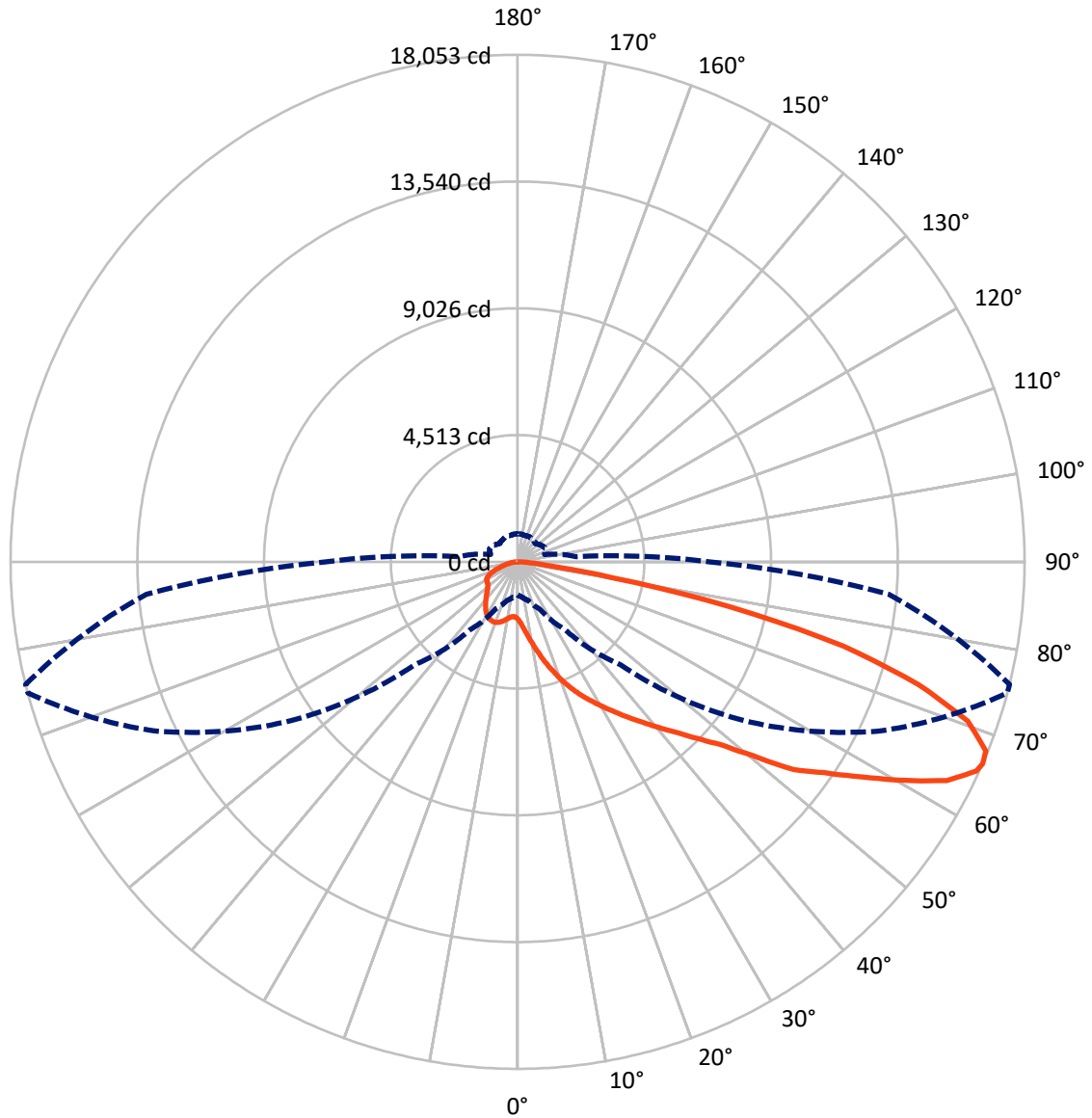
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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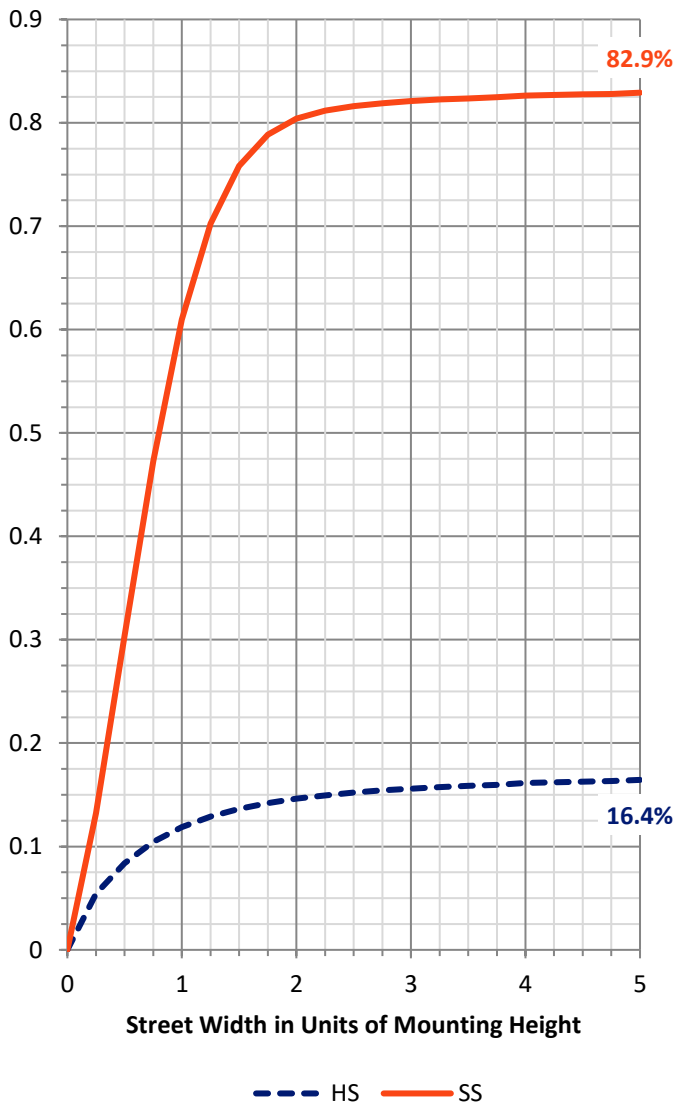
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3764.4	0.0	3764.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18607.6	0.0	18607.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	22372.0	0.0	22372.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	1.1
10°-20°	975.6	4.4
20°-30°	1895.9	8.5
30°-40°	3094.5	13.8
40°-50°	4227.9	18.9
50°-60°	4924.6	22.0
60°-70°	4415.0	19.7
70°-80°	2231.2	10.0
80°-90°	360.3	1.6
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°	22372.0	100.0
0°-180°	22372.0	100.0



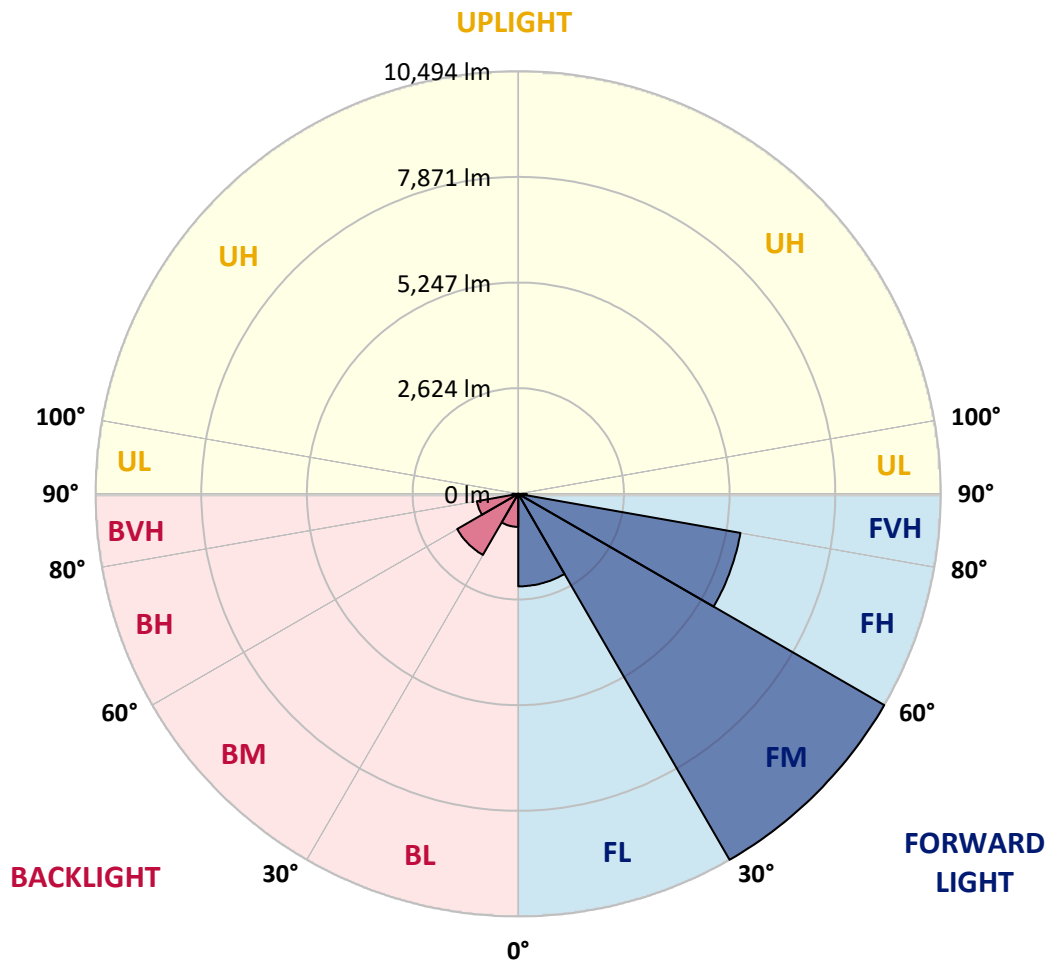
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2297.5	10.3			
FM (30°-60°)	10494.0	46.9			
FH (60°-80°)	5603.2	25.0			G3/7500
FVH (80°-90°)	212.8	1.0			G2/225
BL (0°-30°)	821.0	3.7	B2/1000		
BM (30°-60°)	1753.0	7.8	B2/2500		
BH (60°-80°)	1042.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	147.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1
2.5°	2712.2	2671.2	2667.4	2607.4	2593.7	2479.0	2394.7	2306.6	2206.4	2186.6	2107.6
5°	3483.9	3480.1	3427.6	3329.6	3253.0	3057.1	2863.3	2658.3	2433.5	2397.0	2219.3
7.5°	4178.1	4171.9	4131.7	4026.1	3915.3	3674.5	3398.0	3083.6	2719.0	2665.1	2370.4
10°	4705.2	4702.8	4689.2	4611.7	4517.5	4286.6	3981.3	3552.2	3050.9	2977.2	2559.5
