

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: P647923

Luminaire Tested: **GALN-SA5A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16180.7 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

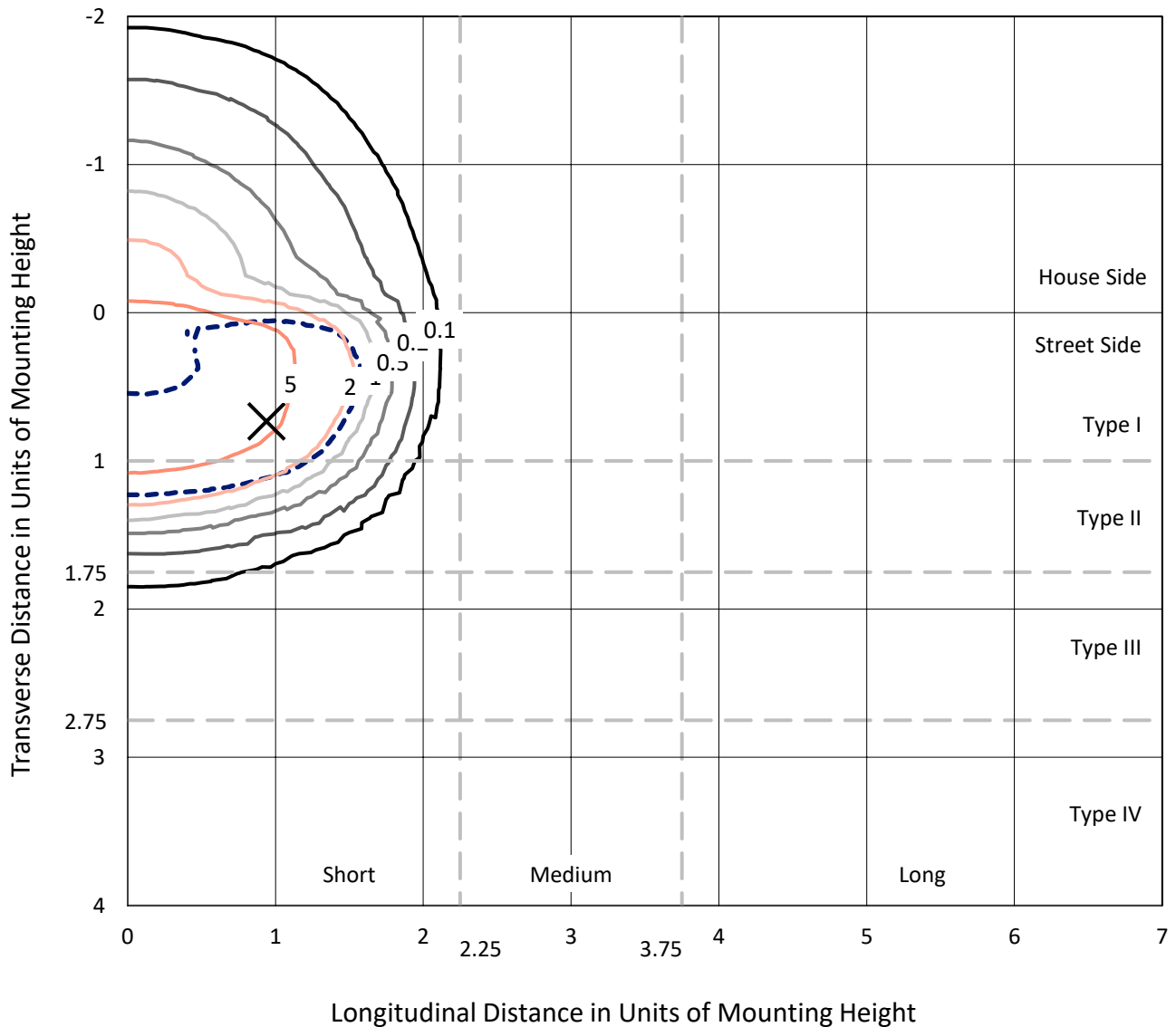
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

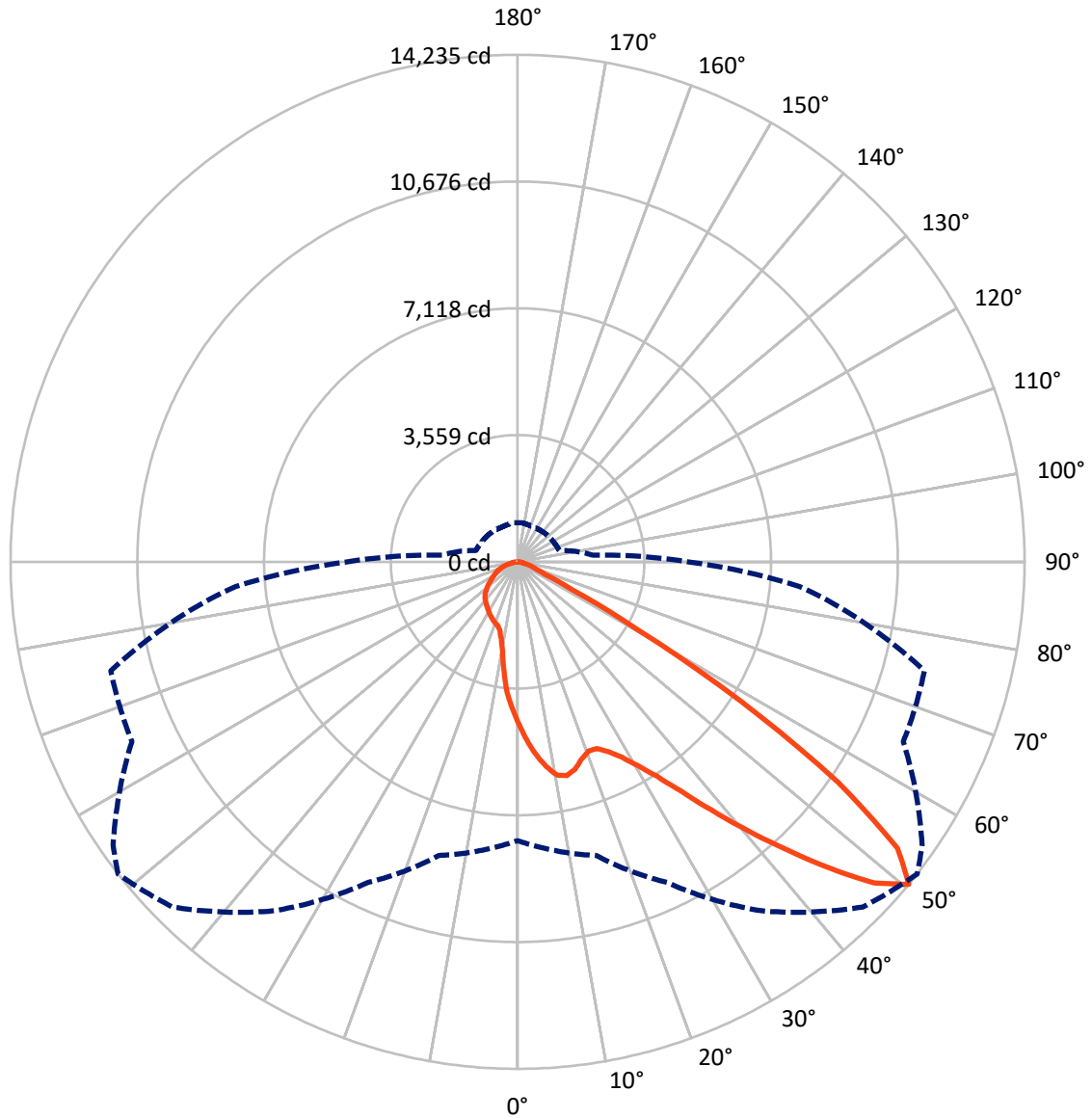
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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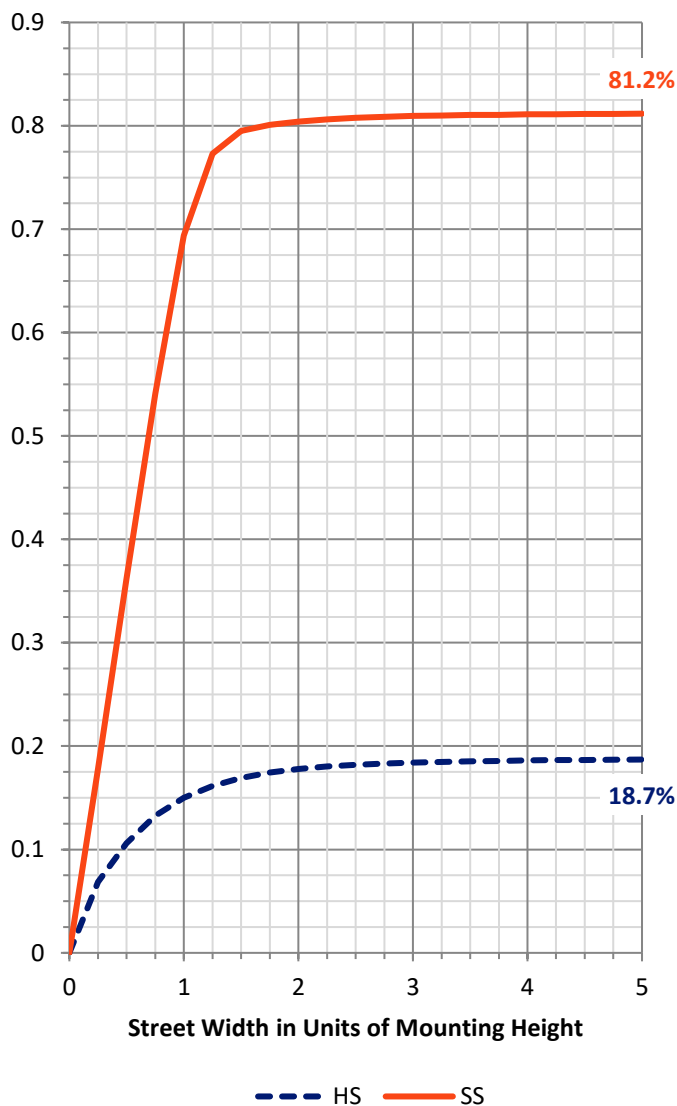
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3041.6	0.0	3041.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13139.1	0.0	13139.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	16180.7	0.0	16180.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.4	2.6
10°-20°	1126.8	7.0
20°-30°	1898.0	11.7
30°-40°	3185.0	19.7
40°-50°	4872.2	30.1
50°-60°	3552.2	22.0
60°-70°	790.5	4.9
70°-80°	285.1	1.8
80°-90°	50.5	0.3
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°	16180.7	100.0
0°-180°	16180.7	100.0

Coefficient of Utilization

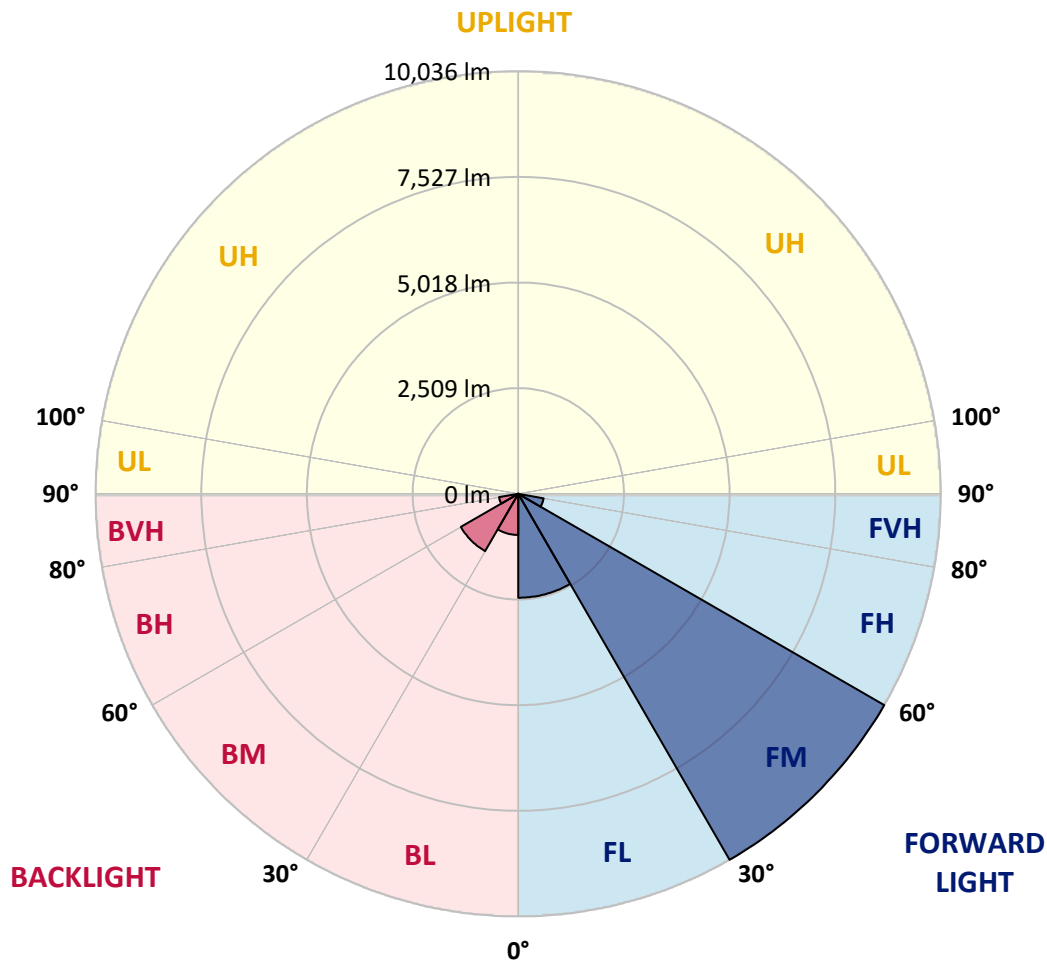


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2468.1	15.3			
FM (30°-60°)	10036.1	62.0			
