

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: P533952

Luminaire Tested: **GALN-SA9B-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533952
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-SA9B-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 34744 lumens
Efficiency: N/A
Efficacy: 95.5 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

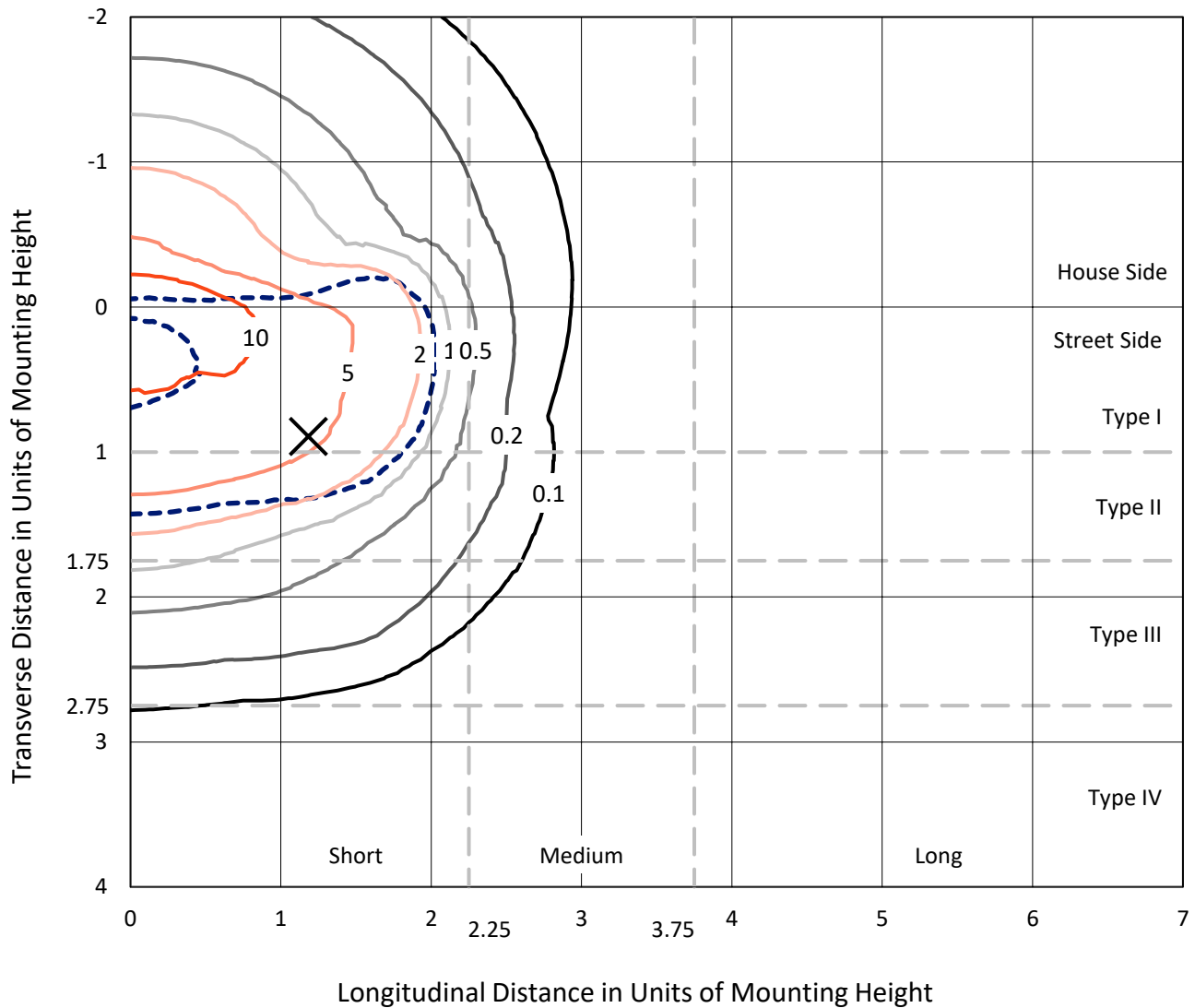
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

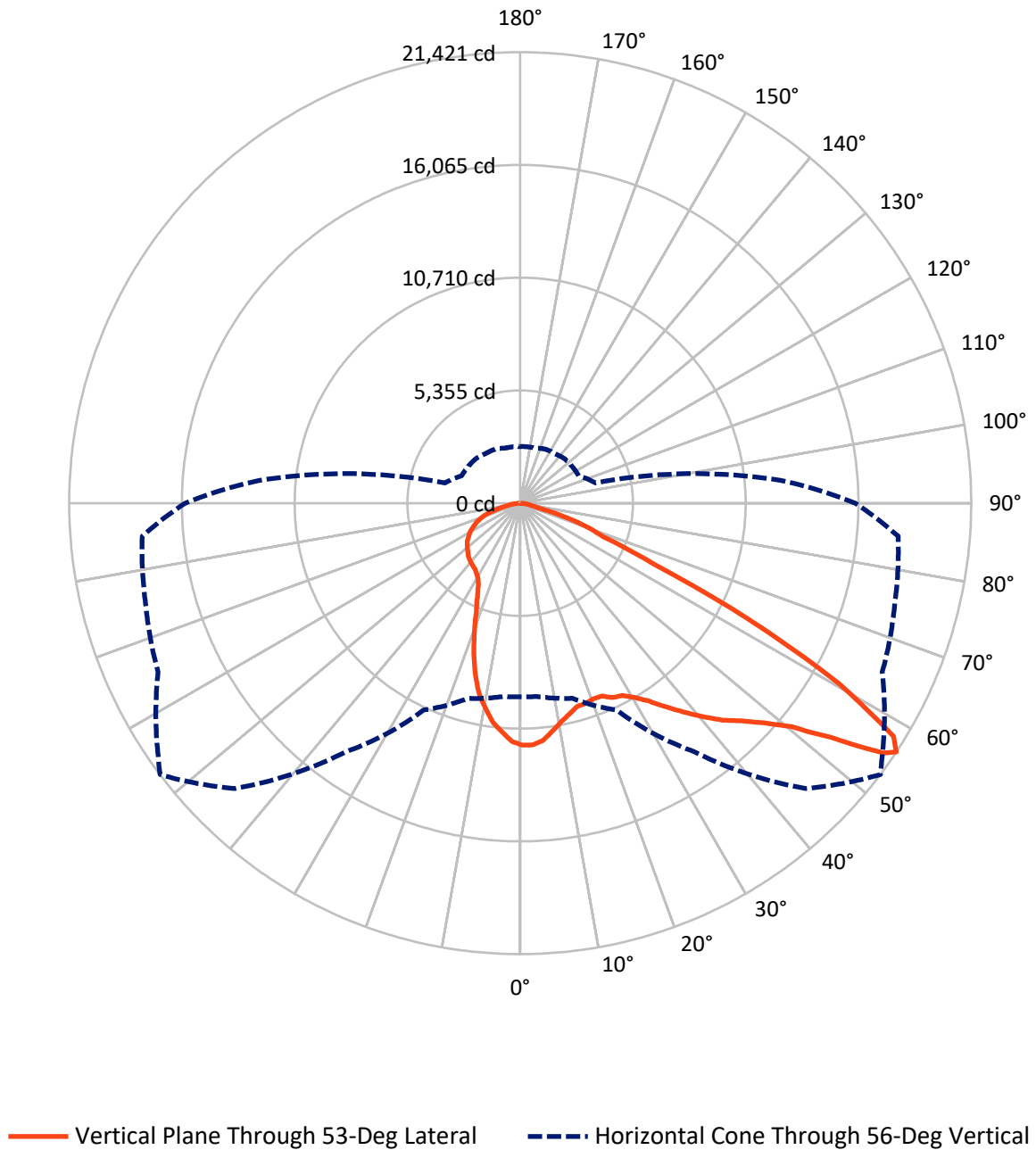


Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10139.1	0.0	10139.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	24604.9	0.0	24604.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	34744.0	0.0	34744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.6	2.9
10°-20°	2541.5	7.3
20°-30°	3747.7	10.8
30°-40°	5354.8	15.4
40°-50°	7370.1	21.2
50°-60°	8709.5	25.1
60°-70°	4641.6	13.4
70°-80°	1177.5	3.4
80°-90°	183.6	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°	34744.0	100.0
0°-180°	34744.0	100.0

Coefficient of Utilization



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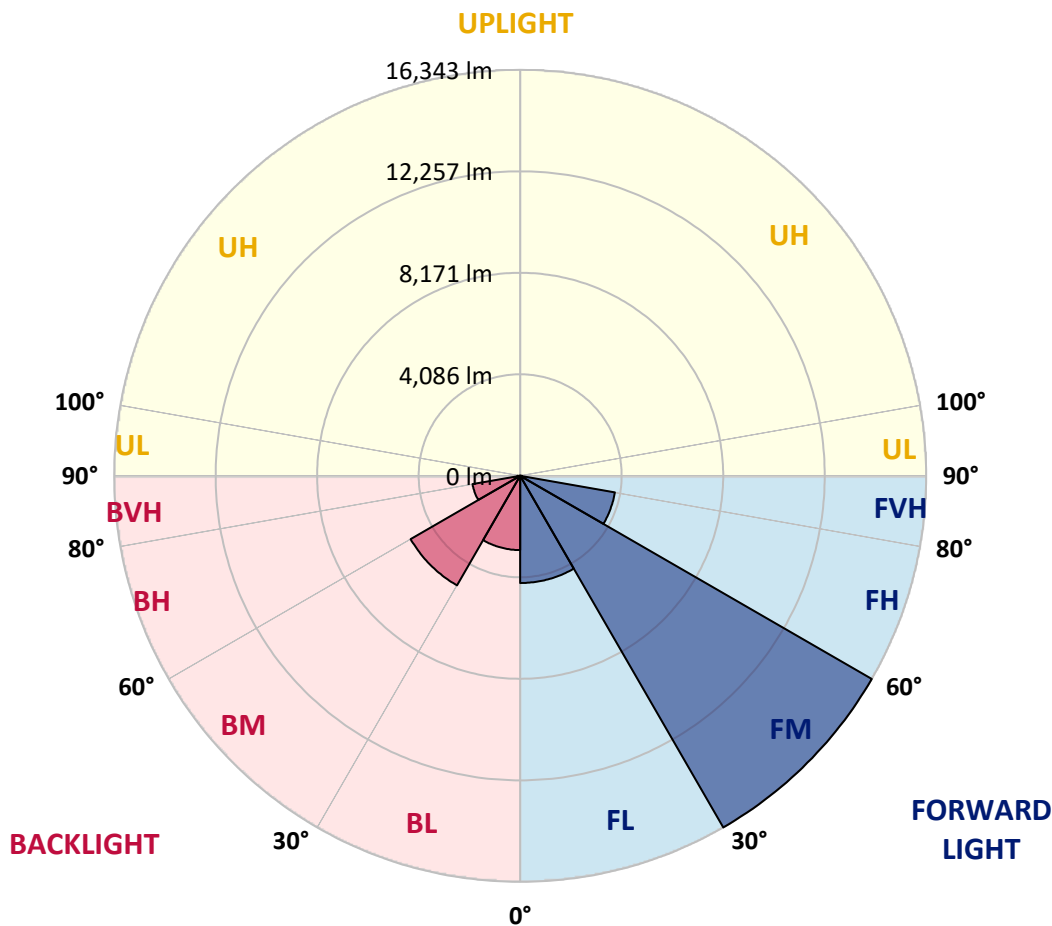
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4316.4	12.4			
FM	(30°-60°)	16342.9	47.0			
FH	(60°-80°)	3871.8	11.1			G2/5000
FVH	(80°-90°)	73.8	0.2			G1/100
BL	(0°-30°)	2990.4	8.6	B4/5000		
BM	(30°-60°)	5091.5	14.7	B4/8500		
BH	(60°-80°)	1947.3	5.6	B3/2500		G3/2500
BVH	(80°-90°)	109.8	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°	53°	55°	65°	75°	85°
0°	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7
