

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: P533030

Luminaire Tested: **GALN-SA8B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533030
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-SA8B-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 31873 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

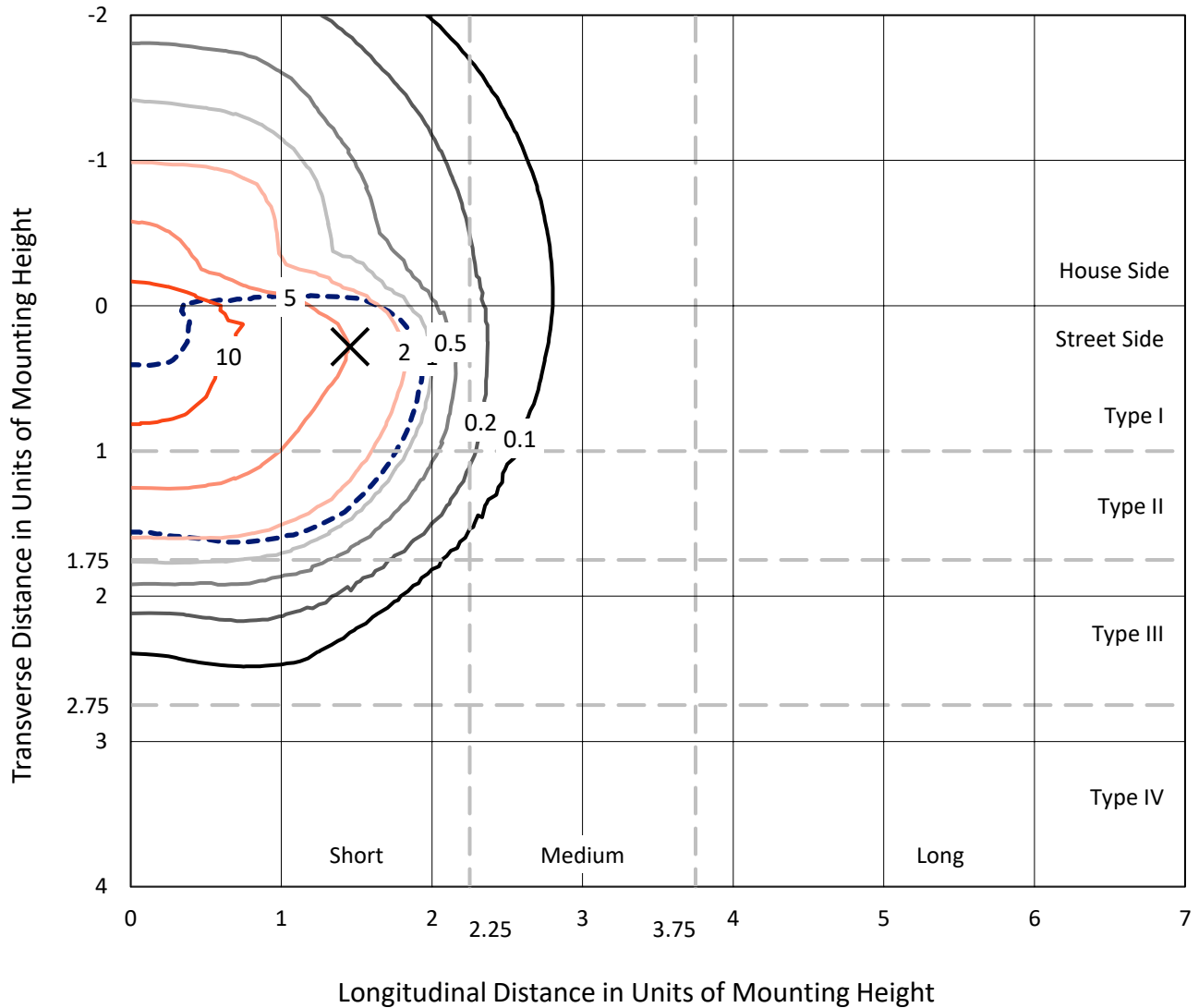
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

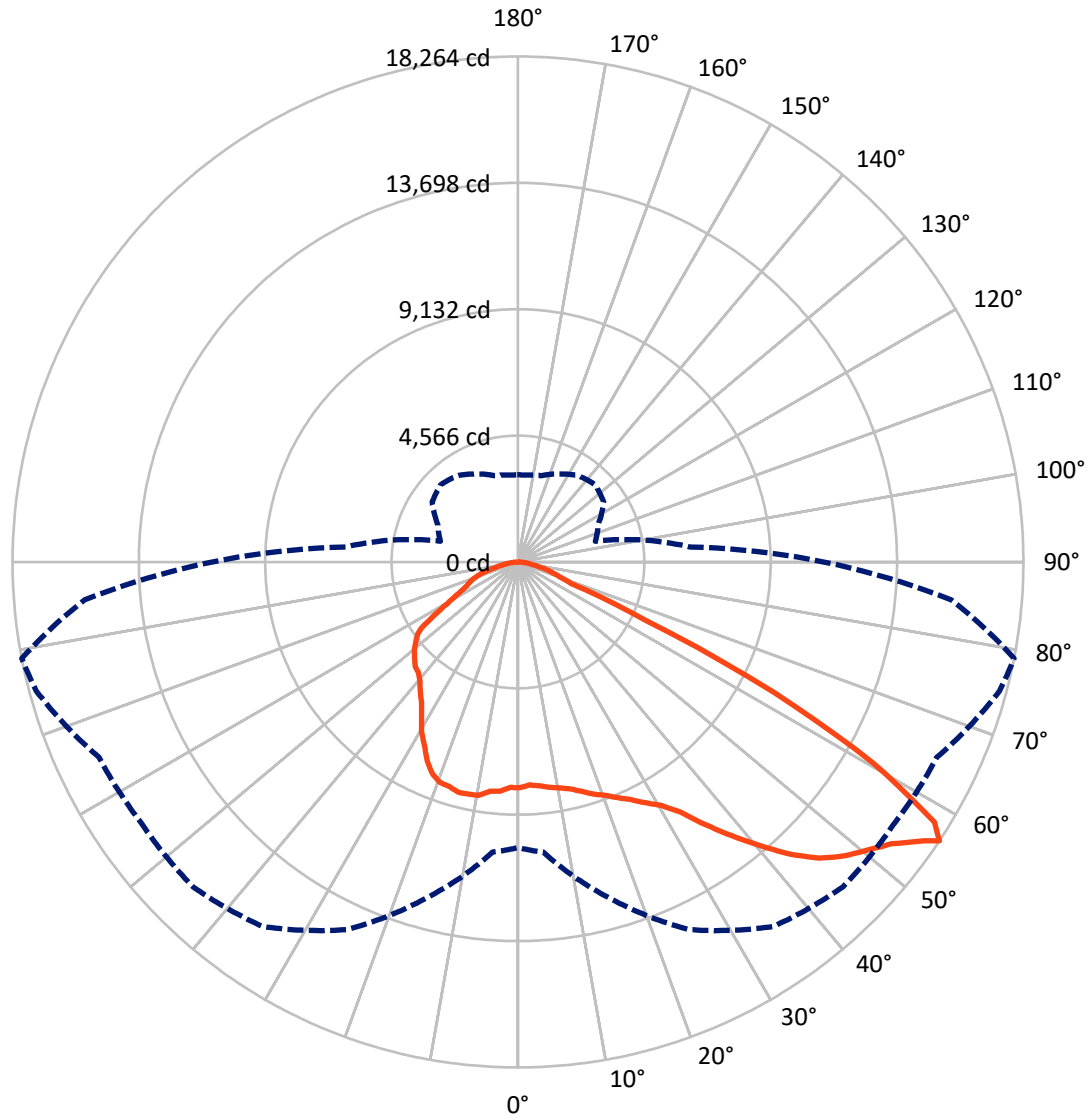
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	9412.8	0.0	9412.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22460.2	0.0	22460.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	31873.0	0.0	31873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.4	2.3
10°-20°	2029.1	6.4
20°-30°	3471.5	10.9
30°-40°	5320.5	16.7
40°-50°	7190.6	22.6
50°-60°	8258.6	25.9
60°-70°	3764.5	11.8
70°-80°	928.1	2.9
80°-90°	168.7	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°	31873.0	100.0
0°-180°	31873.0	100.0

Coefficient of Utilization



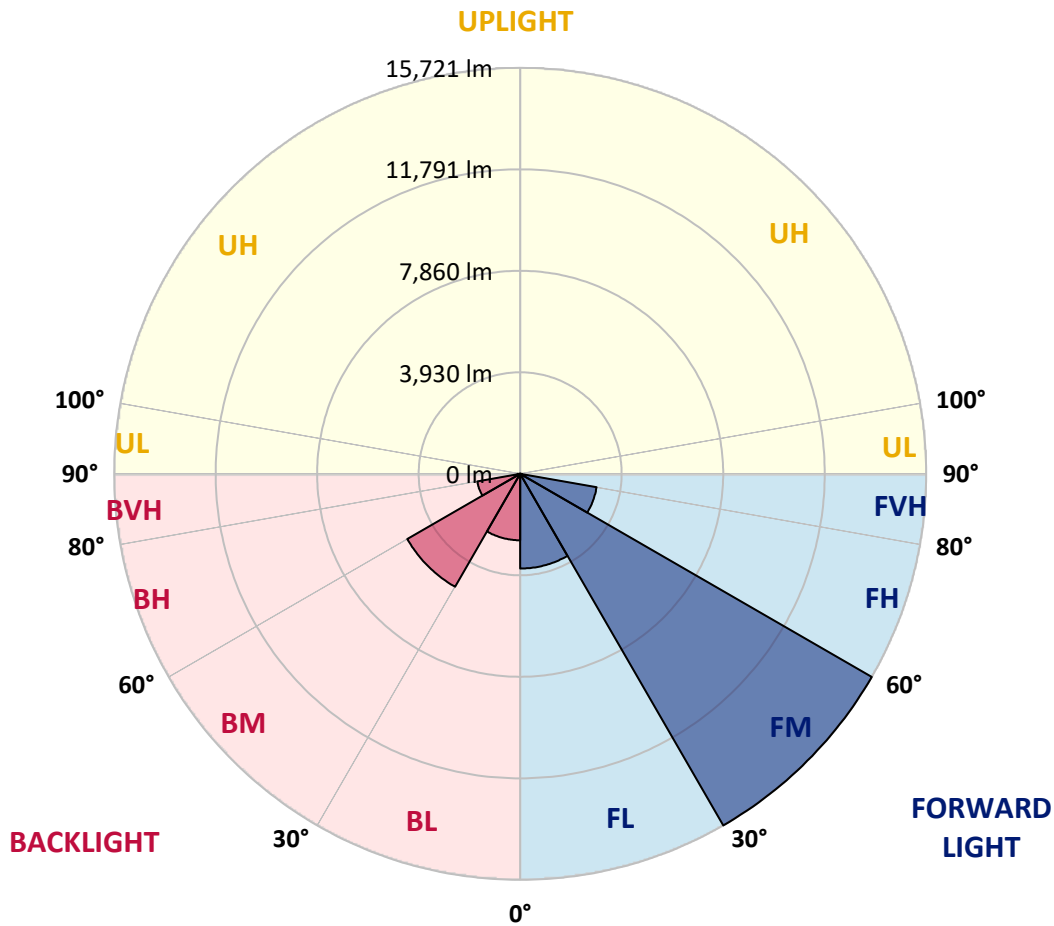
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3667.3	11.5			
FM (30°-60°)	15720.7	49.3			
FH (60°-80°)	3004.9	9.4			G2/5000
FVH (80°-90°)	67.4	0.2			G1/100
BL (0°-30°)	2574.8	8.1	B4/5000		
BM (30°-60°)	5048.9	15.8	B4/8500		
BH (60°-80°)	1687.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	101.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0
2.5°	7758.0	7738.2	7785.8	7821.5	7865.2	7920.8	7948.6	7964.5	8103.4	8067.7	8174.9