FH (60°-80°)	612.3	3.8			G0/660
FVH (80°-90°)	22.6	0.1			G1/100
BL (0°-30°)	977.0	6.0	B2/1000		
BM (30°-60°)	1573.3	9.7	B2/2500		
BH (60°-80°)	463.4	2.9	B1/500		G1/500
BVH (80°-90°)	27.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1
2.5°	5370.4	5267.0	5278.7	5204.6	5124.7	5101.2	5019.3	4941.4	4882.8	4758.1	4643.0
5°	5869.5	5838.4	5791.5	5733.0	5672.6	5524.4	5440.5	5343.0	5128.5	4935.5	4744.4
7.5°	5941.6	5935.8	5961.2	5961.2	5982.6	5926.1	5807.1	5738.8	5510.8	5196.8	4841.8
10°	5434.6	5452.2	5575.0	5735.0	5957.3	6111.3	6091.8	6074.3	5824.7	5395.7	4956.9
12.5°	5031.0	4992.0	5064.2	5200.7	5534.1	5906.6	6158.1	6160.1	6095.7	5713.6	5040.8
15°	4802.8	4830.2	4849.7	4914.0	5165.6	5596.5	6039.2	6169.8	6452.5	5937.8	5173.4
17.5°	4949.1	4857.5	4853.6	4869.2	4997.9	5321.6	5818.8	6043.0	6647.6	6226.4	5337.2
20°	5140.2	5138.3	5083.7	5064.2	5062.3	5350.8	5674.6	5978.8	6750.9	6600.8	5502.9
22.5°	5475.6	5475.6	5385.9	5343.0	5251.3	5487.3	5694.1	5900.7	6922.5	6858.2	5582.9
25°	6037.2	5945.6	5791.5	5686.2	5633.6	5717.4	5900.7	6085.9	7072.7	7131.2	5748.6
27.5°	6555.9	6411.6	6335.6	6154.2	6084.0	6035.3	6203.0	6390.1	7248.2	7556.3	5838.4
