

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: P648365

Luminaire Tested: **GALN-SA4B-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 17797.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

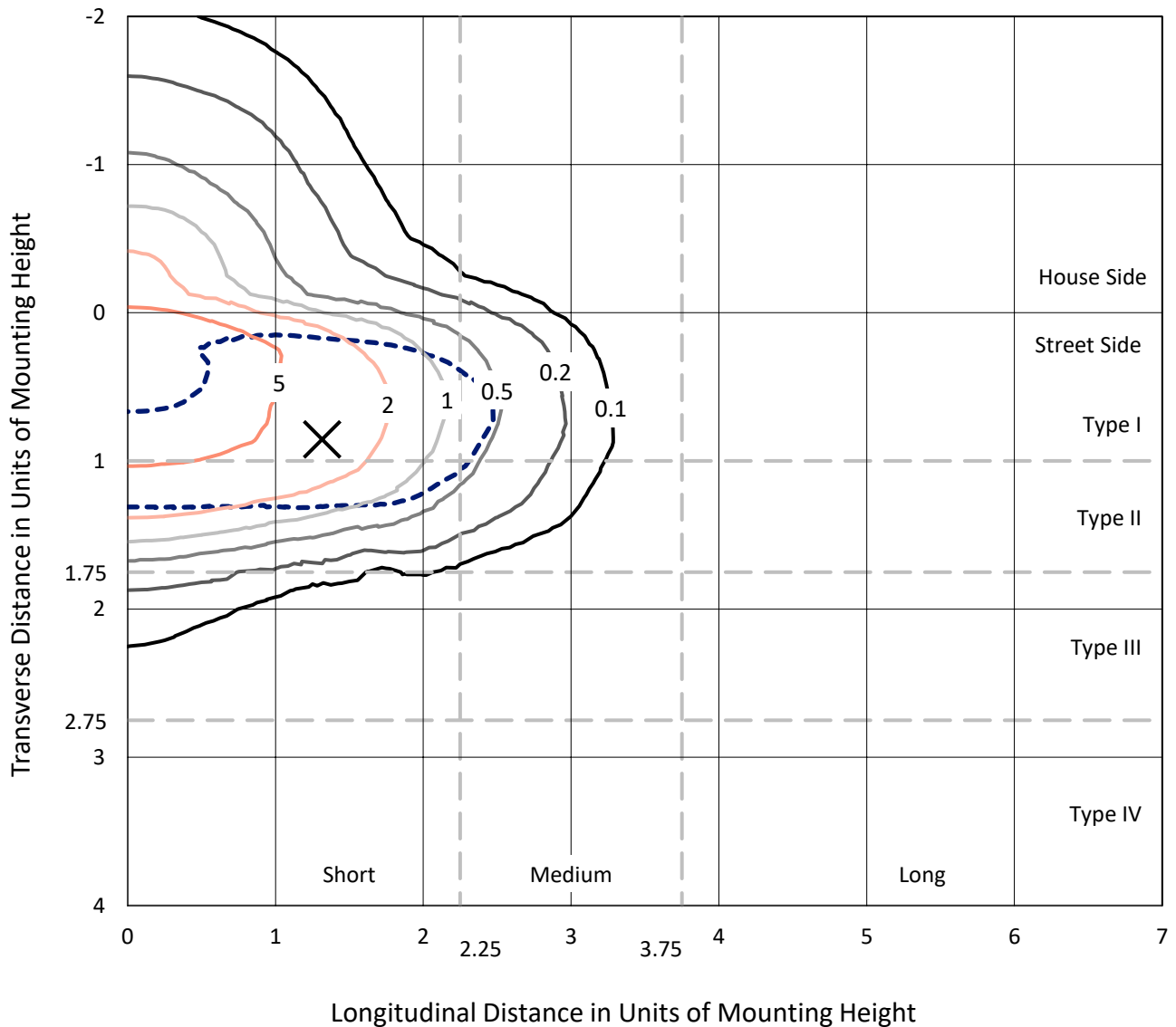
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

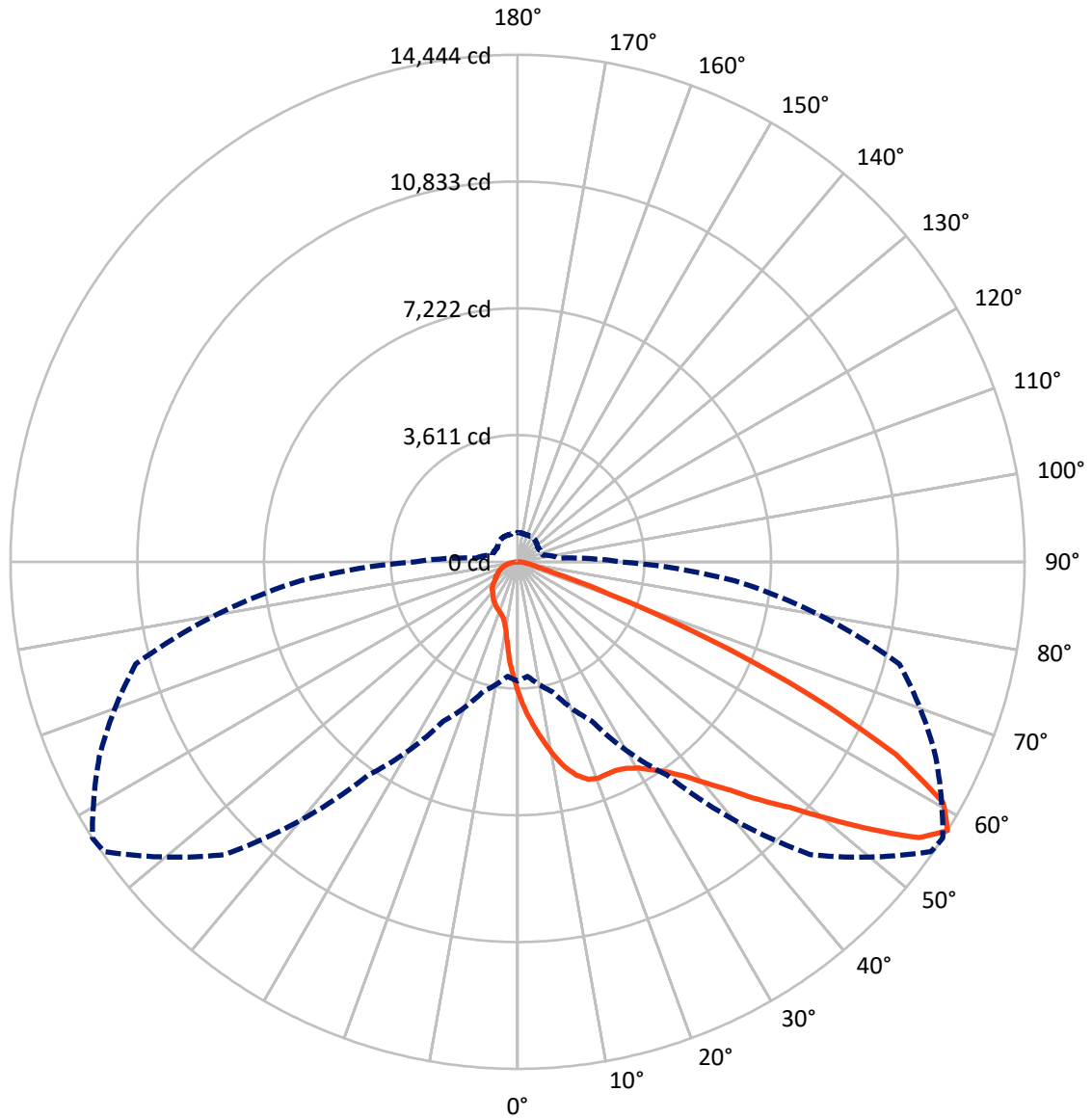
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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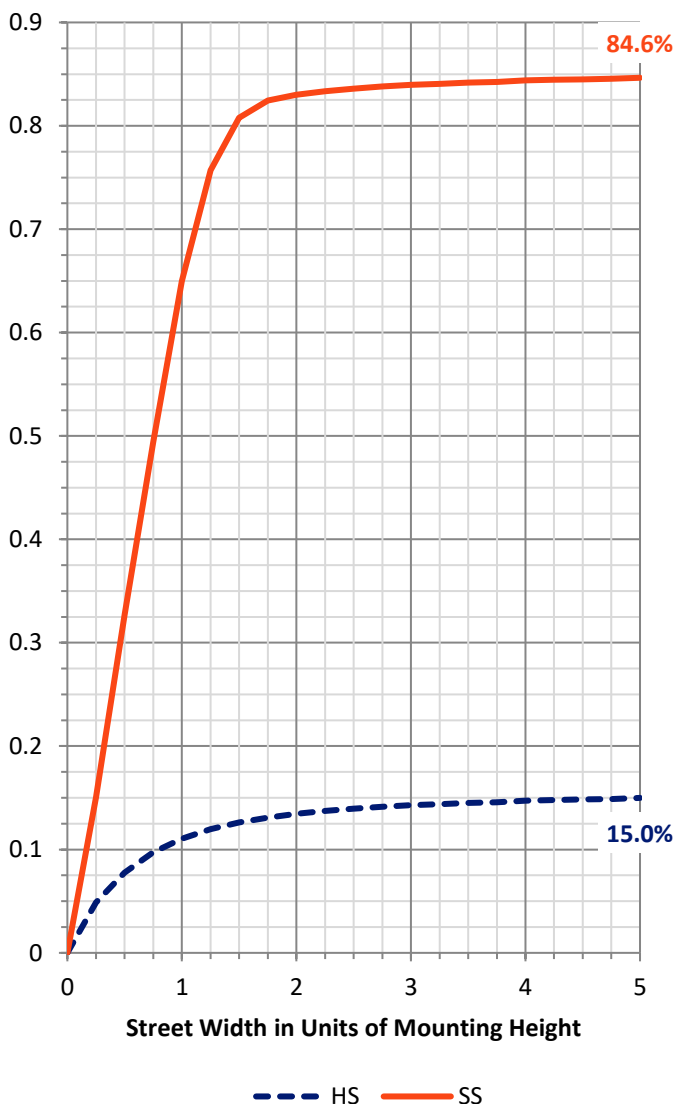
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2706.5	0.0	2706.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	15091.1	0.0	15091.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	17797.6	0.0	17797.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	2.0
10°-20°	1059.1	6.0
20°-30°	1758.6	9.9
30°-40°	2648.9	14.9
40°-50°	3977.1	22.3
50°-60°	4457.9	25.0
60°-70°	2609.0	14.7
70°-80°	771.7	4.3
80°-90°	156.0	0.9
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°	17797.6	100.0
0°-180°	17797.6	100.0

Coefficient of Utilization



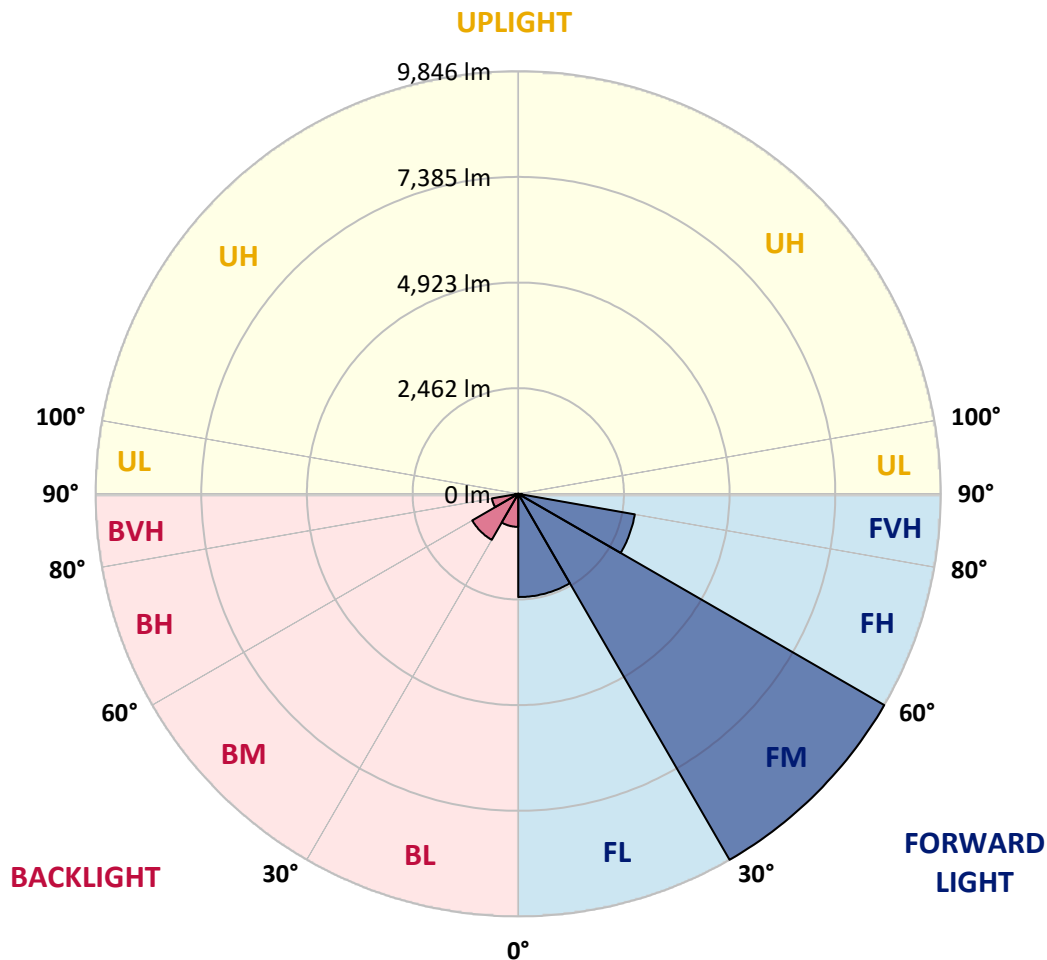
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.8	13.5			
FM (30°-60°)	9846.4	55.3			
