

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: P532678

Luminaire Tested: **GALN-SA8A-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31300 lumens
Efficiency: N/A
Efficacy: 128.3 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

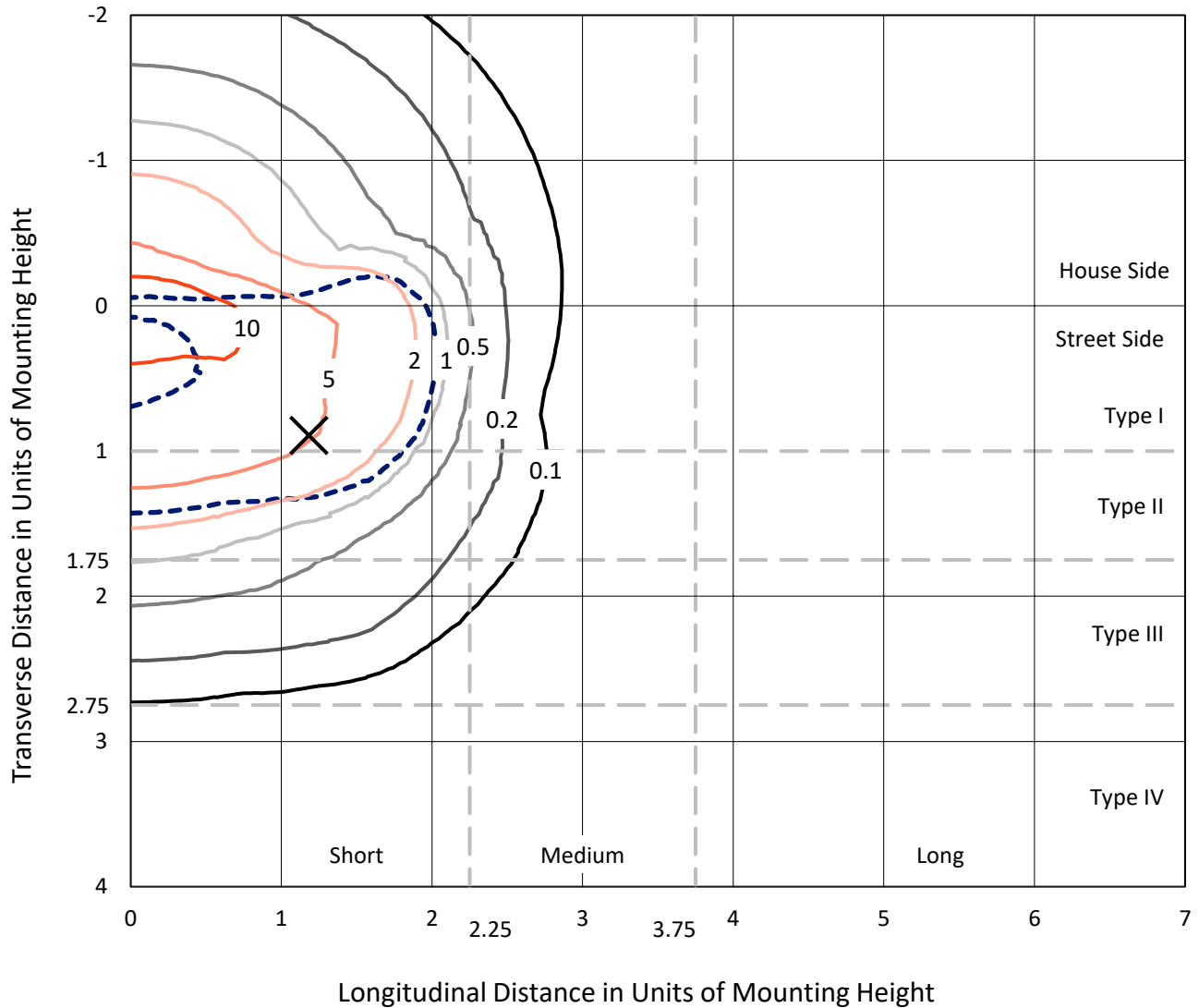
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532678
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Iso-Footcandle Lines of Horizontal Illumination

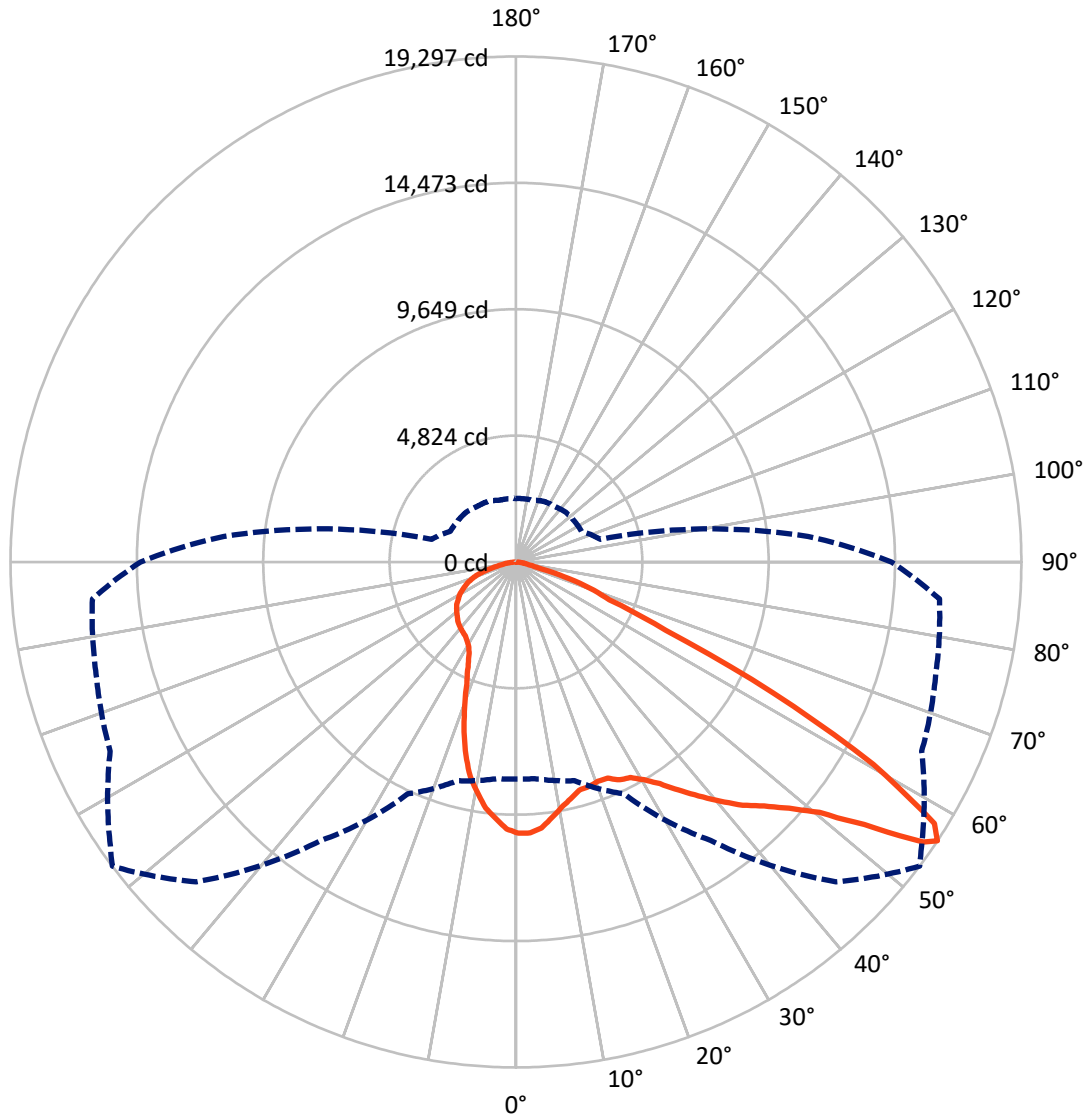
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

REPORT NUMBER: P532678
CATALOG NUMBER: GALN-SA8A-740-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9134.0	0.0	9134.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	22166.0	0.0	22166.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	31300.0	0.0	31300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.7	2.9
10°-20°	2289.6	7.3
20°-30°	3376.2	10.8
30°-40°	4824.0	15.4
40°-50°	6639.6	21.2
50°-60°	7846.2	25.1
60°-70°	4181.5	13.4
70°-80°	1060.8	3.4
80°-90°	165.4	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°	31300.0	100.0
0°-180°	31300.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532678

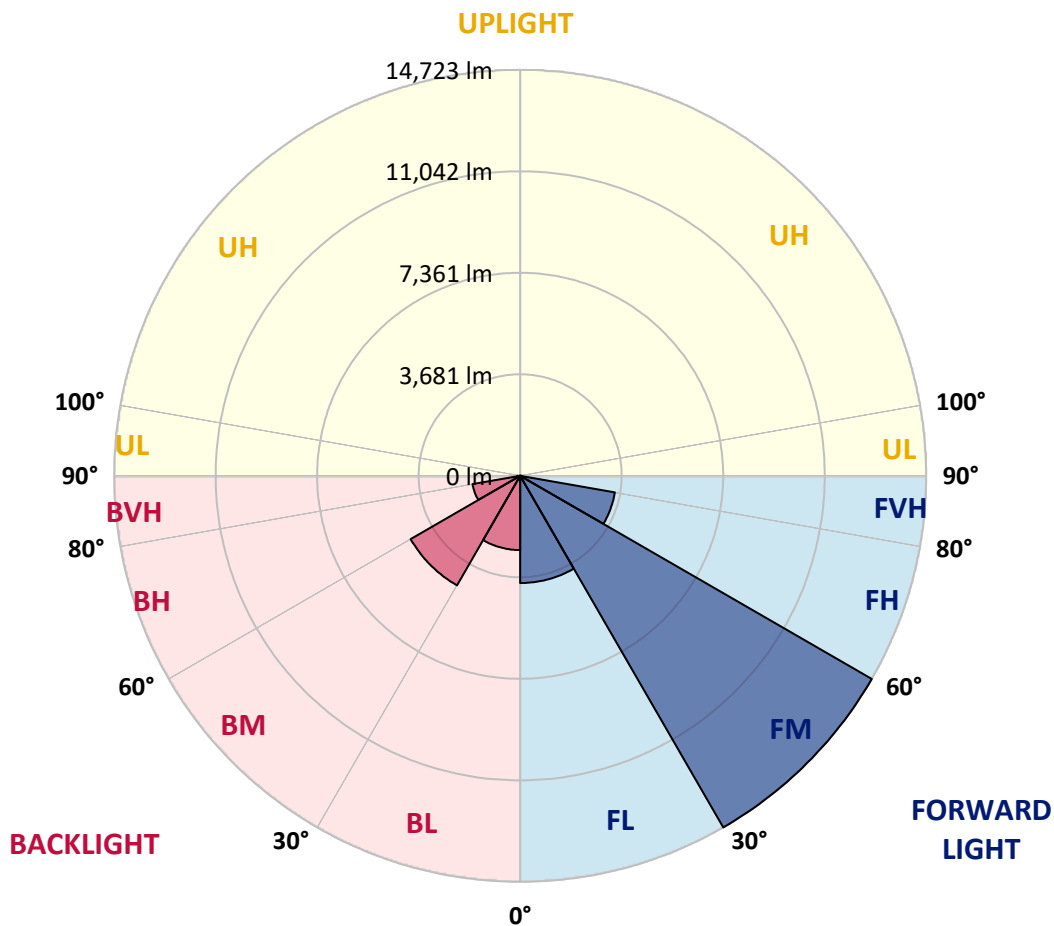
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3888.6	12.4			
FM (30°-60°)	14722.9	47.0			
FH (60°-80°)	3488.0	11.1			G2/5000
FVH (80°-90°)	66.5	0.2			G1/100
BL (0°-30°)	2694.0	8.6	B4/5000		
BM (30°-60°)	4586.8	14.7	B3/5000		
BH (60°-80°)	1754.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	98.9	0.3			G1/100
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





