

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: P383078

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
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-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22031.1 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

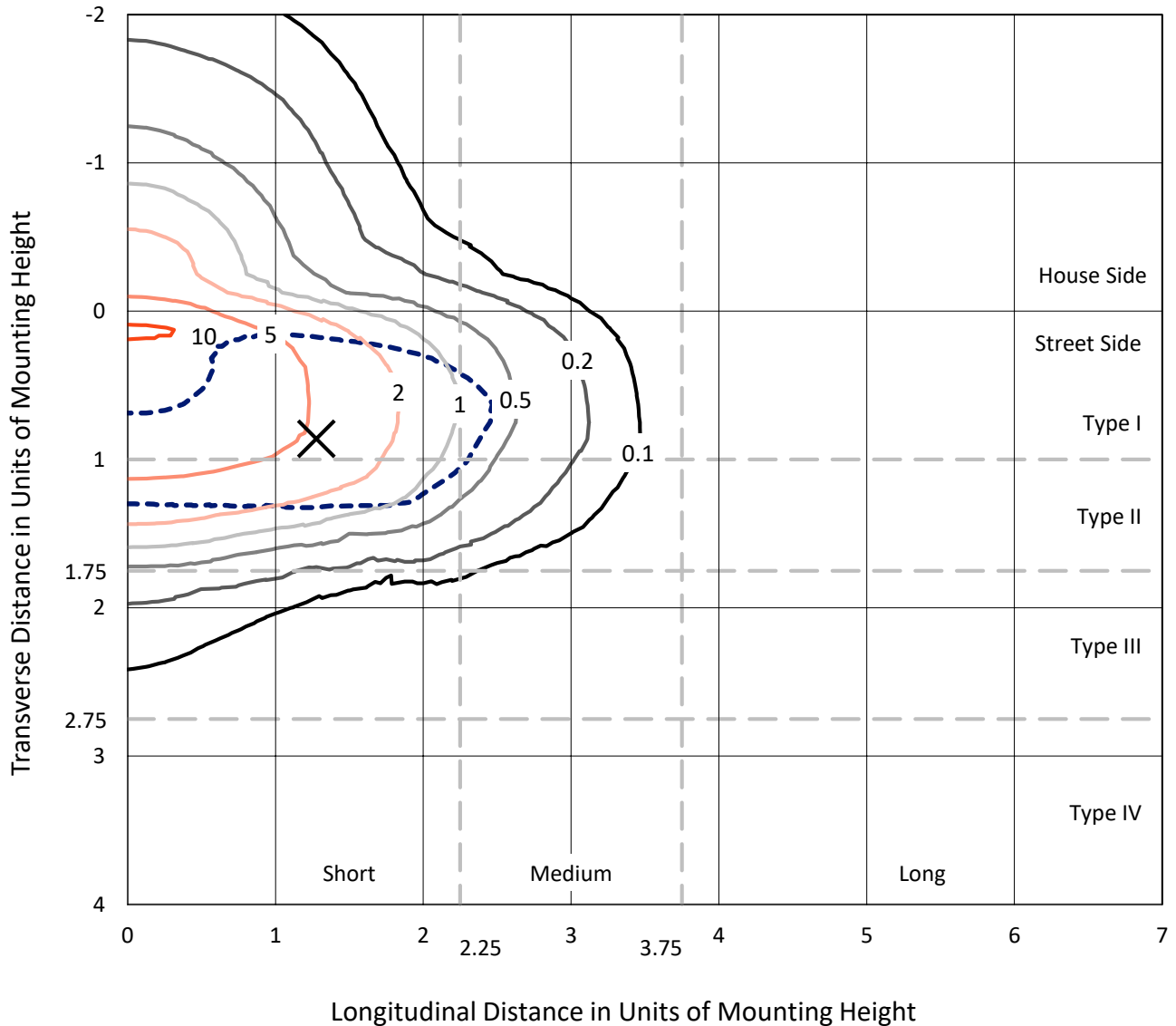
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

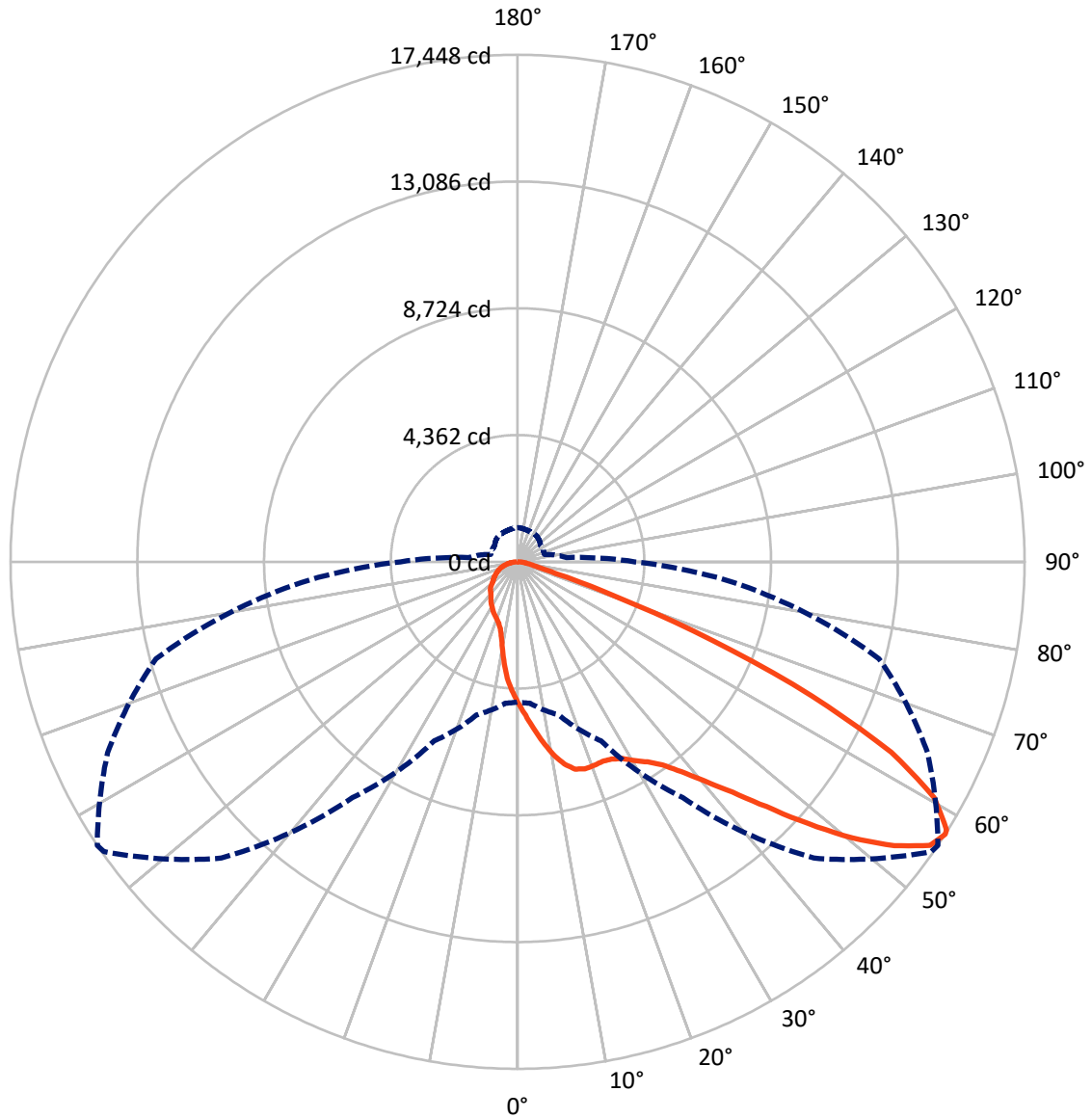
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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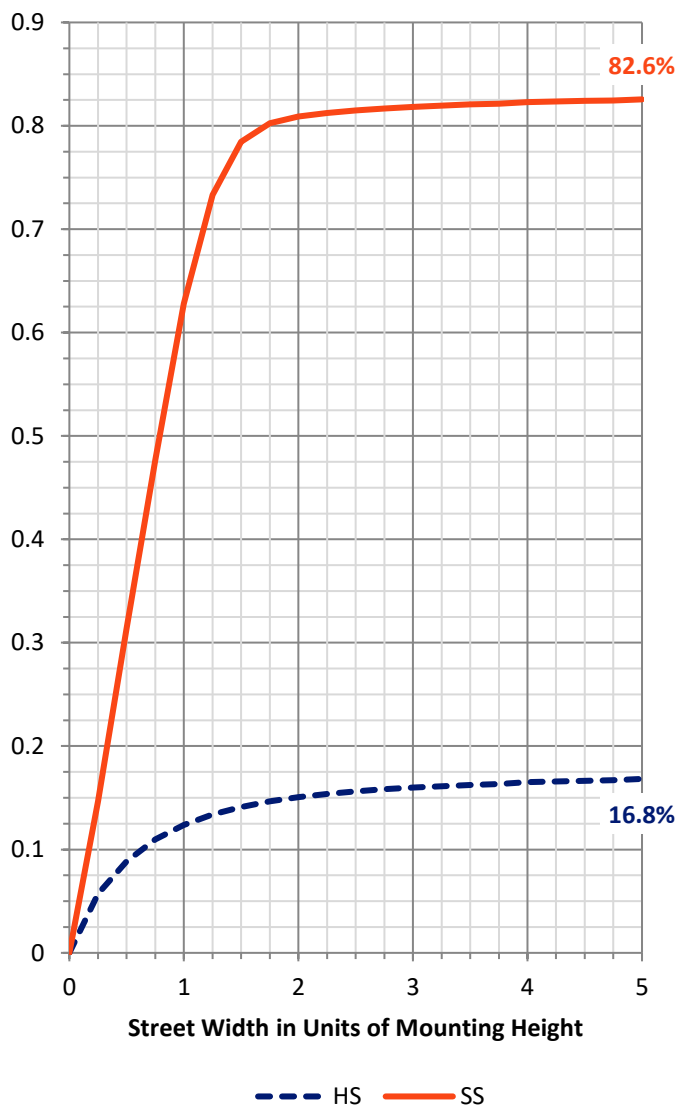
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3797.7	0.0	3797.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	18233.4	0.0	18233.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	22031.1	0.0	22031.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.8	2.1
10°-20°	1319.7	6.0
20°-30°	2149.6	9.8
30°-40°	3213.3	14.6
40°-50°	4874.0	22.1
50°-60°	5462.8	24.8
60°-70°	3226.6	14.6
70°-80°	1057.2	4.8
80°-90°	261.2	1.2
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°	22031.1	100.0
0°-180°	22031.1	100.0

Coefficient of Utilization



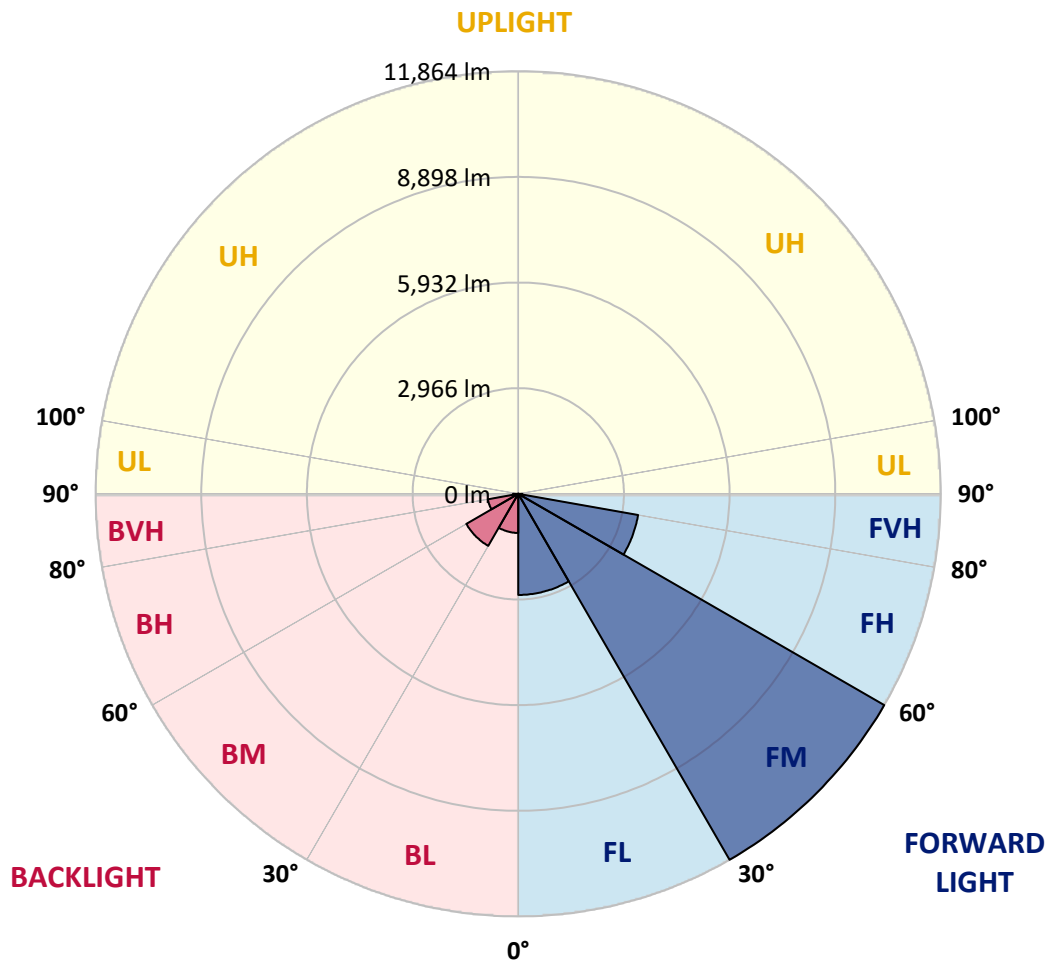
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.9	12.9			
FM (30°-60°)	11864.5	53.9			