FH (60°-80°)	2757.9	15.5			G2/5000
FVH (80°-90°)	80.9	0.5			G1/100
BL (0°-30°)	771.2	4.3	B2/1000		
BM (30°-60°)	1237.5	7.0	B2/2500		
BH (60°-80°)	622.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	75.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1
2.5°	4646.1	4595.4	4555.5	4520.4	4474.6	4350.9	4227.2	4225.2	4126.8	3974.8	3818.9
5°	5403.0	5334.8	5343.6	5234.5	5125.4	4946.1	4684.1	4670.4	4461.0	4176.5	3887.1
7.5°	5896.0	5897.0	5869.7	5807.4	5689.4	5485.9	5188.7	5121.5	4830.2	4398.6	3965.1
10°	5870.7	5897.0	5942.7	5996.4	6032.4	5932.1	5661.2	5579.3	5200.4	4667.5	4051.8
12.5°	5533.6	5574.5	5639.8	5774.2	5991.4	6157.1	6064.6	5998.3	5629.1	4935.4	4147.2
15°	5323.1	5347.5	5383.6	5474.2	5708.0	6104.5	6344.2	6309.1	6033.3	5238.4	4254.4
17.5°	5258.9	5283.2	5294.9	5350.5	5517.0	5923.3	6454.3	6516.6	6391.9	5517.0	4362.6
20°	5323.1	5334.8	5334.8	5367.9	5498.5	5817.1	6449.3	6575.0	6686.1	5851.2	4463.9
22.5°	5491.7	5496.6	5489.8	5501.4	5598.8	5846.3	6403.6	6559.4	6923.8	6134.6	4542.8
25°	5765.5	5773.2	5728.4	5701.2	5772.3	5974.9	6428.9	6572.1	7109.9	6405.5	4595.4
27.5°	6076.2	6085.9	6031.4	5968.1	6001.2	6133.7	6528.3	6656.8	7249.2	6672.5	4628.5
