

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: P532680

Luminaire Tested: **GALN-SA8A-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31241 lumens
Efficiency: N/A
Efficacy: 128.0 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

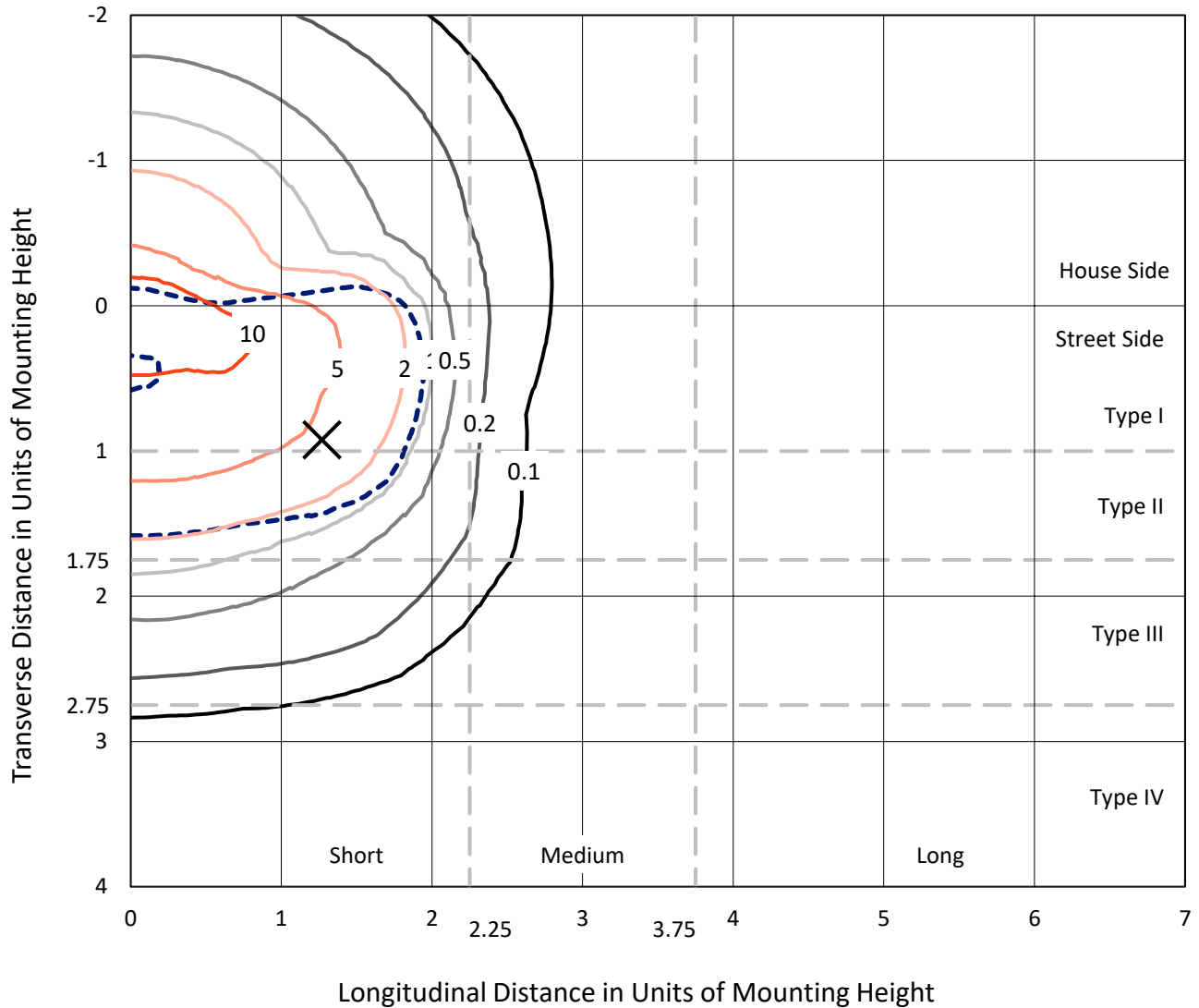
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

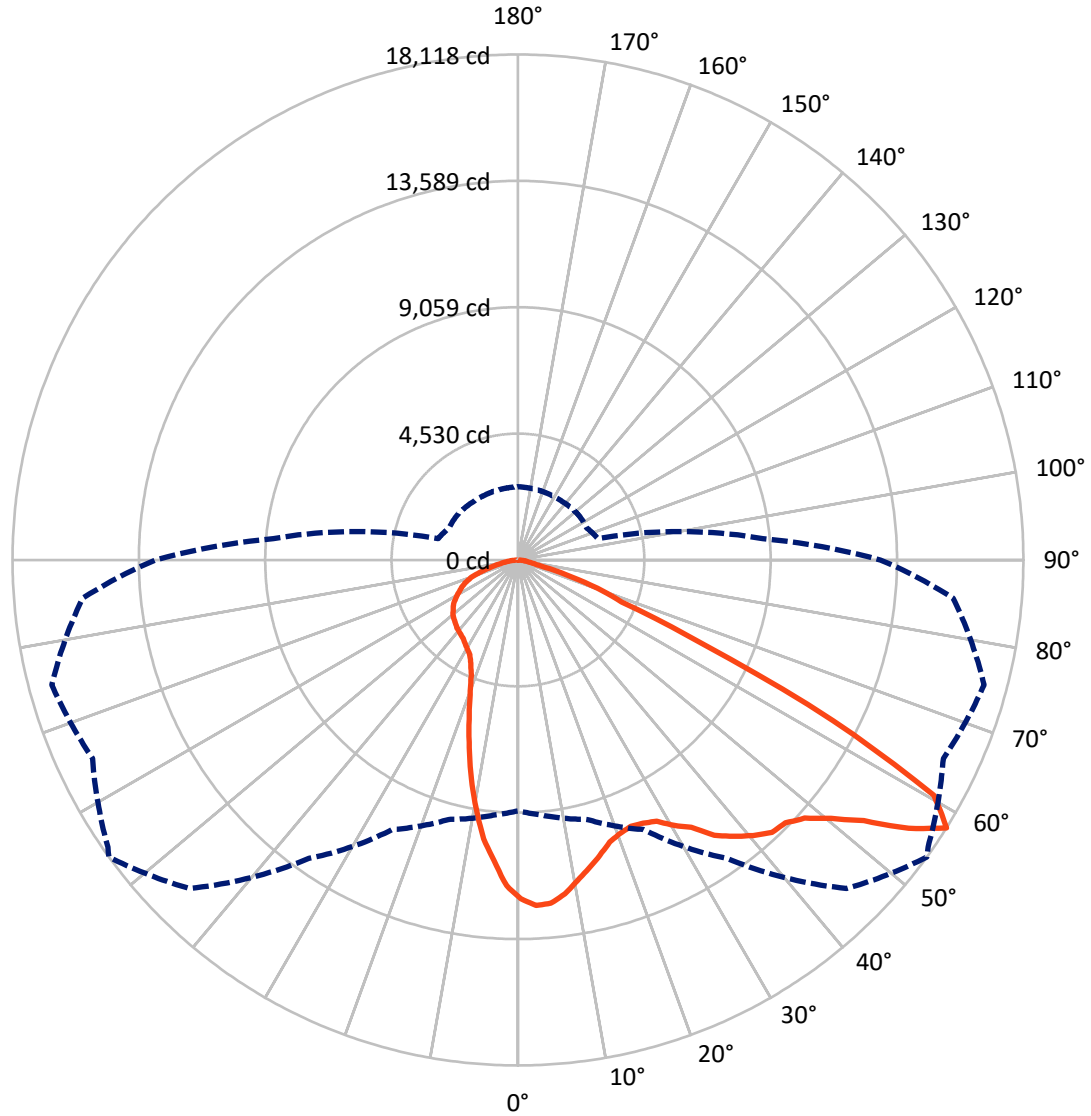
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8643.0	0.0	8643.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	22598.0	0.0	22598.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	31241.0	0.0	31241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.2	3.4
10°-20°	2424.7	7.8
20°-30°	3406.7	10.9
30°-40°	4762.6	15.2
40°-50°	6447.7	20.6
50°-60°	7853.6	25.1
60°-70°	4090.5	13.1
70°-80°	1048.1	3.4
80°-90°	159.9	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°	31241.0	100.0
0°-180°	31241.0	100.0

Coefficient of Utilization



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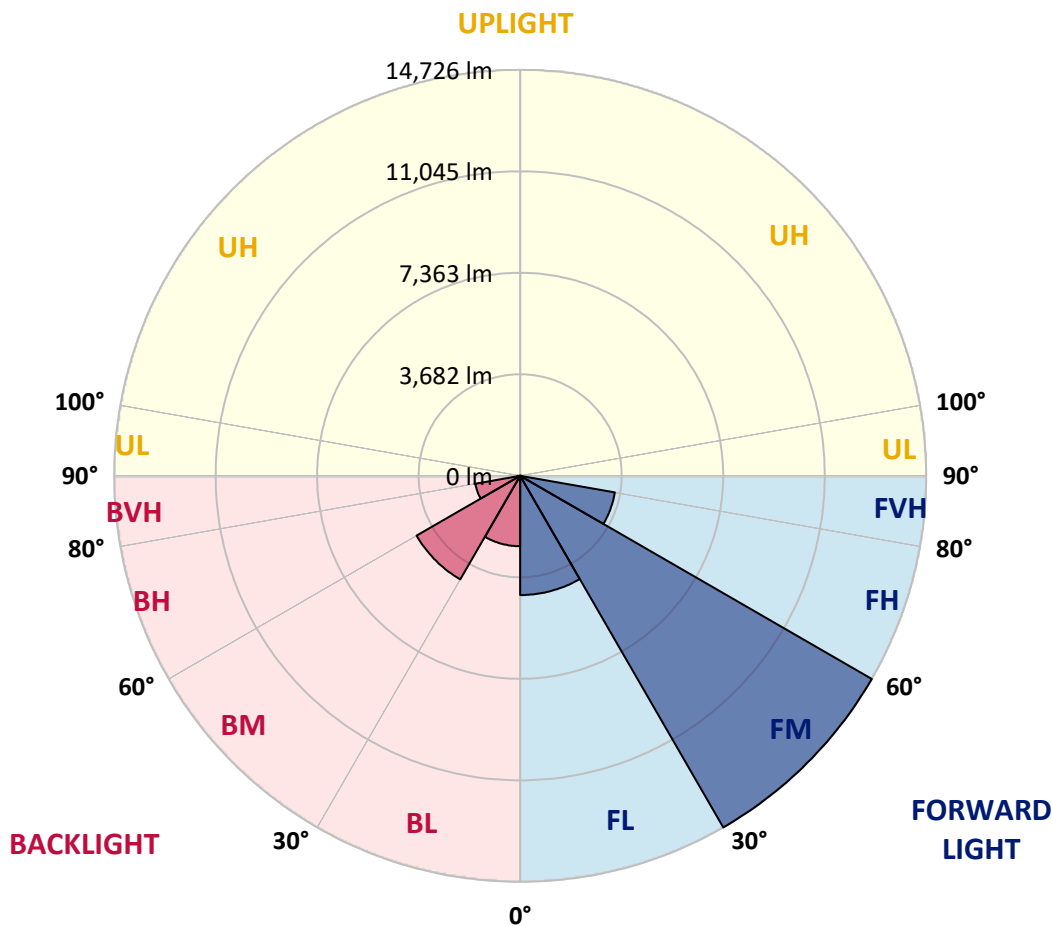
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4324.2	13.8			
FM (30°-60°)	14726.0	47.1			
FH (60°-80°)	3487.4	11.2			G2/5000
FVH (80°-90°)	60.4	0.2			G1/100
BL (0°-30°)	2554.4	8.2	B4/5000		
BM (30°-60°)	4337.8	13.9	B3/5000		
BH (60°-80°)	1651.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	99.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0
2.5°	12488.4	12440.2	12448.2	12512.4	12432.1	12400.0	12400.0	12243.4	12255.5	12147.0	12118.9