REPORT NUMBER: P532678

CATALOG NUMBER: GALN-SA8A-740-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3
2.5°	10226.8	10138.5	10190.6	10170.6	10335.2	10383.4	10359.3	10379.4	10471.7	10427.5	10335.2
5°	9556.2	9680.7	9704.8	9765.0	9861.4	10050.1	10198.7	10238.8	10283.0	10487.8	10467.7
7.5°	8945.9	9030.2	8986.1	9162.8	9371.5	9676.7	9857.4	9889.5	10295.0	10407.5	10491.8
10°	8560.5	8476.1	8676.9	8725.1	8962.0	9311.3	9528.1	9660.6	10030.0	10475.7	10527.9
12.5°	8203.1	8175.0	8295.5	8432.0	8697.0	9058.4	9279.2	9331.4	9901.6	10371.3	10616.3
15°	7938.1	7906.0	8026.4	8126.8	8436.0	8757.2	9038.3	9186.8	9761.0	10311.1	10540.0
17.5°	7729.3	7725.3	7793.6	7974.2	8291.4	8560.5	9014.2	9022.2	9688.7	10403.5	10604.2
20°	7717.3	7713.3	7725.3	7926.1	8215.2	8544.4	8937.9	9010.2	9688.7	10339.2	10608.2
22.5°	7817.6	7753.4	7825.7	7954.2	8163.0	8572.5	8966.0	9126.6	9921.6	10656.4	10788.9
25°	7978.3	7994.3	8034.5	8078.6	8199.1	8636.8	9214.9	9347.5	10194.7	10929.5	11037.9
27.5°	8271.4	8263.3	8279.4	8303.5	8407.9	8697.0	9315.3	9656.6	10764.8	11415.3	11306.9
30°	8701.0	8672.9	8737.1	8821.5	8725.1	8889.7	9648.6	9905.6	11294.8	11905.2	11608.0
32.5°	9090.5	9194.9	9315.3	9351.5	9235.0	9267.1	10090.3	10351.3	11736.5	12507.4	11977.4
35°	9576.3	9660.6	9821.2	9933.7	9913.6	9817.2	10692.6	11037.9	12374.9	12949.1	12366.9
37.5°	10050.1	10150.5	10415.5	10748.8	10564.1	10519.9	11335.0	11620.1	12571.7	13186.0	12652.0
40°	10813.0	10809.0	11266.7	11439.4	11604.0	11527.7	12001.5	12097.9	12676.1	13133.8	12660.0