30°	6457.2	6461.1	6369.5	6293.5	6272.1	6370.4	6697.8	6817.6	7422.6	6987.1	4678.2
32.5°	6846.9	6876.1	6758.2	6651.0	6614.9	6645.2	6948.2	7064.1	7629.2	7325.2	4758.1
35°	7376.8	7381.7	7240.4	7109.9	6991.0	7030.0	7268.7	7352.4	7914.6	7715.8	4871.1
37.5°	8038.4	8083.1	7888.3	7644.7	7498.6	7442.1	7656.4	7748.0	8315.0	8195.2	5041.6
40°	8772.9	8789.4	8622.9	8470.9	8204.0	8040.2	8188.4	8287.7	8808.9	8767.0	5239.4
42.5°	9234.7	9270.7	9283.4	9267.8	9067.1	8792.4	8848.8	8895.7	9393.5	9303.8	5442.0
45°	9390.5	9444.2	9625.3	10009.2	10030.6	9759.8	9628.2	9673.1	10030.6	9845.5	5635.9
47.5°	9132.4	9224.0	9558.1	10345.3	10934.7	10955.1	10558.6	10460.3	10611.2	10294.6	5776.2
50°	8465.0	8484.5	8996.0	10135.9	11358.5	12097.9	11687.8	11504.6	11162.7	10626.8	5872.7
52.5°	7432.3	7454.8	7883.4	9162.6	11097.4	12896.8	13008.8	12681.5	11722.8	10885.0	5935.9
55°	5517.0	5646.6	6118.1	7354.4	9860.1	12821.8	14059.0	13873.0	12399.9	11089.6	6035.3
57.5°	3392.3	3273.4	3832.6	5003.6	7415.8	11791.0	14383.5	14443.8	13145.2	11261.0	6201.9
60°	1560.7	1584.1	1815.0	2580.7	4520.4	9224.0	13547.5	13929.4	13557.3	11255.2	6243.8
62.5°	1075.5	1054.1	995.7	1133.0	2061.5	5833.7	11443.2	12090.1	12731.2	10905.5	6077.2