5°	12199.2	12086.8	12163.1	12259.5	12275.5	12307.7	12359.9	12319.7	12207.3	12090.8	11902.1
7.5°	11444.3	11544.7	11572.8	11641.1	11785.6	11918.1	12082.8	11970.4	11966.3	11849.9	11737.4
10°	10781.7	10721.5	10874.1	10974.5	11215.4	11436.3	11689.3	11677.2	11737.4	11604.9	11412.2
12.5°	10123.2	10075.0	10147.3	10376.2	10713.5	11034.7	11335.9	11223.5	11544.7	11520.6	11107.0
15°	9424.5	9460.6	9565.0	9777.9	10219.6	10605.1	10986.5	10990.6	11275.7	11372.0	10817.9
17.5°	8934.6	8894.4	9027.0	9344.2	9737.7	10199.5	10633.2	10721.5	11159.2	11215.4	10729.5
20°	8569.2	8625.4	8798.1	8958.7	9412.4	9970.6	10460.5	10492.6	11135.1	11287.7	10589.0
22.5°	8480.8	8448.7	8504.9	8765.9	9139.4	9745.7	10368.1	10488.6	11131.1	11263.6	10324.0
25°	8388.5	8492.9	8488.9	8749.9	9022.9	9565.0	10444.4	10577.0	11343.9	11388.1	10360.1
27.5°	8597.3	8585.2	8697.7	8717.8	9055.1	9613.2	10605.1	10705.5	11697.3	11661.2	10388.2
30°	8806.1	8745.9	8814.1	9051.0	9207.7	9890.3	11046.8	11038.7	12155.1	12131.0	10476.6
32.5°	9063.1	9035.0	9079.2	9288.0	9553.0	10259.7	11420.2	11657.1	12620.9	12773.5	10781.7
35°	9111.3	9227.7	9332.1	9613.2	9990.7	10858.0	12122.9	12319.7	13159.0	13636.8	11364.0
37.5°	9416.5	9460.6	9705.6	10203.5	10548.8	11657.1	12568.7	12693.1	13648.8	14190.9	11978.4
40°	9741.7	9793.9	10163.4	10685.4	11159.2	12179.2	12986.3	13026.4	13805.5	14616.6	12379.9
42.5°	10183.4	10231.6	10597.0	11251.6	11886.0	12624.9	13355.7	13399.9	13793.4	15106.5	13018.4
