

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: P651060

Luminaire Tested: **GALN-SA8C-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651060
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-SA8C-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48212 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

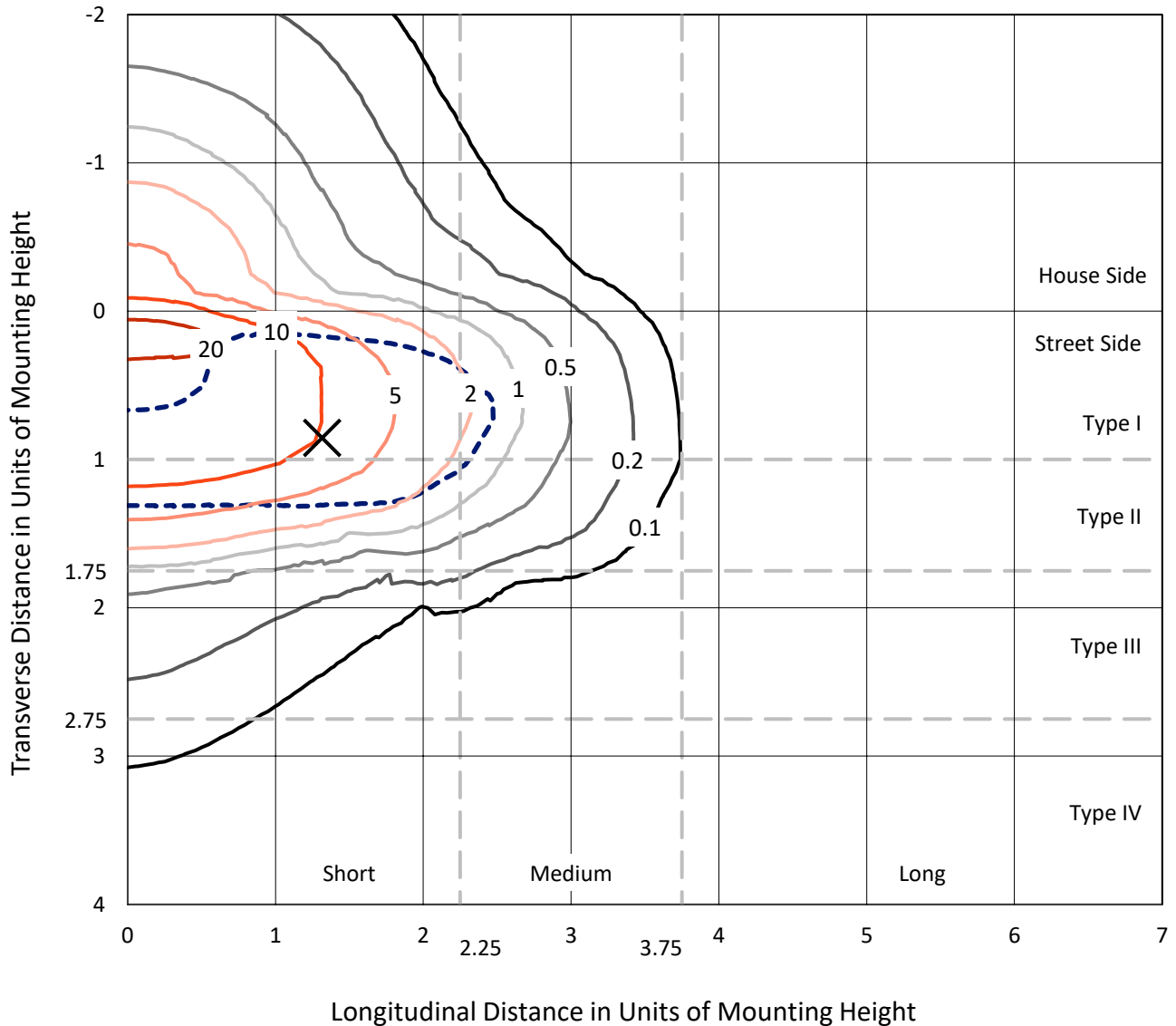
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

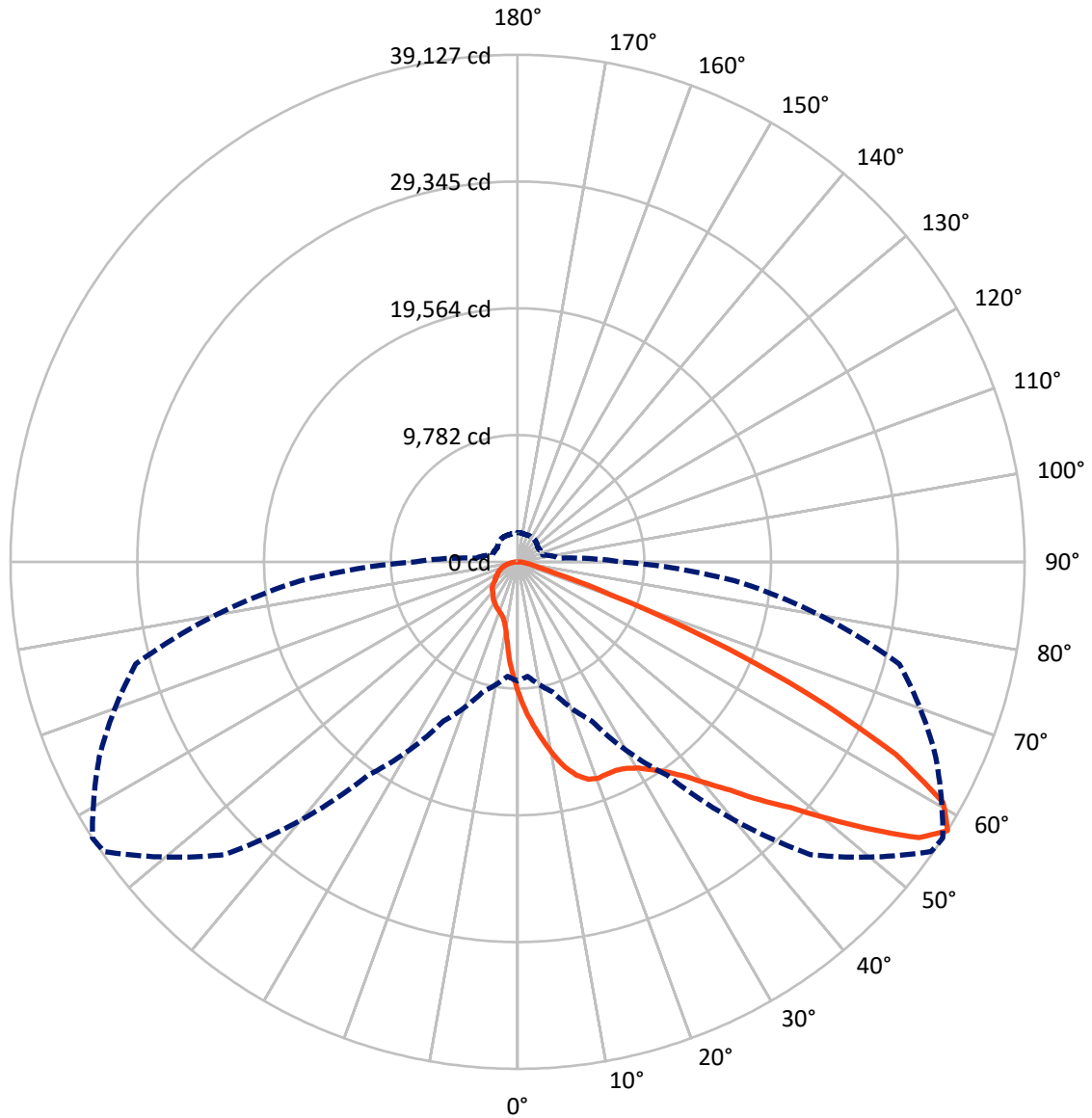
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 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	7331.7	0.0	7331.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	40880.3	0.0	40880.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	48212.0	0.0	48212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	973.5	2.0
10°-20°	2868.9	6.0
20°-30°	4763.8	9.9
30°-40°	7175.7	14.9
40°-50°	10773.7	22.3
50°-60°	12075.9	25.0
60°-70°	7067.4	14.7
70°-80°	2090.5	4.3
80°-90°	422.5	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°	48212.0	100.0
0°-180°	48212.0	100.0

Coefficient of Utilization

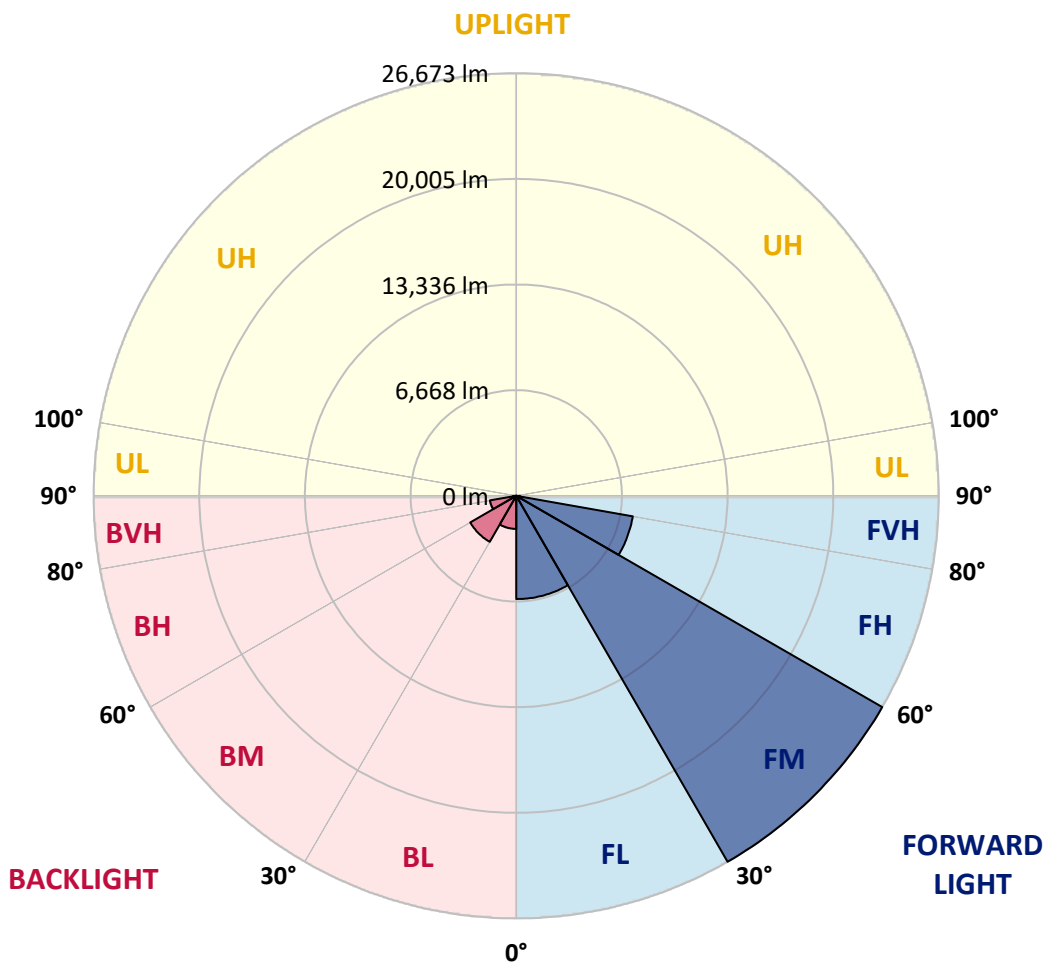


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6517.2	13.5			
FM (30°-60°)	26673.0	55.3			
FH (60°-80°)	7470.9	15.5			G3/7500
FVH (80°-90°)	219.2	0.5			G2/225
BL (0°-30°)	2089.1	4.3	B3/2500		
BM (30°-60°)	3352.3	7.0	B3/5000		
BH (60°-80°)	1687.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	203.3	0.4			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°	57°	65°	75°	85°
0°	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8