65°	961.5	940.1	827.1	789.1	947.0	2542.7	8318.9	9135.3	10719.3	10022.8	5662.2
67.5°	898.3	869.0	752.1	678.1	676.1	1012.2	4905.2	5888.2	7950.7	8473.8	4906.2
70°	832.0	808.6	692.6	610.8	575.7	636.2	2156.0	2822.3	5162.4	6106.5	3821.9
72.5°	765.8	738.4	634.2	546.5	500.7	476.4	826.1	1074.6	2916.8	3661.2	2343.0
75°	669.3	655.7	567.0	494.9	445.2	384.8	524.1	598.2	1395.1	1681.5	1175.9
77.5°	585.5	570.9	503.7	432.5	396.5	312.7	372.2	406.2	588.4	682.0	531.0
80°	428.7	443.3	424.8	381.9	353.7	245.5	250.4	278.6	349.8	386.8	324.4
82.5°	271.8	299.1	327.4	294.3	267.9	193.9	173.4	184.2	238.7	253.3	144.2
85°	114.0	116.0	190.0	179.2	152.9	114.9	104.2	110.1	127.6	133.5	67.3
87.5°	43.8	42.8	67.3	62.3	47.8	33.1	33.1	37.0	50.7	46.7	21.5
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°	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1	3739.1
2.5°	3751.7	3682.5	3545.2	3374.7	3250.0	3109.7	2986.0	2897.3	2864.2	2848.6	2819.4
5°	3748.8	3612.4	3328.0	3029.8	2790.1	2544.7	2337.2	2202.7	2191.0	2101.4	2092.6
7.5°	3749.8	3541.3	3088.3	2649.9	2284.6	2033.2	1861.7	1817.0	1763.3	1749.7	1756.5
10°	3752.7	3450.7	2831.1	2273.8	1920.2	1755.6	1691.3	1673.7	1675.7	1681.5	1682.5