42.5°	11708.4	11652.2	12118.0	12387.0	12599.8	12607.8	12696.2	12664.0	12724.3	12868.8	12575.7
45°	12559.6	12680.1	13149.9	13631.7	13844.5	13868.6	13282.4	13222.1	12808.6	12792.5	12415.1
47.5°	13599.6	13627.7	14013.1	14647.6	15141.4	14972.8	14041.3	13908.8	13178.0	13302.5	12684.1
50°	13659.8	13868.6	14213.9	14960.7	16478.5	16434.3	15025.0	14776.0	13772.2	14025.2	13435.0
52.5°	12399.0	12350.8	12760.4	13981.0	16378.1	17887.8	16655.2	16060.9	15049.1	14856.3	14651.6
55°	9447.8	9560.3	9921.6	11154.3	14221.9	17907.9	18875.6	18389.7	16414.3	16085.0	15848.1
56°	8287.4	8303.5	8644.8	9769.1	12977.2	17269.5	19297.2	18903.7	17092.8	16590.9	16229.6
57.5°	6870.1	6777.7	6954.4	7568.7	10953.5	15920.4	18835.4	19220.9	17887.8	17137.0	16635.1
60°	5408.5	5388.4	5316.2	5428.6	6922.3	11993.5	15679.5	16546.8	17807.5	16623.0	15932.4
62.5°	4416.8	4316.4	4460.9	4621.5	4810.2	7440.2	11017.8	11527.7	14137.6	13270.3	11969.4
65°	3425.0	3376.8	3557.5	4079.5	4191.9	4725.9	6275.8	6669.3	8347.7	8199.1	7219.4
67.5°	2356.9	2365.0	2521.6	3316.6	3886.7	3838.6	3842.6	4047.4	4356.5	3236.3	2818.7
70°	1493.7	1489.6	1574.0	2136.1	3127.9	3160.0	2999.4	2939.1	2786.6	1686.4	1786.8
72.5°	959.6	931.5	975.7	1180.5	1618.1	1871.1	1927.3	1963.4	1614.1	1325.0	1437.5
75°	542.1	513.9	497.9	550.1	638.4	738.8	811.1	835.2	935.5	1003.8	1064.0
77.5°	164.6	148.6	180.7	240.9	317.2	425.6	518.0	534.0	630.4	710.7	770.9
80°	72.3	80.3	112.4	160.6	224.9	301.1	365.4	389.5	453.7	513.9	530.0
82.5°	44.2	48.2	76.3	108.4	156.6	212.8	261.0	269.0	333.3	381.4	393.5
85°	16.1	20.1	40.2	64.2	100.4	136.5	136.5	148.6	136.5	136.5	148.6
