

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: P530118

Luminaire Tested: **GALN-SA5B-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24876 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

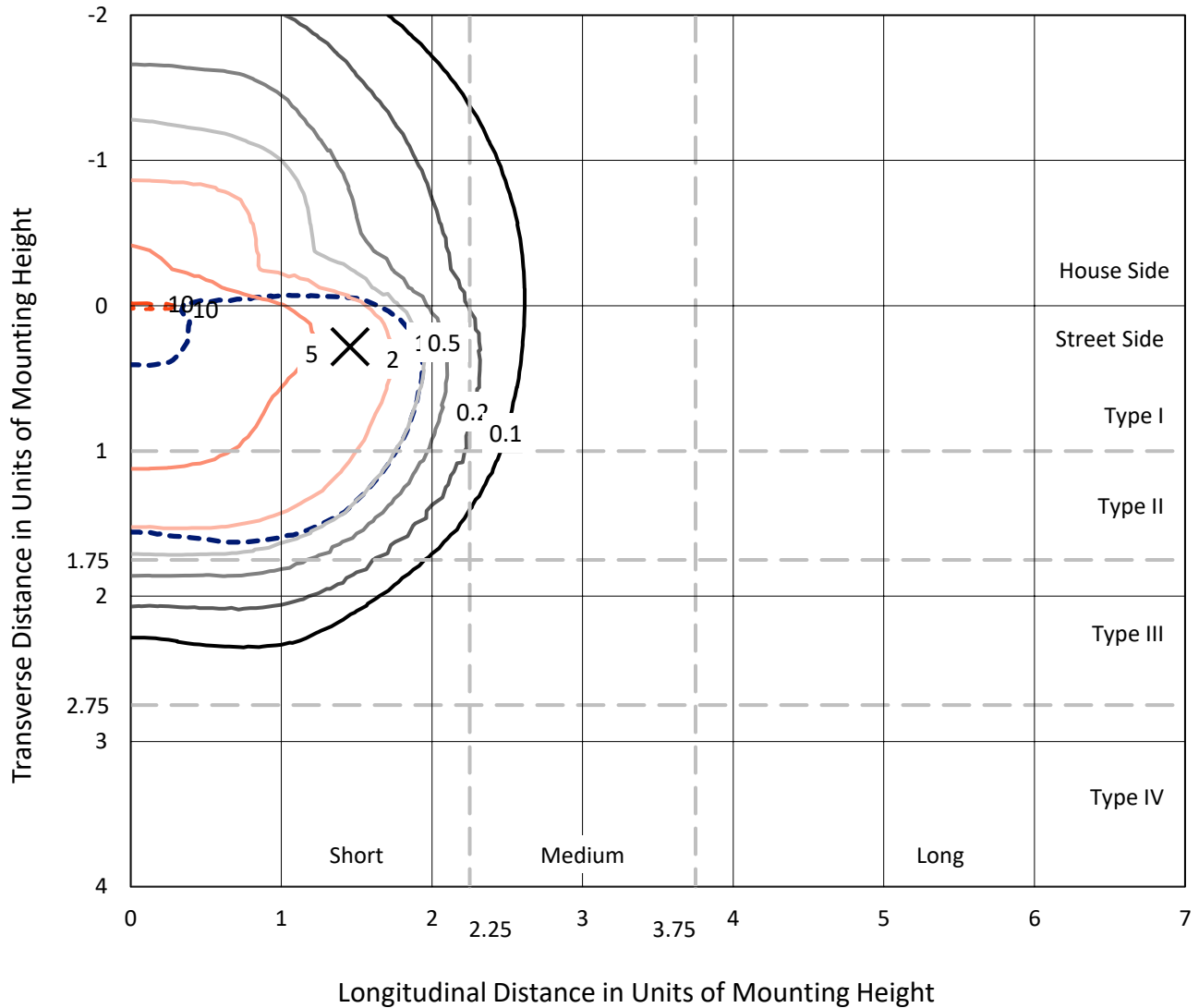
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

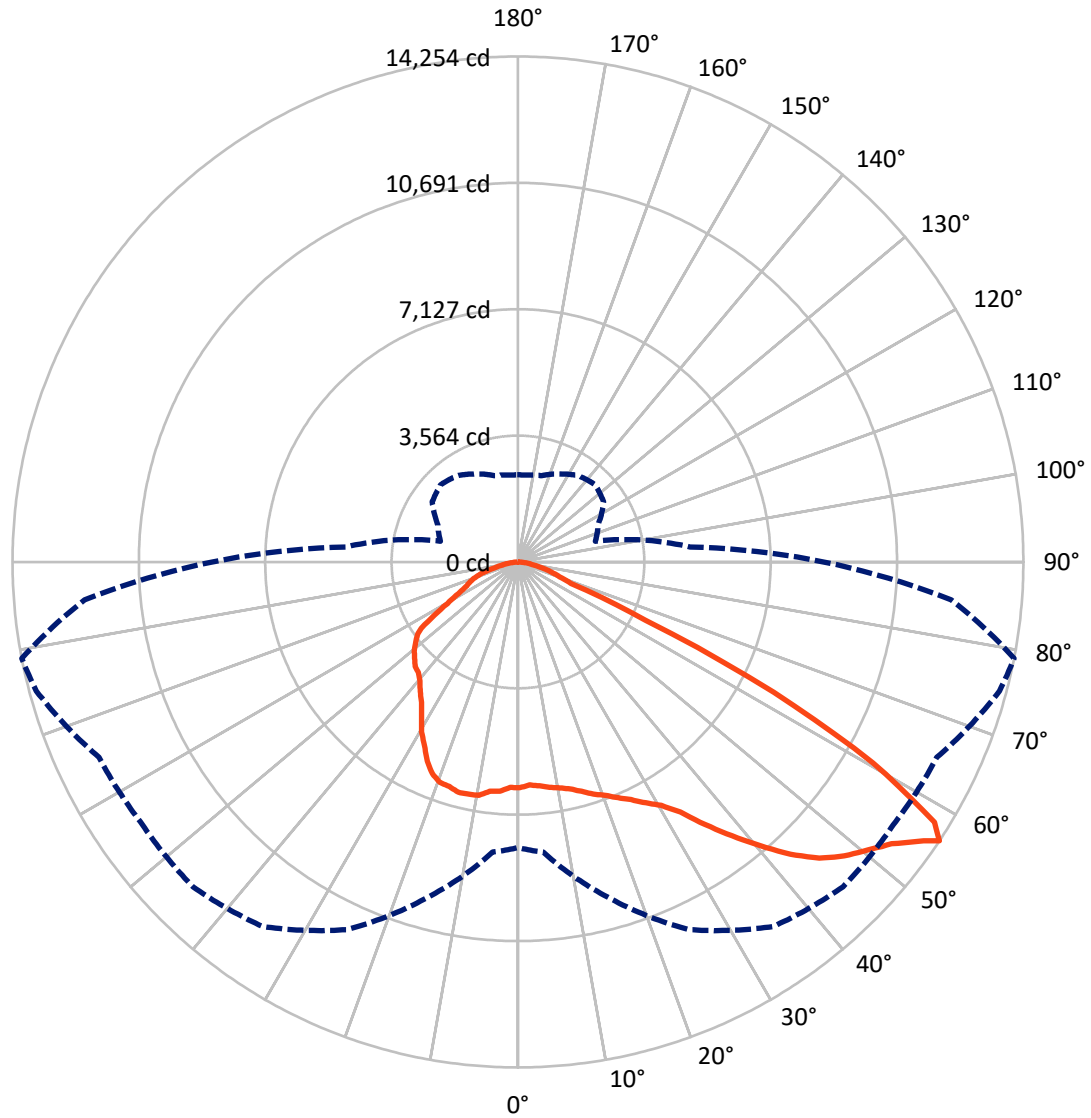
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7346.4	0.0	7346.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17529.6	0.0	17529.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	24876.0	0.0	24876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.7	2.3
10°-20°	1583.7	6.4
20°-30°	2709.4	10.9
30°-40°	4152.5	16.7
40°-50°	5612.0	22.6
50°-60°	6445.6	25.9
60°-70°	2938.1	11.8
70°-80°	724.4	2.9
80°-90°	131.7	0.5
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°	24876.0	100.0
0°-180°	24876.0	100.0

Coefficient of Utilization



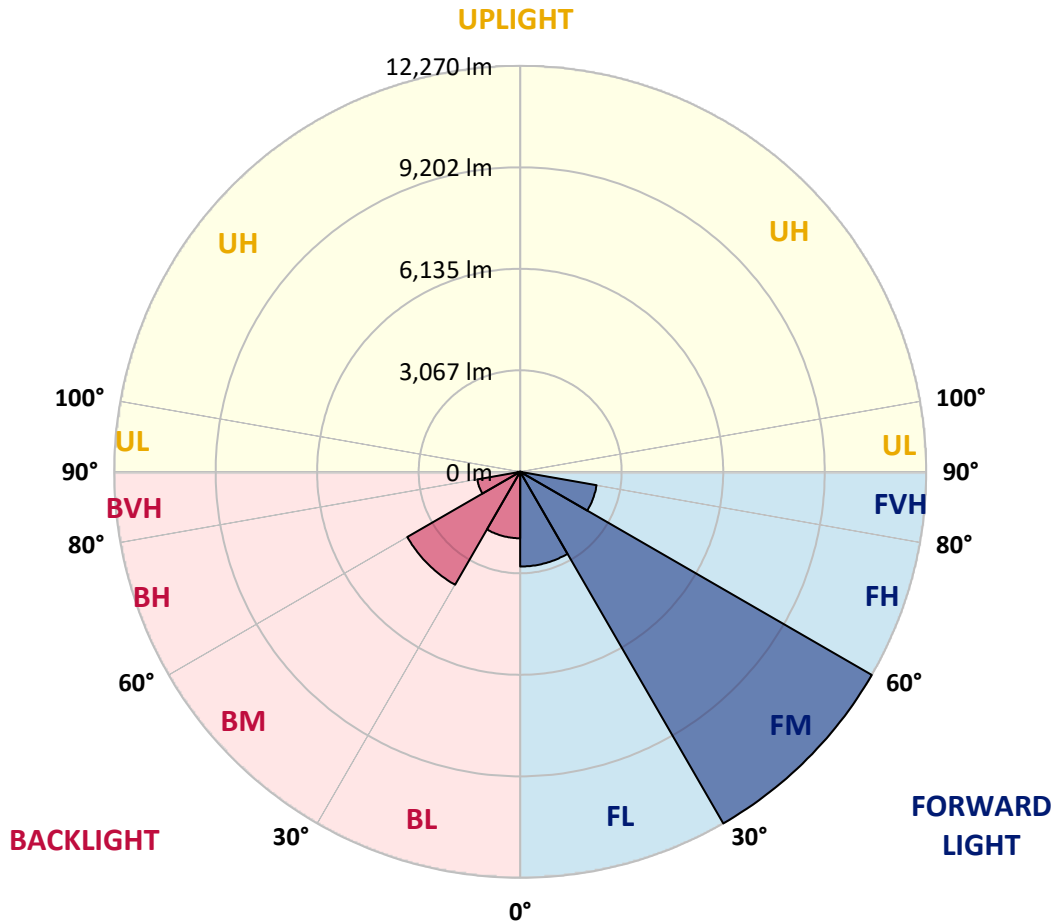
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2862.2	11.5			
FM (30°-60°)	12269.6	49.3			
FH (60°-80°)	2345.2	9.4			G2/5000
FVH (80°-90°)	52.6	0.2			G1/100
BL (0°-30°)	2009.6	8.1	B3/2500		
BM (30°-60°)	3940.5	15.8	B3/5000		
BH (60°-80°)	1317.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	79.1	0.3			G1/100
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°	79°	85°
0°	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8
2.5°	6054.9	6039.4	6076.6	6104.5	6138.6	6182.0	6203.6	6216.0	6324.5	6296.6	6380.3