5°	7591.3	7539.6	7575.4	7603.2	7678.6	7746.1	7821.5	7940.6	8067.7	8123.3	8254.3
7.5°	7444.4	7416.6	7408.6	7428.5	7531.7	7619.0	7750.1	7924.8	8131.2	8222.5	8298.0
10°	7202.2	7162.5	7222.0	7353.0	7380.8	7563.5	7714.3	7964.5	8143.1	8301.9	8524.3
12.5°	7095.0	7055.3	7067.2	7142.6	7337.2	7511.8	7690.5	7972.4	8349.6	8413.1	8710.9
15°	7265.7	7226.0	7237.9	7218.0	7404.6	7496.0	7777.9	8131.2	8492.5	8599.7	8917.3
17.5°	7654.8	7658.7	7607.1	7563.5	7519.8	7714.3	7908.9	8226.5	8548.1	8818.1	9056.3
20°	8397.2	8266.2	8163.0	7916.8	7849.3	7932.7	8178.9	8484.6	8774.4	8996.7	9266.7
22.5°	8969.0	8980.9	8834.0	8429.0	8282.1	8317.8	8528.2	8778.4	9096.0	9254.8	9564.5
25°	9798.8	9715.4	9556.6	9235.0	8905.4	8933.2	9088.1	9314.4	9401.7	9512.9	9850.4
27.5°	10557.1	10580.9	10267.2	9965.5	9556.6	9477.2	9755.1	9794.8	9647.9	9858.3	9973.4
30°	11327.3	11307.5	11101.0	10747.7	10346.7	10362.5	10485.6	10291.1	10088.6	10203.7	10283.1
32.5°	12125.4	11899.1	11891.1	11573.5	11267.8	11120.9	10970.0	11065.3	10751.6	10775.5	10700.0
35°	12764.6	12796.3	12613.7	12387.4	12236.5	11978.5	11565.5	11736.3	11676.7	11648.9	11323.4
37.5°	13229.1	13106.0	13197.3	13121.9	12979.0	12657.4	12228.6	12391.4	12419.2	12554.2	12177.0
40°	13610.3	13558.6	13800.8	13840.5	13741.3	13046.5	12276.2	12760.6	13177.5	13471.3	13022.7
42.5°	13792.9	13904.1	14158.2	14463.9	14241.5	13499.1	12522.4	13042.5	13971.6	14436.1	13824.7
45°	14039.1	13896.1	14273.3	14833.1	14837.1	13880.2	12760.6	13423.7	14590.9	15265.9	14372.6