2.5°	12585.7	12448.6	12340.3	12245.3	12121.3	11786.1	11451.0	11445.7	11179.2	10767.4	10345.2
5°	14636.3	14451.6	14475.4	14179.8	13884.2	13398.6	12688.7	12651.8	12084.3	11313.7	10529.9
7.5°	15971.7	15974.4	15900.5	15731.6	15412.3	14860.6	14055.7	13873.6	13084.5	11915.5	10741.1
10°	15903.1	15974.4	16098.4	16243.6	16341.2	16069.3	15335.7	15114.0	14087.4	12643.8	10976.0
12.5°	14990.0	15100.8	15277.6	15641.8	16230.4	16679.0	16428.3	16248.8	15248.6	13369.5	11234.6
15°	14420.0	14485.9	14583.5	14829.0	15462.4	16536.5	17185.7	17090.7	16343.8	14190.4	11524.9
17.5°	14245.8	14311.7	14343.4	14493.8	14945.1	16045.6	17483.9	17652.8	17315.0	14945.1	11817.8
20°	14420.0	14451.6	14451.6	14541.3	14895.0	15758.0	17470.7	17811.1	18112.0	15850.3	12092.2
22.5°	14876.5	14889.7	14871.2	14902.9	15166.8	15837.1	17346.6	17768.9	18756.0	16618.3	12306.0
25°	15618.0	15639.2	15517.8	15443.9	15636.5	16185.5	17415.3	17803.2	19260.0	17351.9	12448.6
27.5°	16460.0	16486.4	16338.5	16167.0	16256.7	16615.6	17684.5	18032.8	19637.4	18075.0	12538.3
30°	17491.8	17502.4	17254.3	17048.5	16990.4	17257.0	18143.6	18468.3	20107.1	18927.5	12672.9
32.5°	18547.5	18626.6	18307.3	18017.0	17919.4	18001.2	18821.9	19135.9	20666.6	19843.2	12889.3
35°	19983.1	19996.3	19613.6	19260.0	18938.1	19043.6	19690.2	19917.2	21439.9	20901.5	13195.4
37.5°	21775.1	21896.4	21368.6	20708.9	20313.0	20159.9	20740.6	20988.6	22524.6	22200.0	13657.3
40°	23764.9	23809.8	23358.5	22946.8	22223.7	21780.3	22181.5	22450.7	23862.5	23749.1	14193.0