30°	7144.8	7119.5	6983.0	6749.0	6575.4	6485.7	6639.8	6825.0	7570.0	7991.1	6045.0
32.5°	8197.9	7967.7	7782.5	7495.8	7213.1	7021.9	7174.1	7296.9	8104.2	8445.5	6271.2
35°	9334.7	9260.6	8940.8	8424.1	7991.1	7819.5	7909.2	8000.9	8726.3	9139.7	6651.5
37.5°	10452.0	10350.6	10087.4	9652.5	9126.0	8777.0	8841.3	8948.6	9424.4	10075.7	7115.6
40°	11255.5	11130.7	10998.0	10933.7	10411.1	9933.4	9896.3	9923.6	10368.2	10953.2	7630.4
42.5°	11314.0	11468.0	11508.9	11768.3	11645.5	11253.5	11025.3	11031.2	11269.1	11821.0	8151.0
45°	11191.1	11048.8	11351.0	12058.8	12464.4	12647.7	12263.6	12214.9	11826.8	12324.0	8410.4
47.5°	9902.1	9941.1	10452.0	11571.3	12743.3	13562.3	13472.6	13310.8	12125.1	12306.5	8369.4
50°	7827.3	8063.3	8537.1	9931.4	11963.3	13706.6	14235.1	13860.7	11947.7	11822.9	7952.1
52.5°	5212.4	5309.8	5621.9	7421.7	9619.4	12251.9	13357.6	13443.3	11783.9	11189.1	7423.7
55°	2320.5	2312.7	2751.5	3876.6	6035.3	9323.0	10914.2	11436.8	11154.1	10543.7	6908.9
57.5°	982.8	1015.9	1195.3	1675.1	2967.9	5625.8	7394.4	7852.7	8578.1	8658.0	5300.1
60°	664.9	668.8	717.6	838.5	1242.2	2642.2	3878.6	4428.5	4947.2	4912.1	2811.9
62.5°	522.6	536.3	573.3	622.0	737.1	1199.2	1735.5	2041.7	2074.8	1745.2	1066.7