FH (60°-80°)	3416.0	15.5			G2/5000
FVH (80°-90°)	115.0	0.5			G2/225
BL (0°-30°)	1098.1	5.0	B3/2500		
BM (30°-60°)	1685.7	7.7	B2/2500		
BH (60°-80°)	867.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	146.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5
2.5°	5611.1	5662.6	5639.9	5561.2	5500.5	5415.0	5319.6	5290.8	5190.1	5077.3	4941.8
5°	6499.2	6473.4	6436.3	6313.8	6184.3	6033.5	5794.3	5756.5	5532.4	5277.2	5007.6
7.5°	7005.0	7002.7	6980.7	6908.8	6790.7	6593.9	6305.4	6260.7	5922.3	5511.9	5094.0
10°	6931.6	6926.2	6962.6	7037.6	7073.1	7032.3	6789.2	6744.5	6328.8	5771.6	5193.9
12.5°	6514.3	6517.4	6575.7	6733.1	6947.4	7204.9	7165.5	7143.5	6750.6	6065.4	5315.0
15°	6189.6	6196.4	6242.6	6379.6	6632.4	7099.6	7394.2	7401.7	7158.7	6389.4	5456.6
17.5°	6047.2	6061.6	6082.8	6179.0	6410.6	6889.9	7448.7	7489.5	7516.0	6725.6	5592.9
20°	6092.6	6106.3	6112.3	6173.6	6363.7	6762.7	7410.8	7484.2	7790.1	7042.0	5729.2
22.5°	6296.3	6304.6	6308.4	6324.3	6471.9	6799.0	7385.8	7463.0	7988.5	7326.0	5832.1
25°	6634.0	6628.0	6603.6	6583.2	6682.5	6942.9	7443.3	7516.8	8149.7	7583.4	5899.6
27.5°	7038.3	7030.7	6983.8	6927.7	6984.6	7167.0	7609.2	7667.5	8294.4	7824.2	5933.6
30°	7523.6	7503.9	7415.3	7348.7	7370.7	7503.2	7882.5	7935.5	8517.7	8097.5	5966.9