12.5°	5112.2	5116.8	5125.9	5098.5	5053.7	4857.1	4544.1	4049.0	3404.9	3332.0	2770.0
15°	5388.0	5401.6	5448.7	5487.5	5510.9	5390.2	5087.2	4557.0	3801.4	3714.0	3003.1
17.5°	5527.0	5542.1	5623.4	5740.4	5848.2	5836.1	5595.2	5041.6	4181.8	4097.5	3253.7
20°	5646.9	5658.3	5749.4	5890.0	6080.6	6164.9	6029.7	5508.0	4598.8	4498.5	3519.6
22.5°	5994.8	6009.2	6036.5	6116.3	6284.9	6439.9	6374.6	5949.2	4980.8	4887.5	3771.7
25°	6666.2	6683.7	6624.4	6556.8	6588.7	6696.5	6708.7	6351.8	5368.2	5262.6	4042.8
27.5°	7475.0	7500.2	7399.1	7225.2	7073.2	7031.5	7017.1	6681.3	5738.1	5615.8	4310.9
30°	8267.2	8310.5	8179.1	7953.6	7674.8	7478.8	7333.8	7004.2	6102.7	5985.7	4563.8
32.5°	9041.1	9023.7	8833.0	8612.8	8286.2	8040.9	7690.0	7350.5	6512.7	6378.3	4815.3
35°	9571.3	9577.3	9400.4	9139.1	8827.7	8639.4	8167.0	7724.2	6931.3	6807.5	5100.9
37.5°	10022.4	9994.4	9793.8	9550.0	9281.9	9201.5	8725.2	8135.9	7384.7	7249.5	5404.7
40°	10172.9	10140.2	10008.7	9833.3	9618.4	9611.5	9341.2	8602.2	7897.4	7763.7	5747.2
42.5°	10081.7	10039.9	9986.0	9938.1	9872.1	9902.4	9920.0	9149.0	8460.9	8311.3	6143.6
45°	9745.2	9682.2	9720.1	9824.2	9967.7	10139.4	10442.5	9754.3	9092.1	8966.7	6609.2
47.5°	9228.0	9171.1	9289.5	9512.0	9902.4	10336.9	10936.9	10422.7	9845.5	9720.9	7272.3
50°	8500.4	8517.1	8686.5	9091.3	9681.4	10428.0	11546.0	11307.5	10940.7	10824.5	8176.8
52.5°	7306.4	7309.5	7786.4	8451.0	9289.5	10381.0	11884.0	12438.4	12436.2	12295.7	9038.2