12.5°	3756.6	3363.0	2564.2	1988.4	1715.6	1647.4	1640.6	1656.2	1672.7	1685.4	1688.3
15°	3761.5	3262.7	2304.1	1758.5	1613.3	1607.5	1629.9	1656.2	1679.5	1698.1	1701.0
17.5°	3755.7	3145.8	2085.8	1617.2	1556.8	1585.0	1622.1	1655.2	1676.6	1694.2	1696.1
20°	3742.0	3015.3	1875.4	1517.8	1521.8	1567.5	1607.5	1638.7	1662.0	1670.8	1677.6
22.5°	3689.4	2859.4	1692.2	1440.9	1479.9	1543.1	1590.9	1609.4	1583.1	1564.6	1569.4
25°	3599.8	2656.7	1521.8	1378.5	1441.8	1509.1	1557.8	1513.0	1491.5	1483.7	1487.6
27.5°	3487.7	2434.6	1393.1	1313.2	1393.1	1471.1	1457.5	1449.6	1439.9	1427.3	1430.1
30°	3366.9	2217.3	1284.0	1262.6	1340.5	1385.4	1391.2	1403.8	1393.1	1373.6	1381.4
32.5°	3254.9	2012.8	1201.2	1219.8	1303.5	1296.7	1340.5	1355.1	1305.5	1240.2	1243.1
35°	3159.4	1822.7	1138.9	1177.9	1240.2	1243.1	1286.9	1236.3	1182.7	1151.6	1153.5
37.5°	3087.3	1674.7	1097.9	1141.8	1159.3	1196.3	1172.9	1146.6	1139.8	1118.4	1119.4
40°	3044.5	1545.1	1071.6	1113.5	1110.6	1136.0	1061.0	1087.2	1097.0	1090.2	1091.1
42.5°	3001.6	1453.6	1044.4	1074.6	1073.6	1023.9	1007.3	1029.7	1055.1	1058.0	1056.0
45°	2967.5	1382.4	1016.1	1015.2	1034.7	956.7	951.8	965.4	1001.5	1019.1	1018.1
47.5°	2929.5	1323.0	973.3	945.9	951.8	914.8	907.0	912.8	956.7	984.9	992.8