32.5°	8084.6	8063.5	7935.5	7824.9	7824.9	7935.5	8164.2	8208.1	8707.0	8406.4	6020.7
35°	8787.3	8760.7	8594.2	8408.7	8356.4	8412.4	8548.0	8579.1	9047.7	8795.6	6118.4
37.5°	9615.5	9579.9	9364.2	9115.8	9001.5	8998.5	9096.2	9159.7	9592.1	9306.6	6284.2
40°	10446.1	10421.1	10232.6	10037.2	9813.2	9741.2	9891.9	9911.6	10303.8	9941.1	6496.1
42.5°	11088.2	11083.6	11048.8	11074.5	10845.2	10699.8	10817.9	10833.8	11173.0	10627.8	6721.8
45°	11427.4	11434.9	11603.8	11977.8	12062.6	11956.6	12014.9	12019.5	12166.3	11320.6	6928.5
47.5°	11155.6	11195.0	11622.0	12458.6	13152.9	13504.9	13408.0	13464.0	13129.4	11915.7	7090.6
50°	10096.3	10144.8	10871.6	12244.4	13661.6	15003.3	14952.5	14939.7	13906.2	12351.9	7178.3
52.5°	8784.2	8822.0	9421.8	11130.6	13288.4	15831.6	16297.2	16230.6	14596.7	12678.2	7195.0
55°	6786.1	6845.2	7419.9	8907.6	11778.7	15515.1	17286.1	17226.3	15225.9	12849.3	7175.3
57°	4824.4	4886.5	5457.4	6798.2	9908.6	14419.5	17384.4	17448.1	15565.9	12878.0	7197.3
57.5°	4305.1	4368.7	4934.2	6236.5	9325.5	14023.6	17299.7	17405.7	15627.2	12873.5	7209.4
60°	2167.6	2191.9	2552.3	3481.3	5895.0	11337.3	16193.5	16466.8	15682.4	12650.9	7261.6
62.5°	1347.7	1330.2	1318.9	1603.6	2868.0	7518.3	13910.7	14436.9	14624.7	12111.8	7135.2