47.5°	13788.9	13860.4	14249.5	14960.2	15142.8	14281.2	13403.8	13963.6	15273.8	15873.3	14880.8
50°	13229.1	13372.0	14082.7	14821.2	15373.1	14706.1	14142.3	14547.3	15905.1	16361.7	14964.1
52.5°	12645.5	12724.9	13836.6	14928.4	15476.3	15254.0	15130.9	15353.2	16675.3	16913.6	15067.4
55°	11057.3	11434.5	13022.7	14880.8	15980.5	16242.6	16147.3	16472.9	17548.8	17787.0	15631.2
56°	10322.8	10521.3	12534.3	14658.4	16079.8	16603.9	16556.2	16703.1	18013.3	18263.5	15718.5
57.5°	8965.0	8980.9	10688.1	13673.8	15706.6	16711.1	16663.4	16778.6	17922.0	17751.3	14952.2
60°	5610.1	5856.2	7273.6	10517.4	13356.2	15504.1	15774.1	14849.0	15111.0	14749.7	11633.0
62.5°	2906.3	2870.5	3811.5	6150.0	8865.7	11101.0	11351.1	11307.5	10902.5	10374.4	7599.2
65°	1449.2	1457.1	1993.1	3045.2	4542.0	5812.5	6511.3	6586.8	5510.8	5070.1	3605.1
67.5°	1052.1	1091.8	1433.3	1862.1	2140.0	2394.1	2934.1	2878.5	2179.7	2072.5	1921.6
70°	817.9	853.6	1163.3	1421.4	1290.4	1290.4	1405.5	1453.1	1552.4	1596.1	1647.7
72.5°	595.5	623.3	889.4	980.7	845.7	909.2	1052.1	1163.3	1266.5	1282.4	1342.0
75°	408.9	432.8	583.6	540.0	508.2	627.3	770.2	873.5	948.9	988.6	1024.3
77.5°	266.0	274.0	333.5	281.9	325.6	405.0	500.3	587.6	663.0	694.8	702.7
80°	119.1	131.0	142.9	178.7	226.3	289.8	357.3	428.8	476.4	488.3	512.2
82.5°	67.5	67.5	87.3	127.1	166.8	210.4	258.1	309.7	365.3	377.2	373.2
85°	35.7	35.7	51.6	75.4	103.2	123.1	119.1	123.1	131.0	150.9	146.9
87.5°	11.9	11.9	15.9	15.9	19.9	23.8	19.9	27.8	35.7	35.7	35.7
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°	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0	8155.0