55°	6197.6	6265.1	6642.7	7526.0	8654.5	10192.6	12120.2	12988.3	13418.2	13253.4	9841.0
57.5°	5114.5	5154.0	5511.8	6398.8	7748.5	9690.5	12362.5	13648.3	14549.8	14445.8	10838.9
60°	3882.6	3943.3	4313.3	5132.7	6589.5	8799.7	12385.3	14337.2	15902.5	15797.7	11953.2
62.5°	2520.0	2624.8	2971.2	3739.0	5187.4	7518.3	11856.6	14787.6	17184.6	17147.4	12942.0
65°	1448.4	1527.4	1768.2	2360.5	3578.8	5909.7	10599.7	14614.4	17973.7	17952.4	13311.9
66°	1183.3	1232.7	1417.3	1844.8	2953.0	5189.7	9869.0	14249.1	18052.0	18052.7	13269.3
67.5°	946.4	968.3	1051.2	1320.7	2179.0	4113.5	8563.4	13443.3	17954.7	17981.3	12995.2
70°	783.1	794.4	820.2	885.6	1189.4	2480.5	6078.3	11349.3	16978.8	16999.3	11925.0
72.5°	702.6	709.4	719.2	728.4	839.2	1386.1	3712.5	9079.1	14886.3	14912.9	10294.3
75°	636.4	640.3	638.8	639.5	704.1	883.3	1918.5	6778.6	12036.6	11983.5	7885.9
77.5°	559.0	562.7	555.2	556.7	622.8	679.0	954.7	4745.4	8122.9	7747.7	4443.1
80°	472.4	475.5	472.4	477.7	542.3	512.6	555.2	2669.6	3591.7	3397.3	1579.8
82.5°	357.0	369.9	379.0	400.3	446.6	364.6	371.4	1039.8	1093.7	1041.3	484.6
85°	156.5	190.6	285.6	306.1	335.7	218.7	243.8	423.8	445.1	431.4	176.2
87.5°	41.0	44.8	141.2	177.7	186.1	98.7	126.9	192.9	203.5	192.9	58.5
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°	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1	2043.1
2.5°	2065.9	2028.6	1961.8	1902.6	1857.8	1827.4	1797.0	1781.8	1772.6	1763.6	1765.1
