

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: P532288

Luminaire Tested: **GALN-SA7C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532288
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-SA7C-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 30511 lumens
Efficiency: N/A
Efficacy: 80.9 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

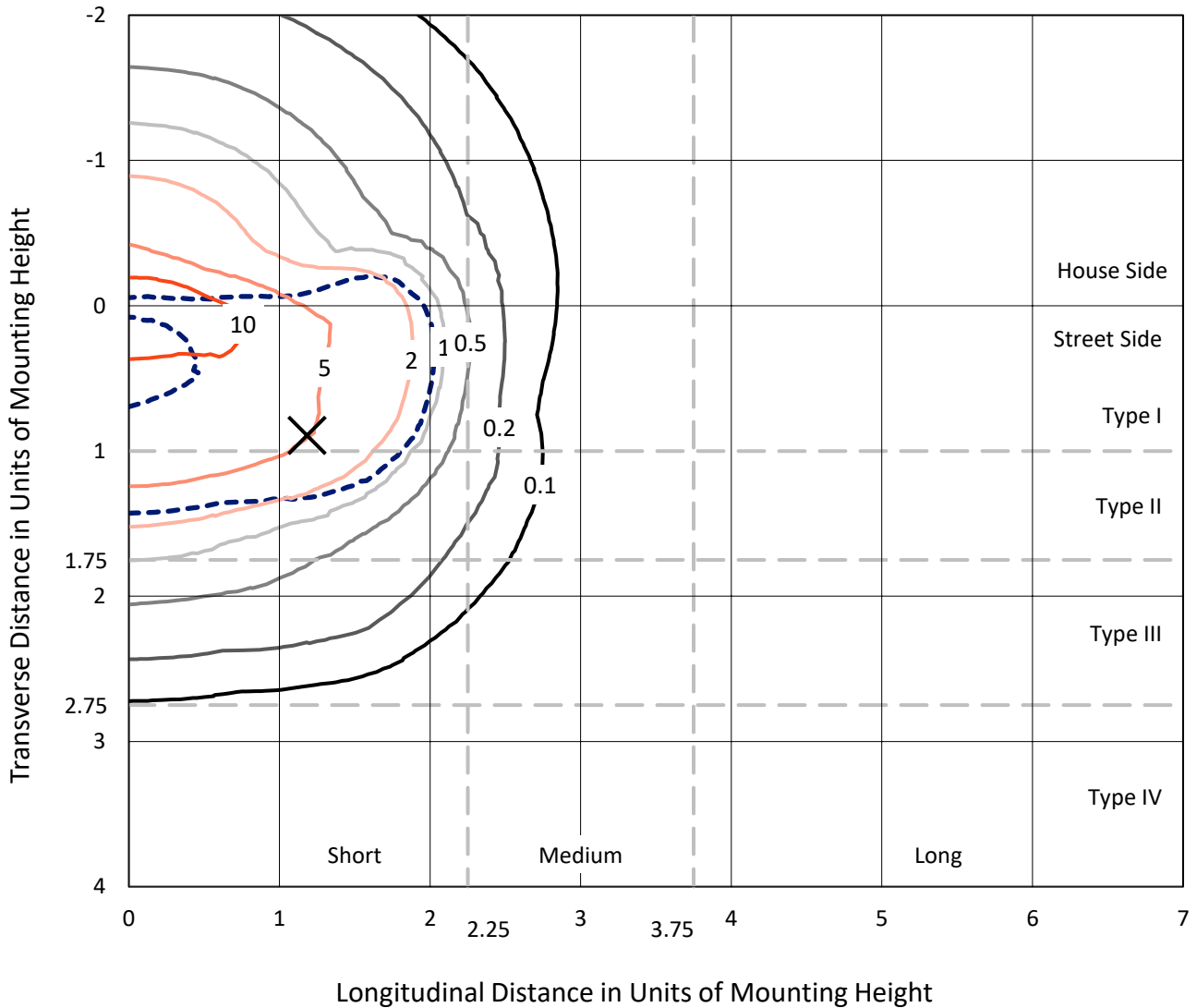
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