2.5°	8143.1	8178.9	8131.2	8234.4	8234.4	8214.6	8115.3	8147.1	8170.9	8170.9	8190.8
5°	8298.0	8286.1	8317.8	8194.7	8119.3	8091.5	7928.7	7849.3	7781.8	7777.9	7718.3
7.5°	8385.3	8353.6	8341.6	8250.3	7916.8	7714.3	7364.9	7162.5	7118.8	6963.9	7023.5
10°	8524.3	8583.8	8524.3	8028.0	7563.5	7098.9	6757.5	6443.8	6320.8	6221.5	6161.9
12.5°	8810.1	8782.3	8436.9	7765.9	7114.8	6562.9	6054.7	5725.2	5602.1	5514.8	5506.8
15°	9052.3	8913.4	8385.3	7353.0	6416.0	5828.4	5411.5	5177.3	5121.7	5129.7	5165.4
17.5°	9135.7	9040.4	8115.3	6924.2	5895.9	5205.1	5010.5	4974.8	5026.4	5086.0	5101.9
20°	9266.7	9115.9	8004.2	6340.6	5252.7	4816.0	4804.1	4931.1	5026.4	5113.8	5125.7
22.5°	9540.7	9159.5	7642.9	5788.7	4812.0	4700.9	4816.0	4923.2	5070.1	5141.6	5078.0
25°	9620.1	9064.2	7134.7	5125.7	4534.1	4629.4	4752.5	4899.4	5002.6	5042.3	5070.1
27.5°	9687.6	8917.3	6447.8	4685.0	4446.8	4625.4	4752.5	4875.6	4931.1	4966.9	4998.6
30°	9878.2	8873.7	5852.3	4391.2	4391.2	4546.0	4708.8	4740.6	4816.0	4859.7	4915.3
32.5°	9973.4	8571.9	5240.8	4204.6	4335.6	4585.7	4597.6	4657.2	4661.2	4696.9	4637.3
35°	10223.6	8357.5	4673.1	4069.6	4359.4	4546.0	4605.6	4569.8	4375.3	4280.0	4299.9
37.5°	10406.2	8250.3	4264.1	4053.7	4363.4	4589.7	4621.5	4351.5	4149.0	3990.2	4029.9
40°	10898.5	7984.3	3954.4	4025.9	4399.1	4637.3	4550.0	4256.2	3890.9	3728.1	3700.3
42.5°	11275.7	7793.7	3759.9	3994.1	4426.9	4704.8	4514.3	4065.6	3692.4	3541.5	3581.2
45°	11712.4	7750.1	3656.7	4002.1	4474.6	4740.6	4470.6	3918.7	3521.7	3462.1	3450.2