2.5°	11352.1	11254.0	11311.9	11289.7	11472.4	11525.9	11499.1	11521.4	11623.9	11574.9	11472.4
5°	10607.7	10745.9	10772.6	10839.5	10946.5	11156.0	11320.9	11365.4	11414.5	11641.8	11619.5
7.5°	9930.3	10023.9	9974.8	10170.9	10402.7	10741.4	10942.0	10977.7	11427.8	11552.6	11646.2
10°	9502.4	9408.8	9631.6	9685.1	9948.1	10335.9	10576.5	10723.6	11133.7	11628.4	11686.3
12.5°	9105.7	9074.5	9208.2	9359.8	9653.9	10055.1	10300.2	10358.1	10991.0	11512.5	11784.4
15°	8811.6	8775.9	8909.6	9021.0	9364.2	9720.8	10032.8	10197.7	10835.0	11445.7	11699.7
17.5°	8579.8	8575.3	8651.1	8851.7	9203.8	9502.4	10006.0	10015.0	10754.8	11548.2	11771.0
20°	8566.4	8562.0	8575.3	8798.2	9119.1	9484.6	9921.4	10001.6	10754.8	11476.9	11775.5
22.5°	8677.8	8606.5	8686.8	8829.4	9061.1	9515.8	9952.6	10130.8	11013.3	11829.0	11976.0
25°	8856.1	8873.9	8918.5	8967.5	9101.3	9587.1	10228.9	10376.0	11316.4	12132.0	12252.4
27.5°	9181.5	9172.6	9190.4	9217.1	9333.0	9653.9	10340.3	10719.2	11949.3	12671.3	12551.0
30°	9658.4	9627.2	9698.5	9792.1	9685.1	9867.9	10710.2	10995.5	12537.6	13215.1	12885.3
32.5°	10090.7	10206.6	10340.3	10380.4	10251.2	10286.8	11200.5	11490.2	13027.9	13883.7	13295.3
35°	10630.0	10723.6	10901.9	11026.7	11004.4	10897.4	11869.1	12252.4	13736.6	14373.9	13727.7
37.5°	11156.0	11267.4	11561.5	11931.5	11726.5	11677.4	12582.2	12898.6	13955.0	14636.9	14044.1
40°	12002.8	11998.3	12506.4	12698.1	12880.8	12796.1	13322.1	13429.0	14070.8	14579.0	14053.0
42.5°	12996.7	12934.3	13451.3	13749.9	13986.2	13995.1	14093.1	14057.5	14124.3	14284.8	13959.4