5°	5924.8	5884.5	5912.4	5934.1	5992.9	6045.6	6104.5	6197.5	6296.6	6340.0	6442.3
7.5°	5810.1	5788.4	5782.2	5797.7	5878.3	5946.5	6048.7	6185.1	6346.2	6417.5	6476.3
10°	5621.1	5590.1	5636.6	5738.8	5760.5	5903.1	6020.8	6216.0	6355.5	6479.4	6653.0
12.5°	5537.4	5506.4	5515.7	5574.6	5726.4	5862.8	6002.2	6222.2	6516.6	6566.2	6798.6
15°	5670.7	5639.7	5649.0	5633.5	5779.1	5850.4	6070.4	6346.2	6628.2	6711.8	6959.7
17.5°	5974.3	5977.4	5937.2	5903.1	5869.0	6020.8	6172.7	6420.6	6671.6	6882.3	7068.2
20°	6553.8	6451.5	6371.0	6178.9	6126.2	6191.3	6383.4	6622.0	6848.2	7021.7	7232.4
22.5°	7000.0	7009.3	6894.7	6578.6	6463.9	6491.8	6656.1	6851.3	7099.2	7223.1	7464.8
25°	7647.7	7582.6	7458.6	7207.6	6950.4	6972.1	7093.0	7269.6	7337.8	7424.5	7687.9
27.5°	8239.5	8258.1	8013.3	7777.8	7458.6	7396.7	7613.6	7644.6	7529.9	7694.1	7784.0
30°	8840.7	8825.2	8664.0	8388.3	8075.3	8087.7	8183.7	8031.9	7873.9	7963.7	8025.7
32.5°	9463.5	9286.9	9280.7	9032.8	8794.2	8679.5	8561.8	8636.1	8391.4	8409.9	8351.1
35°	9962.4	9987.2	9844.7	9668.0	9550.3	9348.9	9026.6	9159.8	9113.4	9091.7	8837.6
37.5°	10325.0	10228.9	10300.2	10241.3	10129.7	9878.7	9544.1	9671.1	9692.8	9798.2	9503.8
40°	10622.4	10582.1	10771.2	10802.2	10724.7	10182.4	9581.3	9959.3	10284.7	10514.0	10163.8
42.5°	10765.0	10851.7	11050.1	11288.7	11115.1	10535.7	9773.4	10179.3	10904.4	11267.0	10789.8
45°	10957.1	10845.5	11139.9	11576.8	11579.9	10833.1	9959.3	10476.8	11387.8	11914.6	11217.4
47.5°	10761.9	10817.7	11121.3	11676.0	11818.5	11146.1	10461.3	10898.2	11920.8	12388.7	11614.0