65°	1184.9	1152.3	1027.4	1004.7	1266.7	3651.7	10475.6	11130.6	12364.7	11262.3	6833.8
67.5°	1113.0	1081.2	940.4	855.5	856.3	1447.6	6503.8	7241.2	9632.2	9826.1	6122.9
70°	1038.8	1010.0	878.3	778.3	729.1	801.8	2992.2	3551.7	6278.9	7723.5	5117.5
72.5°	943.4	923.7	798.8	695.8	643.6	600.4	1145.5	1353.0	3635.0	5187.1	3553.9
75°	843.4	825.3	718.5	620.1	556.5	472.5	645.1	695.0	1846.6	2653.7	1749.7
77.5°	733.7	723.1	639.0	548.1	497.4	391.4	456.6	480.8	792.0	1138.0	877.5
80°	583.7	604.2	558.7	488.3	441.4	313.5	323.3	339.2	461.1	555.8	498.2
82.5°	380.1	415.7	437.6	396.7	363.4	246.9	232.4	239.2	300.6	339.2	216.6
85°	158.3	177.9	287.8	259.7	241.6	180.2	155.9	159.0	186.2	193.1	88.6
87.5°	70.4	75.0	126.4	118.9	102.2	62.0	66.6	72.7	99.2	93.9	34.1
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°	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5	4886.5
2.5°	4891.1	4827.5	4718.5	4598.0	4499.7	4420.8	4341.4	4286.9	4223.3	4189.2	4171.7
5°	4894.8	4769.9	4540.5	4305.1	4094.5	3902.3	3719.0	3578.2	3446.4	3375.3	3355.6
7.5°	4910.7	4722.9	4352.0	3964.3	3590.3	3248.9	2985.3	2820.4	2701.4	2648.5	2633.3
10°	4923.6	4667.7	4118.7	3544.9	3036.1	2690.1	2485.6	2393.3	2352.4	2345.5	2338.7
12.5°	4953.9	4610.9	3873.5	3107.3	2605.3	2366.0	2294.9	2288.8	2300.2	2316.9	2316.9