5°	2131.9	2056.8	1942.1	1860.8	1815.2	1786.3	1771.2	1765.1	1761.3	1752.1	1752.1
7.5°	2231.4	2125.1	1967.1	1883.6	1847.9	1825.8	1816.7	1813.7	1809.2	1798.5	1800.0
10°	2356.7	2207.9	2019.5	1938.3	1905.6	1881.3	1868.4	1863.8	1855.5	1843.3	1844.8
12.5°	2504.1	2310.4	2088.6	2003.6	1964.1	1931.5	1910.1	1897.3	1882.8	1866.8	1867.7
15°	2665.1	2422.0	2163.1	2062.1	2008.1	1962.6	1928.4	1906.3	1883.6	1863.8	1863.1
17.5°	2828.4	2529.9	2220.1	2093.9	2021.1	1961.0	1914.7	1880.5	1852.5	1828.2	1825.8
20°	3004.6	2627.2	2251.9	2091.0	1996.8	1925.3	1863.8	1821.3	1790.2	1765.8	1762.0
22.5°	3183.8	2718.3	2257.2	2059.7	1942.8	1855.5	1790.9	1743.9	1711.9	1686.8	1677.7
25°	3347.9	2788.9	2235.2	1999.8	1867.7	1773.5	1710.4	1662.5	1636.7	1607.1	1598.0
27.5°	3497.5	2838.2	2191.2	1923.1	1783.4	1690.7	1631.4	1590.4	1562.3	1539.5	1531.9
30°	3631.9	2864.9	2119.0	1831.9	1696.7	1612.4	1562.3	1534.2	1509.9	1481.1	1475.8
32.5°	3759.5	2864.9	2026.4	1732.4	1610.9	1543.3	1513.7	1496.3	1468.9	1440.8	1433.2
35°	3887.2	2847.4	1917.0	1628.3	1531.9	1493.9	1492.4	1471.9	1430.1	1392.2	1382.3
37.5°	4021.6	2811.7	1794.0	1531.2	1467.4	1471.9	1484.8	1439.2	1380.0	1326.1	1311.7
40°	4173.5	2762.3	1666.4	1446.9	1413.4	1462.1	1464.3	1392.2	1276.7	1227.4	1214.5
42.5°	4352.0	2712.9	1547.9	1372.4	1370.9	1432.4	1425.5	1290.4	1221.3	1196.2	1189.4
45°	4586.7	2684.8	1435.4	1301.8	1337.5	1384.6	1359.5	1234.2	1205.3	1190.9	1184.8