42.5°	25015.9	25113.5	25147.8	25105.5	24561.9	23817.7	23970.8	24097.4	25446.1	25203.3	14741.9
45°	25438.1	25583.2	26074.1	27113.9	27172.0	26438.3	26082.0	26203.5	27172.0	26670.5	15267.1
47.5°	24738.8	24986.8	25892.0	28024.4	29621.0	29676.5	28602.3	28335.8	28744.9	27887.1	15647.1
50°	22931.0	22983.8	24369.2	27457.0	30769.1	32772.1	31661.0	31164.9	30238.6	28787.1	15908.4
52.5°	20133.5	20194.3	21355.4	24820.5	30061.8	34936.1	35239.7	34352.9	31756.1	29486.5	16079.9
55°	14945.1	15296.1	16573.4	19922.4	26710.2	34733.0	38084.6	37580.5	33590.2	30040.7	16349.1
57.5°	9189.3	8867.3	10382.1	13554.3	20088.7	31940.8	38963.4	39127.0	35609.1	30505.2	16800.4
60°	4227.8	4291.1	4916.6	6990.9	12245.3	24986.8	36699.1	37733.6	36725.5	30489.3	16913.9
62.5°	2913.6	2855.4	2697.2	3069.2	5584.3	15802.8	30998.7	32751.0	34487.5	29541.9	16462.6
65°	2604.7	2546.7	2240.6	2137.7	2565.2	6888.0	22535.1	24746.7	29037.8	27150.8	15338.3
67.5°	2433.3	2354.0	2037.4	1836.8	1831.5	2742.0	13287.8	15950.6	21537.5	22954.8	13290.4
70°	2253.8	2190.5	1876.4	1654.7	1559.7	1723.3	5840.3	7645.4	13984.5	16541.8	10353.1
72.5°	2074.3	2000.4	1718.1	1480.5	1356.4	1290.5	2237.9	2910.9	7901.4	9917.7	6347.0
75°	1813.0	1776.1	1535.9	1340.6	1206.1	1042.4	1419.9	1620.4	3779.2	4555.0	3185.4
77.5°	1586.1	1546.5	1364.4	1171.8	1074.1	847.1	1008.1	1100.5	1594.0	1847.3	1438.3
80°	1161.2	1200.8	1150.7	1034.5	958.0	665.1	678.3	754.8	947.5	1047.7	878.8
82.5°	736.3	810.2	886.8	797.0	725.8	525.2	469.8	498.8	646.6	686.2	390.6
85°	308.7	314.0	514.6	485.6	414.4	311.4	282.4	298.2	345.7	361.5	182.1