15°	5001.6	4554.9	3593.4	2731.8	2331.2	2247.2	2261.5	2294.9	2325.9	2351.7	2355.4
17.5°	5036.4	4486.0	3292.0	2431.2	2185.0	2207.8	2259.3	2306.2	2338.0	2363.0	2365.3
20°	5061.4	4379.2	2970.2	2201.7	2101.0	2171.4	2235.8	2277.4	2299.4	2324.4	2328.2
22.5°	5048.5	4236.1	2684.8	2037.5	2032.9	2118.4	2179.8	2229.8	2213.1	2188.9	2204.8
25°	4986.5	4039.3	2391.0	1914.8	1961.0	2047.3	2123.0	2089.6	2033.7	2023.0	2029.1
27.5°	4875.9	3788.0	2119.2	1801.2	1877.7	1981.4	1976.8	1943.6	1923.8	1910.2	1918.5
30°	4757.0	3515.4	1881.4	1702.0	1785.3	1870.8	1853.5	1852.7	1833.0	1811.0	1821.6
32.5°	4639.7	3241.3	1692.9	1620.2	1715.6	1727.0	1764.9	1776.2	1737.6	1691.4	1688.4
35°	4537.5	2982.3	1549.8	1546.1	1631.6	1633.1	1688.4	1672.5	1576.4	1528.7	1528.7
37.5°	4461.0	2724.1	1440.8	1479.4	1521.0	1560.4	1588.5	1522.6	1506.7	1480.2	1479.4
40°	4427.7	2497.0	1372.6	1428.7	1443.1	1493.1	1421.2	1446.9	1454.4	1440.8	1440.8
42.5°	4392.9	2299.4	1313.6	1390.1	1387.8	1381.0	1344.7	1377.9	1408.2	1409.1	1406.7
45°	4358.1	2129.1	1261.4	1307.5	1339.4	1265.9	1272.8	1308.4	1350.7	1365.8	1365.8
47.5°	4319.4	1994.3	1213.7	1220.5	1269.7	1220.5	1215.2	1242.4	1292.4	1316.6	1322.0
50°	4234.6	1873.2	1159.1	1144.0	1157.6	1174.3	1178.9	1191.7	1247.0	1285.6	1294.7