45°	13941.6	14075.3	14596.8	15131.6	15367.8	15394.6	14743.9	14677.0	14217.9	14200.1	13781.1
47.5°	15096.0	15127.2	15555.0	16259.3	16807.5	16620.3	15586.2	15439.2	14628.0	14766.1	14079.8
50°	15162.8	15394.6	15777.9	16606.9	18291.7	18242.6	16678.2	16401.9	15287.6	15568.4	14913.2
52.5°	13763.3	13709.8	14164.4	15519.4	18180.2	19856.1	18487.8	17828.1	16705.0	16491.0	16263.7
55°	10487.4	10612.2	11013.3	12381.6	15786.8	19878.4	20952.5	20413.2	18220.3	17854.9	17591.9
56°	9199.3	9217.1	9596.0	10844.0	14405.1	19169.7	21420.5	20983.7	18973.6	18416.5	18015.3
57.5°	7626.0	7523.5	7719.6	8401.5	12158.8	17672.1	20907.9	21335.8	19856.1	19022.6	18465.5
60°	6003.6	5981.3	5901.1	6025.9	7683.9	13313.2	17404.7	18367.4	19766.9	18452.1	17685.5
62.5°	4902.7	4791.3	4951.8	5130.0	5339.5	8258.9	12230.1	12796.1	15693.2	14730.5	13286.4
65°	3801.8	3748.4	3948.9	4528.3	4653.1	5245.9	6966.3	7403.1	9266.2	9101.3	8013.7
67.5°	2616.3	2625.2	2799.0	3681.5	4314.4	4260.9	4265.4	4492.7	4835.9	3592.4	3128.8
70°	1658.0	1653.6	1747.2	2371.1	3472.0	3507.7	3329.4	3262.5	3093.2	1872.0	1983.4
72.5°	1065.2	1034.0	1083.1	1310.4	1796.2	2077.0	2139.4	2179.5	1791.7	1470.8	1595.6
75°	601.7	570.5	552.7	610.6	708.7	820.1	900.3	927.1	1038.5	1114.3	1181.1
77.5°	182.7	164.9	200.6	267.4	352.1	472.4	575.0	592.8	699.8	788.9	855.8
80°	80.2	89.1	124.8	178.3	249.6	334.3	405.6	432.3	503.6	570.5	588.3
82.5°	49.0	53.5	84.7	120.3	173.8	236.2	289.7	298.6	369.9	423.4	436.8
85°	17.8	22.3	44.6	71.3	111.4	151.5	151.5	164.9	151.5	151.5	164.9
87.5°	0.0	0.0	4.5	8.9	8.9	13.4	17.8	17.8	22.3	26.7	31.2