47.5°	4956.6	2699.3	1332.2	1245.6	1304.1	1336.8	1236.4	1211.4	1190.9	1173.5	1167.3
50°	5419.8	2691.0	1248.6	1206.8	1266.1	1286.6	1181.0	1181.8	1171.1	1151.4	1142.3
52.5°	5768.4	2625.7	1194.7	1184.8	1232.7	1197.8	1146.1	1153.0	1147.6	1118.8	1108.9
55°	6104.9	2569.4	1167.3	1176.5	1208.4	1086.8	1105.1	1121.8	1116.5	1088.3	1083.9
57.5°	6523.4	2558.8	1150.6	1178.8	1187.9	1031.4	1065.6	1087.6	1083.9	1071.7	1069.4
60°	7036.1	2561.8	1135.5	1182.5	1165.1	990.4	1028.3	1056.5	1058.8	1056.5	1055.0
62.5°	7317.9	2479.0	1097.5	1171.9	1124.8	954.7	989.7	1030.7	1031.4	1036.0	1035.2
65°	7078.6	2231.4	1026.8	1134.7	1057.2	925.1	956.2	1001.0	989.7	1010.2	1010.2
66°	6846.2	2088.6	991.9	1110.4	1028.3	913.7	945.6	985.9	971.4	999.6	999.6
67.5°	6371.5	1847.9	928.8	1058.8	987.3	897.7	933.4	960.8	941.0	982.8	979.8
70°	5504.1	1429.4	802.1	941.8	919.7	874.2	916.7	910.7	881.8	945.6	933.4
72.5°	4640.6	1086.1	644.1	788.4	817.2	844.5	893.2	846.9	810.4	855.2	828.6
75°	3600.8	816.5	508.9	613.0	690.4	798.2	865.0	773.2	720.7	716.2	701.8
77.5°	1946.7	560.5	403.3	467.8	548.4	740.5	846.1	694.2	615.2	596.9	585.6
80°	770.9	364.6	293.2	354.7	383.5	656.9	800.5	602.2	507.3	489.2	471.6
82.5°	318.2	215.7	189.1	237.7	249.8	562.0	718.5	493.7	391.9	542.3	575.7
85°	136.8	118.5	112.4	123.1	141.2	394.1	571.9	376.7	423.0	377.5	300.1
87.5°	41.0	50.1	47.9	47.0	51.6	94.2	304.5	209.6	310.7	117.7	88.1
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)