45°	10641.2	10757.7	11187.3	11930.2	12500.4	13146.9	13440.0	13620.7	13905.8	15544.2	13536.4
47.5°	11283.7	11392.1	11745.5	12472.3	13138.9	13604.7	13829.5	14006.2	14174.9	15925.7	13869.7
50°	11966.3	11986.4	12416.1	13074.6	13564.5	14122.7	14556.4	14616.6	14528.3	16367.4	14435.9
52.5°	12468.3	12532.5	12865.8	13508.3	14239.1	14925.8	15520.1	15584.3	15411.7	16532.0	14628.6
55°	11637.1	11600.9	12143.0	12998.3	14692.9	16122.4	16985.8	17034.0	16054.2	17042.0	15259.1
57.5°	8994.8	9167.5	9629.3	10661.3	13054.5	16652.5	18118.2	17945.5	16825.1	17299.0	15660.6
60°	6537.3	6497.2	6806.4	7497.0	9838.1	14351.6	17130.3	17307.0	16194.7	15592.4	12914.0
62.5°	5324.6	5268.4	5292.5	5316.6	6348.6	9524.9	12681.1	12677.1	12472.3	11207.4	8709.7
65°	4256.5	4389.0	4401.0	4581.7	4714.3	5690.0	7348.5	7742.0	6742.1	5529.4	4011.5
67.5°	3208.4	3160.2	3320.9	3963.3	4212.3	4107.9	4011.5	4055.7	2883.2	2080.1	1959.6
70°	1891.3	1871.2	2064.0	2762.7	3469.4	3264.6	3023.7	3027.7	1979.7	1453.6	1618.3
72.5°	1036.0	1032.0	1072.2	1401.4	1971.6	2047.9	1815.0	1871.2	1180.6	1176.6	1264.9
75°	578.2	566.2	554.1	618.4	710.8	750.9	767.0	775.0	811.1	907.5	943.7
77.5°	212.8	204.8	204.8	236.9	301.2	377.5	477.9	485.9	574.2	658.5	694.7
80°	72.3	80.3	108.4	148.6	200.8	269.0	325.3	333.3	405.6	461.8	473.8
82.5°	44.2	48.2	72.3	104.4	144.6	188.7	240.9	244.9	301.2	337.3	353.4
85°	20.1	24.1	40.2	64.2	92.4	124.5	128.5	128.5	124.5	128.5	120.5
87.5°	0.0	0.0	8.0	8.0	8.0	12.0	16.1	12.0	20.1	24.1	24.1