50°	10325.0	10436.5	10991.2	11567.5	11998.3	11477.7	11037.7	11353.7	12413.5	12769.9	11679.1
52.5°	9869.4	9931.4	10799.1	11651.2	12078.8	11905.3	11809.2	11982.8	13014.6	13200.6	11759.7
55°	8630.0	8924.3	10163.8	11614.0	12472.4	12676.9	12602.5	12856.6	13696.4	13882.3	12199.7
56°	8056.7	8211.6	9782.7	11440.5	12549.8	12958.9	12921.7	13036.3	14058.9	14254.1	12267.9
57.5°	6996.9	7009.3	8341.8	10672.0	12258.6	13042.5	13005.4	13095.2	13987.6	13854.4	11669.8
60°	4378.5	4570.6	5676.9	8208.5	10424.1	12100.5	12311.2	11589.2	11793.8	11511.8	9079.3
62.5°	2268.3	2240.4	2974.8	4799.9	6919.5	8664.0	8859.3	8825.2	8509.1	8097.0	5931.0
65°	1131.0	1137.2	1555.6	2376.7	3544.9	4536.5	5081.9	5140.8	4301.0	3957.1	2813.6
67.5°	821.2	852.1	1118.6	1453.3	1670.2	1868.5	2290.0	2246.6	1701.2	1617.5	1499.8
70°	638.3	666.2	907.9	1109.3	1007.1	1007.1	1096.9	1134.1	1211.6	1245.7	1286.0
72.5°	464.8	486.5	694.1	765.4	660.0	709.6	821.2	907.9	988.5	1000.9	1047.4
75°	319.2	337.8	455.5	421.4	396.6	489.6	601.2	681.7	740.6	771.6	799.5
77.5°	207.6	213.8	260.3	220.0	254.1	316.1	390.4	458.6	517.5	542.3	548.5
80°	93.0	102.3	111.6	139.4	176.6	226.2	278.9	334.7	371.8	381.1	399.7
82.5°	52.7	52.7	68.2	99.2	130.1	164.2	201.4	241.7	285.1	294.4	291.3
85°	27.9	27.9	40.3	58.9	80.6	96.1	93.0	96.1	102.3	117.8	114.7
87.5°	9.3	9.3	12.4	12.4	15.5	18.6	15.5	21.7	27.9	27.9	27.9
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°	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8	6364.8