87.5°	118.7	116.1	182.1	168.9	129.3	89.7	89.7	100.2	137.3	126.7	58.0
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°	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8	10128.8
2.5°	10163.1	9975.7	9603.6	9141.8	8804.0	8424.0	8088.8	7848.6	7758.9	7716.7	7637.5
5°	10155.2	9785.7	9015.1	8207.6	7558.3	6893.3	6331.1	5967.0	5935.3	5692.5	5668.8
7.5°	10157.9	9593.0	8365.8	7178.3	6188.7	5507.8	5043.3	4921.9	4776.7	4739.8	4758.3
10°	10165.8	9347.6	7669.2	6159.7	5201.7	4755.6	4581.4	4533.9	4539.2	4555.0	4557.7
12.5°	10176.3	9110.1	6946.1	5386.4	4647.5	4462.7	4444.2	4486.4	4531.3	4565.6	4573.5
15°	10189.5	8838.3	6241.4	4763.5	4370.3	4354.4	4415.2	4486.4	4549.8	4599.9	4607.8
17.5°	10173.7	8521.6	5650.3	4380.9	4217.3	4293.8	4394.1	4483.8	4541.8	4589.3	4594.6
20°	10136.7	8168.0	5080.2	4111.6	4122.2	4246.3	4354.4	4439.0	4502.3	4526.0	4544.5
22.5°	9994.2	7745.7	4584.1	3903.2	4008.8	4180.3	4309.6	4359.7	4288.5	4238.4	4251.6
25°	9751.4	7196.8	4122.2	3734.3	3905.9	4087.9	4219.9	4098.5	4040.4	4019.3	4029.9
27.5°	9447.9	6595.0	3773.9	3557.5	3773.9	3985.0	3948.1	3927.0	3900.6	3866.2	3874.2
30°	9120.6	6006.5	3478.3	3420.3	3631.4	3752.8	3768.6	3802.9	3773.9	3721.1	3742.2
32.5°	8817.1	5452.4	3254.0	3304.1	3531.1	3512.6	3631.4	3671.0	3536.4	3359.5	3367.4
35°	8558.5	4937.7	3085.1	3190.7	3359.5	3367.4	3486.2	3349.0	3203.9	3119.4	3124.7
37.5°	8363.2	4536.6	2974.3	3093.0	3140.5	3240.8	3177.5	3106.2	3087.7	3029.7	3032.3
40°	8247.1	4185.6	2903.0	3016.5	3008.6	3077.1	2873.9	2945.2	2971.6	2953.2	2955.8