65°	446.5	448.5	485.5	526.5	577.2	698.1	836.6	852.1	861.9	830.7	783.9
67.5°	368.6	372.5	401.7	448.5	495.3	534.3	573.3	592.8	637.7	725.4	713.7
70°	292.5	298.3	323.7	362.7	405.6	429.0	477.8	495.3	536.3	604.5	631.8
72.5°	222.3	224.3	245.7	273.0	312.0	335.4	376.4	395.9	423.1	481.6	507.0
75°	159.9	165.8	181.3	195.0	200.8	216.4	255.4	276.9	315.9	341.2	343.2
77.5°	83.9	87.8	91.7	91.7	111.2	140.4	165.8	177.4	204.8	224.3	214.5
80°	33.1	35.1	44.9	60.4	78.0	101.4	118.9	124.8	148.2	159.9	165.8
82.5°	19.5	21.5	29.3	42.9	56.5	72.1	85.8	91.7	107.3	120.9	124.8
85°	9.8	11.7	17.5	27.3	37.0	44.9	42.9	41.0	41.0	39.0	41.0
87.5°	3.9	3.9	5.9	5.9	5.9	7.8	9.8	9.8	9.8	11.7	11.7
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°	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1	4561.1
2.5°	4566.9	4488.9	4416.7	4284.2	4139.9	4098.9	3931.2	3870.8	3827.9	3777.2	3761.5
5°	4590.3	4487.0	4254.9	3987.7	3775.2	3502.2	3322.8	3129.7	2989.3	2954.3	2944.5
7.5°	4639.0	4461.6	4061.9	3658.3	3223.4	2852.9	2570.1	2418.0	2283.5	2275.6	2262.0
10°	4693.7	4385.6	3851.3	3217.5	2661.7	2318.5	2148.9	2082.6	2049.4	2041.7	2037.8
12.5°	4738.6	4370.0	3615.3	2788.5	2264.0	2057.3	2006.6	2000.7	2014.3	2018.3	2026.1