2.5°	6355.5	6383.4	6346.2	6426.8	6426.8	6411.3	6333.8	6358.6	6377.2	6377.2	6392.7
5°	6476.3	6467.0	6491.8	6395.8	6336.9	6315.2	6188.2	6126.2	6073.5	6070.4	6023.9
7.5°	6544.5	6519.7	6510.4	6439.2	6178.9	6020.8	5748.1	5590.1	5556.0	5435.2	5481.6
10°	6653.0	6699.4	6653.0	6265.6	5903.1	5540.5	5274.0	5029.2	4933.2	4855.7	4809.2
12.5°	6876.1	6854.4	6584.8	6061.1	5552.9	5122.2	4725.6	4468.4	4372.3	4304.1	4297.9
15°	7065.1	6956.6	6544.5	5738.8	5007.5	4548.9	4223.6	4040.7	3997.4	4003.6	4031.4
17.5°	7130.2	7055.8	6333.8	5404.2	4601.6	4062.4	3910.6	3882.7	3923.0	3969.5	3981.9
20°	7232.4	7114.7	6247.0	4948.7	4099.6	3758.8	3749.5	3848.6	3923.0	3991.2	4000.5
22.5°	7446.2	7148.8	5965.0	4517.9	3755.7	3668.9	3758.8	3842.4	3957.1	4012.9	3963.3
25°	7508.2	7074.4	5568.4	4000.5	3538.7	3613.1	3709.2	3823.8	3904.4	3935.4	3957.1
27.5°	7560.9	6959.7	5032.3	3656.5	3470.6	3610.0	3709.2	3805.2	3848.6	3876.5	3901.3
30°	7709.6	6925.7	4567.5	3427.2	3427.2	3548.0	3675.1	3699.9	3758.8	3792.8	3836.2
32.5°	7784.0	6690.1	4090.3	3281.6	3383.8	3579.0	3588.3	3634.8	3637.9	3665.8	3619.3
35°	7979.2	6522.8	3647.2	3176.2	3402.4	3548.0	3594.5	3566.6	3414.8	3340.4	3355.9
37.5°	8121.8	6439.2	3328.0	3163.8	3405.5	3582.1	3606.9	3396.2	3238.2	3114.2	3145.2
40°	8506.0	6231.5	3086.3	3142.1	3433.4	3619.3	3551.1	3321.8	3036.8	2909.7	2888.0
42.5°	8800.4	6082.8	2934.5	3117.3	3455.1	3672.0	3523.3	3173.1	2881.8	2764.1	2795.1
45°	9141.2	6048.7	2853.9	3123.5	3492.3	3699.9	3489.2	3058.4	2748.6	2702.1	2692.8