87.5°	0.0	0.0	4.0	8.0	8.0	12.0	16.1	16.1	20.1	24.1	28.1
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°	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3	10355.3
2.5°	10383.4	10363.3	10331.2	10214.7	10202.7	10166.6	9965.8	9933.7	9965.8	9869.4	9877.5
5°	10363.3	10423.5	10182.6	10066.2	9849.4	9692.8	9512.1	9419.7	9255.1	9150.7	9267.1
7.5°	10451.6	10427.5	10126.4	9873.4	9548.2	9150.7	8833.5	8652.8	8363.7	8283.4	8343.6
10°	10419.5	10291.0	9937.7	9604.4	8990.1	8640.8	8126.8	7628.9	7355.9	7215.4	7195.3
12.5°	10375.3	10339.2	9749.0	9174.8	8528.3	7793.6	7070.8	6601.0	6155.3	5962.6	5990.7
15°	10427.5	10122.4	9395.6	8668.9	7809.6	6846.0	6067.0	5460.7	5151.5	5027.1	5027.1
17.5°	10403.5	10018.0	9227.0	8102.7	7014.6	5874.3	5019.0	4653.6	4525.2	4525.2	4561.3
20°	10415.5	10086.3	8885.7	7536.6	6075.0	4946.8	4324.4	4191.9	4248.1	4268.2	4288.3
22.5°	10483.8	9861.4	8552.4	6914.2	5203.7	4232.1	3926.9	3930.9	4031.3	4139.7	4119.6
25°	10568.1	9773.1	8146.9	6295.9	4537.2	3882.7	3786.4	3774.3	3850.6	3906.8	3914.8
27.5°	10495.8	9620.5	7733.3	5525.0	3991.1	3649.8	3629.8	3637.8	3661.9	3774.3	3738.2
30°	10732.7	9664.7	7215.4	4878.5	3690.0	3573.6	3549.5	3537.4	3573.6	3605.7	3577.6
32.5°	11025.8	9508.1	6829.9	4256.1	3541.4	3517.3	3469.2	3453.1	3473.2	3441.1	3457.1
35°	11154.3	9480.0	6328.0	3810.5	3425.0	3404.9	3376.8	3372.8	3376.8	3348.7	3324.6
37.5°	11226.6	9612.5	5753.8	3605.7	3352.7	3372.8	3308.5	3300.5	3228.2	3244.3	3256.4
40°	11351.1	9407.7	5288.1	3408.9	3308.5	3268.4	3212.2	3200.1	3152.0	3123.8	3152.0
42.5°	11170.4	9347.5	4830.3	3324.6	3244.3	3200.1	3160.0	3091.7	3075.7	3051.6	3035.5