15°	4758.1	4307.6	3330.6	2404.4	2016.3	1940.3	1961.7	1985.1	1994.8	2020.2	2000.7
17.5°	4795.1	4227.7	2979.6	2100.2	1877.9	1891.5	1928.5	1955.9	1971.4	1989.0	1963.7
20°	4814.6	4155.5	2650.1	1918.8	1829.1	1854.5	1905.2	1926.6	1946.1	1953.9	1924.7
22.5°	4797.0	4007.2	2359.5	1772.6	1782.3	1815.5	1860.3	1883.7	1872.0	1840.8	1823.3
25°	4750.2	3798.6	2057.3	1679.0	1716.0	1774.5	1809.6	1792.1	1770.6	1753.1	1747.2
27.5°	4748.3	3543.2	1838.9	1593.2	1659.5	1739.4	1727.7	1712.1	1721.9	1708.2	1692.6
30°	4758.1	3295.5	1659.5	1544.4	1618.5	1657.5	1671.2	1655.6	1667.2	1641.9	1649.7
32.5°	4707.3	3053.7	1542.4	1487.9	1569.8	1567.8	1612.7	1624.3	1597.1	1544.4	1552.2
35°	4728.8	2858.7	1443.0	1462.5	1515.2	1515.2	1550.3	1536.6	1464.4	1433.3	1441.0
37.5°	4877.0	2667.6	1394.3	1427.4	1462.5	1478.1	1466.4	1407.9	1390.4	1390.4	1394.3
40°	5017.4	2503.8	1365.0	1419.6	1413.8	1423.5	1337.7	1343.5	1343.5	1345.5	1335.7
42.5°	5142.2	2392.7	1341.6	1372.8	1382.5	1331.9	1279.2	1273.4	1287.0	1285.1	1277.2
45°	5187.0	2301.0	1308.5	1320.1	1328.0	1244.1	1218.7	1207.1	1222.7	1228.5	1236.3
47.5°	5015.4	2225.0	1271.4	1248.0	1232.4	1177.8	1144.7	1123.2	1142.7	1175.8	1183.7