42.5°	8131.0	3937.5	2829.1	2910.9	2908.3	2773.7	2728.8	2789.5	2858.1	2866.0	2860.7
45°	8038.6	3744.9	2752.6	2749.9	2802.7	2591.5	2578.4	2615.3	2713.0	2760.5	2757.8
47.5°	7935.7	3583.8	2636.5	2562.5	2578.4	2478.1	2457.0	2472.8	2591.5	2668.1	2689.2
50°	7806.4	3422.9	2491.3	2391.0	2325.0	2372.5	2377.8	2380.5	2499.2	2586.3	2604.7
52.5°	7703.5	3301.5	2325.0	2251.1	2172.0	2277.5	2317.1	2322.4	2393.7	2464.9	2478.1
55°	7764.2	3232.9	2161.4	2108.6	2037.4	2179.9	2256.4	2267.0	2282.8	2335.6	2343.5
57.5°	7946.3	3248.7	2029.4	1960.9	1908.1	2063.7	2193.1	2201.0	2190.5	2253.8	2264.3
60°	8001.7	3240.8	1931.8	1797.2	1765.5	1939.7	2100.7	2116.5	2113.9	2206.3	2224.8
62.5°	7769.5	3140.5	1834.1	1660.0	1638.9	1813.0	1971.4	2034.7	2047.9	2179.9	2203.7
65°	7223.2	2934.7	1704.9	1514.8	1514.8	1678.5	1847.3	1934.5	1971.4	2148.3	2174.6
67.5°	6502.7	2691.9	1572.9	1390.8	1385.5	1549.1	1715.4	1805.1	1863.2	2103.3	2119.2
70°	5396.9	2364.6	1409.3	1256.2	1256.2	1404.0	1554.4	1662.7	1747.1	2018.9	2018.9
72.5°	3697.4	1966.1	1211.4	1103.1	1105.7	1243.0	1396.1	1517.5	1617.7	1850.0	1855.2
75°	2338.2	1535.9	994.9	939.5	950.1	1079.4	1237.7	1364.4	1564.9	1828.9	1836.8
77.5°	1243.0	1079.4	791.7	778.5	791.7	910.5	1087.3	1261.5	1570.2	1586.1	1559.7
80°	804.9	765.3	625.5	599.0	604.3	733.7	968.6	1198.2	1261.5	1277.3	1219.3
82.5°	438.1	485.6	443.4	417.0	417.0	572.7	826.0	952.7	905.2	752.1	717.8
85°	187.4	227.0	229.6	200.6	192.7	353.6	554.2	519.9	483.0	461.9	456.6
87.5°	52.8	73.9	73.9	55.4	42.2	97.6	110.8	31.7	0.0	2.6	5.3
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)