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°	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0	12143.0
2.5°	12034.6	11990.4	11853.9	11733.4	11697.3	11536.7	11299.8	11327.9	11155.2	11235.5	11151.2
5°	11870.0	11721.4	11372.0	11223.5	10834.0	10657.3	10536.8	10235.6	10095.1	10067.0	9946.5
7.5°	11448.3	11356.0	10918.3	10516.7	10103.1	9749.8	9296.0	8986.8	8765.9	8705.7	8529.0
10°	11115.0	10910.2	10303.9	9693.5	9103.2	8488.9	7898.6	7436.8	7211.9	6950.9	6862.6
12.5°	10785.8	10476.6	9657.4	8874.4	8111.4	7336.4	6621.6	6059.5	5569.6	5453.1	5413.0
15°	10581.0	10042.9	9079.2	8135.5	7051.3	6039.4	5324.6	4955.2	4654.0	4529.5	4617.9
17.5°	10311.9	9685.5	8525.0	7268.1	6075.5	5143.9	4545.6	4316.7	4208.3	4220.3	4184.2
20°	9974.6	9348.2	7798.2	6481.1	5204.2	4461.3	4120.0	4035.6	4051.7	4079.8	4067.8
22.5°	9733.7	8938.6	7272.2	5678.0	4497.4	4083.8	3943.3	3883.0	3935.2	3959.3	3939.3
25°	9549.0	8589.3	6633.7	4967.2	4087.8	3871.0	3806.7	3802.7	3883.0	3915.2	3895.1
27.5°	9380.3	8264.0	5999.2	4425.1	3814.8	3706.4	3686.3	3734.5	3786.7	3818.8	3846.9
30°	9279.9	8015.0	5404.9	3971.4	3678.2	3626.0	3589.9	3634.1	3662.2	3694.3	3678.2
32.5°	9376.3	7838.4	4830.7	3714.4	3565.8	3513.6	3561.8	3533.7	3581.9	3610.0	3565.8
35°	9677.5	7681.7	4421.1	3577.9	3437.3	3457.4	3465.4	3453.4	3473.4	3449.4	3501.6
37.5°	9974.6	7625.5	4043.7	3461.4	3377.1	3377.1	3369.0	3345.0	3385.1	3377.1	3401.2
40°	10352.1	7661.7	3722.4	3336.9	3320.9	3312.8	3280.7	3276.7	3260.6	3264.6	3272.7
42.5°	10681.4	7742.0	3537.7	3256.6	3268.7	3284.7	3224.5	3176.3	3196.4	3156.2	3156.2