52.5°	4117.3	1764.9	1089.5	1073.6	1073.6	1136.5	1157.6	1161.5	1208.4	1254.6	1263.6
55°	4019.6	1696.0	1017.6	1014.5	1011.6	1096.3	1132.7	1138.7	1171.2	1207.7	1212.1
57°	4026.4	1690.7	962.3	965.4	964.6	1055.4	1109.2	1122.0	1138.7	1169.7	1175.1
57.5°	4030.2	1694.5	950.2	951.7	950.9	1044.1	1102.4	1116.7	1129.6	1162.2	1167.5
60°	4087.0	1704.3	901.0	884.3	888.1	983.5	1063.7	1081.9	1090.3	1133.4	1140.2
62.5°	4003.0	1660.4	861.6	821.5	821.5	919.9	1010.0	1038.8	1051.6	1109.9	1121.3
65°	3759.2	1537.0	815.4	750.4	757.9	856.3	945.6	992.6	1012.3	1085.0	1097.1
67.5°	3382.8	1393.9	766.2	686.7	694.3	789.7	879.0	929.8	960.8	1057.7	1067.6
70°	2893.0	1219.0	699.6	619.3	628.4	717.0	800.3	857.9	904.0	1032.0	1035.0
72.5°	2132.9	999.5	606.4	545.1	555.0	632.2	720.8	787.4	849.5	967.6	966.1
75°	1268.2	781.4	503.5	470.2	477.0	549.0	648.8	729.9	823.0	942.6	957.0
77.5°	769.3	588.3	410.3	393.7	402.1	475.5	597.4	683.7	811.7	888.9	884.3
80°	464.8	420.2	327.8	317.2	325.6	406.6	552.7	648.8	709.5	759.4	759.4
82.5°	243.0	256.6	240.8	232.4	243.8	330.1	502.8	566.3	626.9	538.3	502.8
85°	99.2	134.0	146.2	145.4	152.2	228.7	433.8	484.6	404.3	383.9	392.9
87.5°	33.3	56.8	71.2	61.3	64.4	143.8	300.6	233.9	277.9	193.9	184.0
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)