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°	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7	11494.7
2.5°	11525.9	11503.6	11467.9	11338.7	11325.3	11285.2	11062.4	11026.7	11062.4	10955.4	10964.3
5°	11503.6	11570.5	11303.0	11173.8	10933.1	10759.3	10558.7	10456.2	10273.5	10157.6	10286.8
7.5°	11601.7	11574.9	11240.6	10959.8	10598.8	10157.6	9805.5	9604.9	9284.0	9194.9	9261.7
10°	11566.0	11423.4	11031.2	10661.2	9979.3	9591.5	9021.0	8468.4	8165.3	8009.3	7987.0
12.5°	11517.0	11476.9	10821.7	10184.3	9466.7	8651.1	7848.8	7327.4	6832.6	6618.7	6649.9
15°	11574.9	11236.2	10429.5	9622.7	8668.9	7599.2	6734.6	6061.6	5718.4	5580.2	5580.2
17.5°	11548.2	11120.3	10242.3	8994.3	7786.4	6520.6	5571.3	5165.7	5023.1	5023.1	5063.2
20°	11561.5	11196.1	9863.4	8365.8	6743.5	5491.1	4800.2	4653.1	4715.5	4737.8	4760.1
22.5°	11637.3	10946.5	9493.5	7675.0	5776.3	4697.7	4359.0	4363.4	4474.9	4595.2	4572.9
25°	11730.9	10848.4	9043.3	6988.6	5036.4	4309.9	4203.0	4189.6	4274.3	4336.7	4345.6
27.5°	11650.7	10679.0	8584.2	6132.9	4430.3	4051.4	4029.2	4038.1	4064.8	4189.6	4149.5
30°	11913.6	10728.1	8009.3	5415.3	4096.0	3966.8	3940.0	3926.6	3966.8	4002.4	3971.2
32.5°	12239.0	10554.3	7581.4	4724.5	3931.1	3904.4	3850.9	3833.0	3855.3	3819.7	3837.5
35°	12381.6	10523.1	7024.3	4229.7	3801.8	3779.6	3748.4	3743.9	3748.4	3717.2	3690.4
37.5°	12461.9	10670.1	6386.9	4002.4	3721.6	3743.9	3672.6	3663.7	3583.5	3601.3	3614.7
40°	12600.0	10442.8	5869.9	3784.0	3672.6	3628.0	3565.6	3552.3	3498.8	3467.6	3498.8
42.5°	12399.5	10376.0	5361.8	3690.4	3601.3	3552.3	3507.7	3431.9	3414.1	3387.3	3369.5