45°	11030.7	7814.3	3373.1	3200.4	3188.3	3184.3	3136.1	3108.0	3092.0	3096.0	3132.1
47.5°	11580.8	7918.7	3248.6	3124.1	3132.1	3071.9	3059.8	3023.7	3039.8	3063.9	3067.9
50°	11970.4	8139.5	3152.2	3035.8	3063.9	3023.7	2951.4	2935.4	2935.4	2975.5	2967.5
52.5°	12243.4	8448.7	3059.8	2939.4	2951.4	2919.3	2895.2	2859.1	2835.0	2891.2	2919.3
55°	13078.6	8962.7	3035.8	2859.1	2855.1	2822.9	2778.8	2742.6	2730.6	2738.6	2794.8
57.5°	12998.3	8802.1	2959.5	2718.5	2710.5	2666.3	2622.2	2610.1	2606.1	2614.1	2630.2
60°	10552.9	6501.2	2642.2	2557.9	2545.9	2537.8	2493.7	2445.5	2421.4	2445.5	2425.4
62.5°	6983.0	4352.9	2329.0	2365.2	2373.2	2353.1	2280.8	2232.6	2240.7	2268.8	2224.6
65°	3429.3	2557.9	2112.2	2208.6	2216.6	2160.4	2092.1	2035.9	2007.8	2031.9	2011.8
67.5°	1959.6	1955.6	1935.5	2035.9	2031.9	1975.6	1867.2	1819.0	1770.9	1778.9	1766.8
70°	1662.4	1694.6	1734.7	1795.0	1790.9	1726.7	1598.2	1562.0	1493.8	1485.8	1465.7
72.5°	1309.1	1365.3	1453.6	1497.8	1461.7	1381.3	1297.0	1236.8	1176.6	1140.4	1152.5
75°	971.8	1052.1	1100.3	1128.4	1072.2	1028.0	959.7	887.4	815.2	783.0	771.0
77.5°	706.7	730.8	775.0	795.1	758.9	714.8	674.6	602.3	534.1	489.9	477.9
80°	493.9	510.0	542.1	542.1	542.1	522.0	469.8	397.5	353.4	313.2	305.2
82.5°	345.3	361.4	393.5	377.5	373.4	349.4	317.2	261.0	212.8	184.7	176.7
85°	120.5	132.5	160.6	192.7	204.8	200.8	180.7	144.6	112.4	92.4	84.3
87.5°	28.1	28.1	32.1	28.1	28.1	32.1	28.1	28.1	28.1	20.1	16.1
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)