47.5°	11867.3	7436.4	3545.5	3934.6	4462.6	4728.7	4323.7	3807.5	3458.1	3466.1	3497.9
50°	11609.2	7114.8	3462.1	3795.6	4383.2	4621.5	4093.4	3660.6	3422.4	3521.7	3577.3
52.5°	11279.7	6785.3	3291.4	3609.0	4220.5	4454.7	3986.2	3652.7	3386.7	3354.9	3366.8
55°	11378.9	6515.3	3053.2	3354.9	3958.4	4145.0	3867.1	3577.3	3299.3	3180.2	3219.9
56°	11057.3	6237.4	2898.3	3196.1	3779.7	3946.5	3807.5	3509.8	3227.9	3148.5	3148.5
57.5°	10148.1	5304.3	2695.8	2942.0	3402.6	3601.1	3692.4	3470.1	3148.5	3009.5	3013.5
60°	7484.1	3771.8	2417.9	2592.6	2818.9	2977.7	3402.6	3358.9	2949.9	2854.7	2818.9
62.5°	4613.5	2755.4	2219.4	2286.9	2402.0	2533.1	2969.8	3041.3	2739.5	2636.3	2612.5
65°	2584.7	2108.2	2068.5	2096.3	2151.9	2219.4	2465.6	2624.4	2417.9	2259.1	2251.2
67.5°	1889.9	1885.9	1917.7	1941.5	1965.3	1965.3	2024.9	2088.4	2060.6	1933.5	1921.6
70°	1679.4	1691.4	1715.2	1719.1	1727.1	1699.3	1651.7	1631.8	1663.6	1584.2	1568.3
72.5°	1385.6	1425.3	1453.1	1457.1	1413.4	1377.7	1314.2	1246.7	1222.9	1207.0	1203.0
75°	1064.0	1091.8	1103.7	1099.8	1083.9	1032.3	956.8	889.4	845.7	798.0	821.9
77.5°	718.6	758.3	778.2	778.2	754.4	675.0	639.2	587.6	543.9	492.3	500.3
80°	504.2	532.0	563.8	559.8	520.1	480.4	428.8	381.2	345.4	305.7	301.7
82.5°	377.2	393.1	408.9	401.0	373.2	333.5	297.8	254.1	214.4	186.6	186.6
85°	135.0	146.9	178.7	186.6	202.5	202.5	170.7	142.9	115.1	95.3	95.3
87.5°	39.7	39.7	43.7	43.7	39.7	43.7	35.7	39.7	43.7	27.8	27.8
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)