50°	4795.1	2125.5	1212.9	1168.1	1134.9	1111.5	1088.1	1066.7	1080.3	1103.7	1097.8
52.5°	4469.4	1969.5	1138.8	1092.0	1035.4	1041.3	1019.9	1008.2	1015.9	1015.9	1010.1
55°	4005.3	1618.5	1014.0	980.9	934.0	949.6	953.5	938.0	922.4	936.0	924.3
57.5°	2733.9	1142.7	904.8	904.8	858.0	879.5	877.5	840.5	803.4	807.3	799.5
60°	1581.4	910.6	834.6	826.8	778.1	795.6	799.5	774.2	717.6	721.5	713.7
62.5°	899.0	778.1	729.3	717.6	707.8	723.5	723.5	690.3	641.6	645.4	637.7
65°	764.4	721.5	651.3	649.3	645.4	649.3	633.8	598.7	555.8	538.2	540.1
67.5°	694.2	666.9	598.7	581.1	569.4	567.4	538.2	505.0	485.5	470.0	468.0
70°	608.4	586.9	536.3	512.9	501.1	473.9	444.6	423.1	395.9	388.1	395.9
72.5°	481.6	479.7	460.2	434.9	409.5	388.1	362.7	333.5	308.1	302.2	288.6
75°	333.5	337.3	341.2	337.3	315.9	288.6	259.3	235.9	204.8	187.2	183.3
77.5°	218.4	224.3	230.1	222.3	208.7	183.3	163.8	134.5	111.2	97.5	95.5
80°	159.9	167.7	171.6	165.8	150.2	130.7	109.2	85.8	68.3	56.5	56.5
82.5°	122.9	130.7	134.5	124.8	109.2	93.6	78.0	60.4	46.8	37.0	35.1
85°	42.9	41.0	48.8	50.7	60.4	56.5	46.8	35.1	27.3	19.5	17.5
87.5°	11.7	11.7	13.6	13.6	11.7	9.8	9.8	9.8	7.8	5.9	5.9
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)