45°	11025.8	9002.1	4420.8	3220.2	3168.0	3143.9	3067.6	2995.4	2935.1	2959.2	2923.1
47.5°	11134.2	8881.7	4015.2	3131.9	3063.6	3035.5	2959.2	2903.0	2842.8	2814.7	2806.6
50°	11567.9	9106.5	3673.9	3067.6	2975.3	2959.2	2858.8	2794.6	2738.4	2718.3	2726.3
52.5°	12603.8	9720.9	3441.1	2935.1	2891.0	2818.7	2762.5	2682.2	2646.0	2581.8	2621.9
55°	13916.8	10720.7	3380.8	2810.7	2786.6	2722.3	2646.0	2585.8	2517.5	2465.4	2453.3
56°	14338.4	11198.5	3332.6	2762.5	2722.3	2686.2	2585.8	2549.7	2441.3	2429.2	2421.2
57.5°	14679.7	11620.1	3340.7	2670.1	2630.0	2597.9	2537.6	2449.3	2377.0	2332.8	2352.9
60°	13908.8	10877.3	3188.1	2529.6	2521.6	2461.3	2377.0	2336.9	2248.5	2196.3	2184.3
62.5°	10339.2	7384.0	2585.8	2348.9	2344.9	2280.6	2184.3	2140.1	2124.1	2051.8	2051.8
65°	5954.6	4629.6	2236.5	2200.3	2168.2	2104.0	2007.6	1971.5	1931.3	1907.2	1887.2
67.5°	2541.6	2401.1	2031.7	2027.7	1991.6	1911.2	1814.9	1758.7	1706.5	1658.3	1682.4
70°	1843.0	1871.1	1835.0	1814.9	1770.7	1670.3	1586.0	1517.8	1437.5	1405.3	1429.4
72.5°	1461.5	1521.8	1574.0	1578.0	1525.8	1409.3	1317.0	1224.6	1136.3	1092.1	1112.2
75°	1108.2	1148.4	1200.6	1212.6	1136.3	1056.0	967.7	871.3	803.0	750.8	758.9
77.5°	799.0	791.0	839.2	831.2	795.0	738.8	658.5	570.2	493.9	445.7	449.7
80°	546.1	558.1	586.2	582.2	538.0	501.9	441.7	369.4	313.2	273.0	265.0
82.5°	381.4	401.5	425.6	405.5	369.4	333.3	289.1	236.9	192.7	160.6	152.6
85°	136.5	156.6	180.7	192.7	204.8	196.7	164.6	132.5	96.4	80.3	76.3
87.5°	28.1	32.1	36.1	36.1	36.1	32.1	28.1	28.1	24.1	12.0	12.0
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)