45°	12239.0	9992.7	4907.2	3574.5	3516.6	3489.9	3405.2	3324.9	3258.1	3284.8	3244.7
47.5°	12359.3	9859.0	4457.0	3476.5	3400.7	3369.5	3284.8	3222.4	3155.6	3124.4	3115.5
50°	12840.7	10108.5	4078.2	3405.2	3302.7	3284.8	3173.4	3102.1	3039.7	3017.4	3026.3
52.5°	13990.6	10790.5	3819.7	3258.1	3209.1	3128.8	3066.4	2977.3	2937.2	2865.9	2910.4
55°	15448.1	11900.3	3752.8	3119.9	3093.2	3021.9	2937.2	2870.3	2794.6	2736.6	2723.2
56°	15916.1	12430.7	3699.3	3066.4	3021.9	2981.8	2870.3	2830.2	2709.9	2696.5	2687.6
57.5°	16294.9	12898.6	3708.3	2963.9	2919.4	2883.7	2816.8	2718.8	2638.6	2589.5	2611.8
60°	15439.2	12074.1	3538.9	2807.9	2799.0	2732.2	2638.6	2594.0	2495.9	2438.0	2424.6
62.5°	11476.9	8196.5	2870.3	2607.4	2602.9	2531.6	2424.6	2375.6	2357.8	2277.5	2277.5
65°	6609.8	5139.0	2482.6	2442.5	2406.8	2335.5	2228.5	2188.4	2143.8	2117.1	2094.8
67.5°	2821.3	2665.3	2255.3	2250.8	2210.7	2121.5	2014.6	1952.2	1894.2	1840.8	1867.5
70°	2045.8	2077.0	2036.9	2014.6	1965.6	1854.1	1760.5	1684.8	1595.6	1560.0	1586.7
72.5°	1622.4	1689.2	1747.2	1751.6	1693.7	1564.4	1461.9	1359.4	1261.3	1212.3	1234.6
75°	1230.1	1274.7	1332.7	1346.0	1261.3	1172.2	1074.1	967.2	891.4	833.5	842.4
77.5°	886.9	878.0	931.5	922.6	882.5	820.1	731.0	632.9	548.2	494.7	499.2
80°	606.2	619.5	650.7	646.3	597.2	557.1	490.3	410.0	347.6	303.1	294.2
82.5°	423.4	445.7	472.4	450.2	410.0	369.9	320.9	263.0	213.9	178.3	169.4
85°	151.5	173.8	200.6	213.9	227.3	218.4	182.7	147.1	107.0	89.1	84.7
87.5°	31.2	35.7	40.1	40.1	40.1	35.7	31.2	31.2	26.7	13.4	13.4
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)