50°	2881.8	1263.6	919.6	882.7	858.3	875.9	877.7	878.8	922.6	954.7	961.5
52.5°	2843.8	1218.7	858.3	831.0	801.8	840.8	855.3	857.3	883.6	909.9	914.8
55°	2866.2	1193.4	797.9	778.4	752.1	804.7	833.0	836.9	842.7	862.2	865.1
57.5°	2933.4	1199.2	749.2	723.9	704.4	761.9	809.5	812.5	808.6	832.0	835.9
60°	2953.9	1196.3	713.2	663.4	651.8	716.1	775.5	781.4	780.3	814.5	821.3
62.5°	2868.1	1159.3	677.1	612.8	605.0	669.3	727.7	751.1	756.0	804.7	813.5
65°	2666.4	1083.4	629.4	559.2	559.2	619.6	682.0	714.1	727.7	793.0	802.7
67.5°	2400.5	993.7	580.7	513.4	511.5	571.9	633.2	666.3	687.8	776.4	782.3
70°	1992.3	872.9	520.2	463.7	463.7	518.3	573.8	613.8	645.0	745.3	745.3
72.5°	1364.9	725.8	447.2	407.2	408.2	458.8	515.4	560.2	597.2	682.9	684.9
75°	863.2	567.0	367.3	346.8	350.7	398.5	456.9	503.7	577.7	675.1	678.1
77.5°	458.8	398.5	292.3	287.4	292.3	336.1	401.4	465.7	579.7	585.5	575.7
80°	297.1	282.5	230.9	221.1	223.1	270.8	357.5	442.3	465.7	471.5	450.1
82.5°	161.7	179.2	163.6	153.9	153.9	211.4	304.9	351.7	334.2	277.7	265.0
85°	69.1	83.8	84.7	74.1	71.1	130.5	204.6	191.9	178.3	170.5	168.5
87.5°	19.5	27.2	27.2	20.4	15.6	36.0	41.0	11.7	0.0	0.9	2.0
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)