47.5°	9262.1	5803.9	2767.2	3070.8	3483.0	3690.6	3374.5	2971.7	2699.0	2705.2	2730.0
50°	9060.7	5552.9	2702.1	2962.4	3421.0	3606.9	3194.8	2857.0	2671.1	2748.6	2792.0
52.5°	8803.5	5295.7	2568.8	2816.7	3293.9	3476.8	3111.1	2850.8	2643.2	2618.4	2627.7
55°	8880.9	5085.0	2382.9	2618.4	3089.4	3235.1	3018.2	2792.0	2575.0	2482.1	2513.1
56°	8630.0	4868.1	2262.1	2494.5	2950.0	3080.1	2971.7	2739.3	2519.3	2457.3	2457.3
57.5°	7920.3	4139.9	2104.0	2296.2	2655.6	2810.5	2881.8	2708.3	2457.3	2348.8	2351.9
60°	5841.1	2943.8	1887.1	2023.5	2200.1	2324.0	2655.6	2621.5	2302.4	2228.0	2200.1
62.5°	3600.7	2150.5	1732.2	1784.9	1874.7	1977.0	2317.8	2373.6	2138.1	2057.6	2039.0
65°	2017.3	1645.4	1614.4	1636.1	1679.5	1732.2	1924.3	2048.3	1887.1	1763.2	1757.0
67.5°	1475.0	1471.9	1496.7	1515.3	1533.9	1533.9	1580.4	1629.9	1608.2	1509.1	1499.8
70°	1310.8	1320.1	1338.6	1341.7	1347.9	1326.3	1289.1	1273.6	1298.4	1236.4	1224.0
72.5°	1081.5	1112.4	1134.1	1137.2	1103.1	1075.3	1025.7	973.0	954.4	942.0	938.9
75°	830.5	852.1	861.4	858.3	846.0	805.7	746.8	694.1	660.0	622.8	641.4
77.5°	560.9	591.9	607.4	607.4	588.8	526.8	498.9	458.6	424.5	384.2	390.4
80°	393.5	415.2	440.0	436.9	405.9	374.9	334.7	297.5	269.6	238.6	235.5
82.5°	294.4	306.8	319.2	313.0	291.3	260.3	232.4	198.3	167.3	145.6	145.6
85°	105.4	114.7	139.4	145.6	158.0	158.0	133.2	111.6	89.9	74.4	74.4
87.5°	31.0	31.0	34.1	34.1	31.0	34.1	27.9	31.0	34.1	21.7	21.7
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)