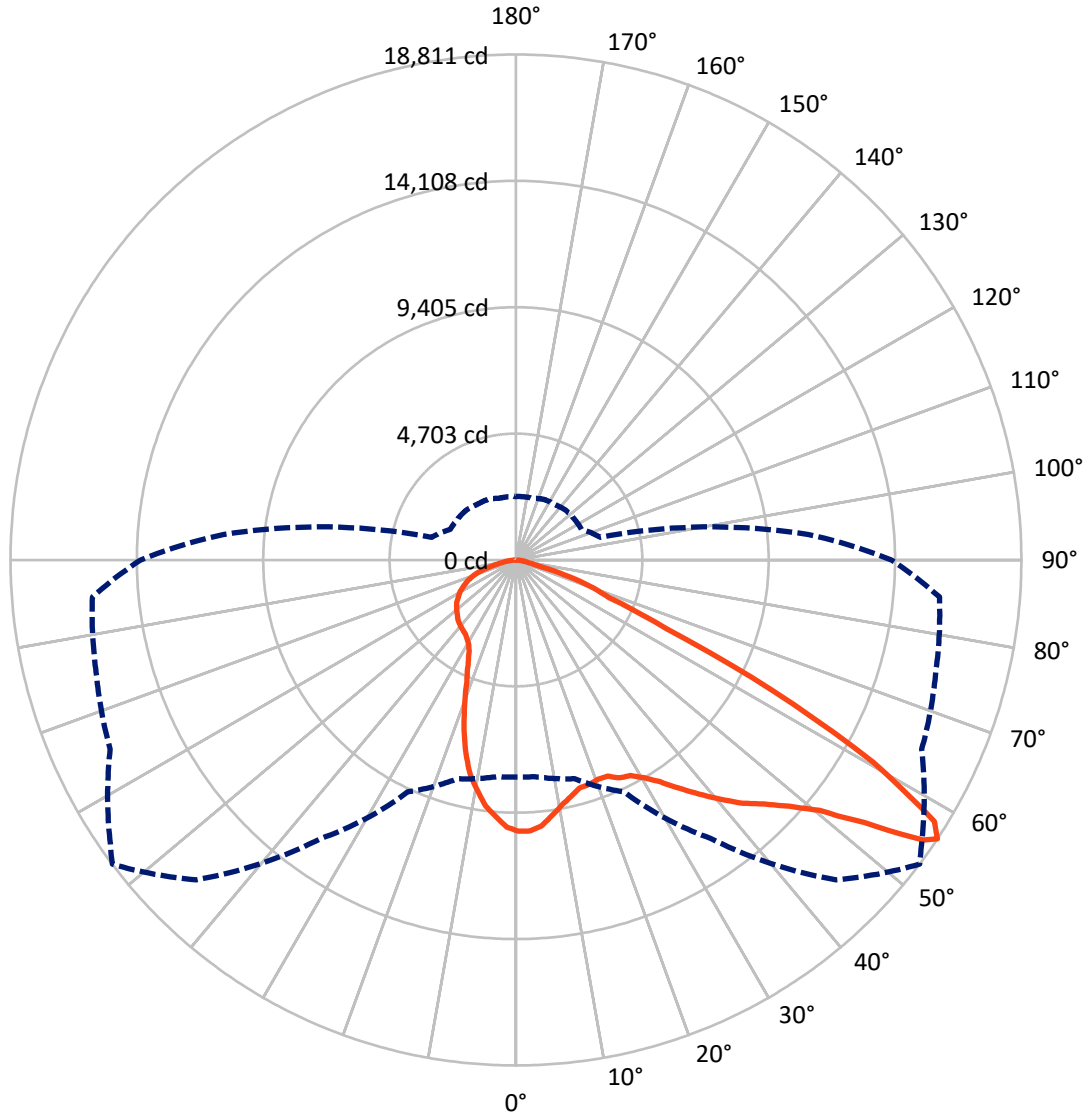
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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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	8903.8	0.0	8903.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	21607.2	0.0	21607.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	30511.0	0.0	30511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.6	2.9
10°-20°	2231.9	7.3
20°-30°	3291.1	10.8
30°-40°	4702.4	15.4
40°-50°	6472.2	21.2
50°-60°	7648.4	25.1
60°-70°	4076.1	13.4
70°-80°	1034.1	3.4
80°-90°	161.2	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°	30511.0	100.0
0°-180°	30511.0	100.0

Coefficient of Utilization



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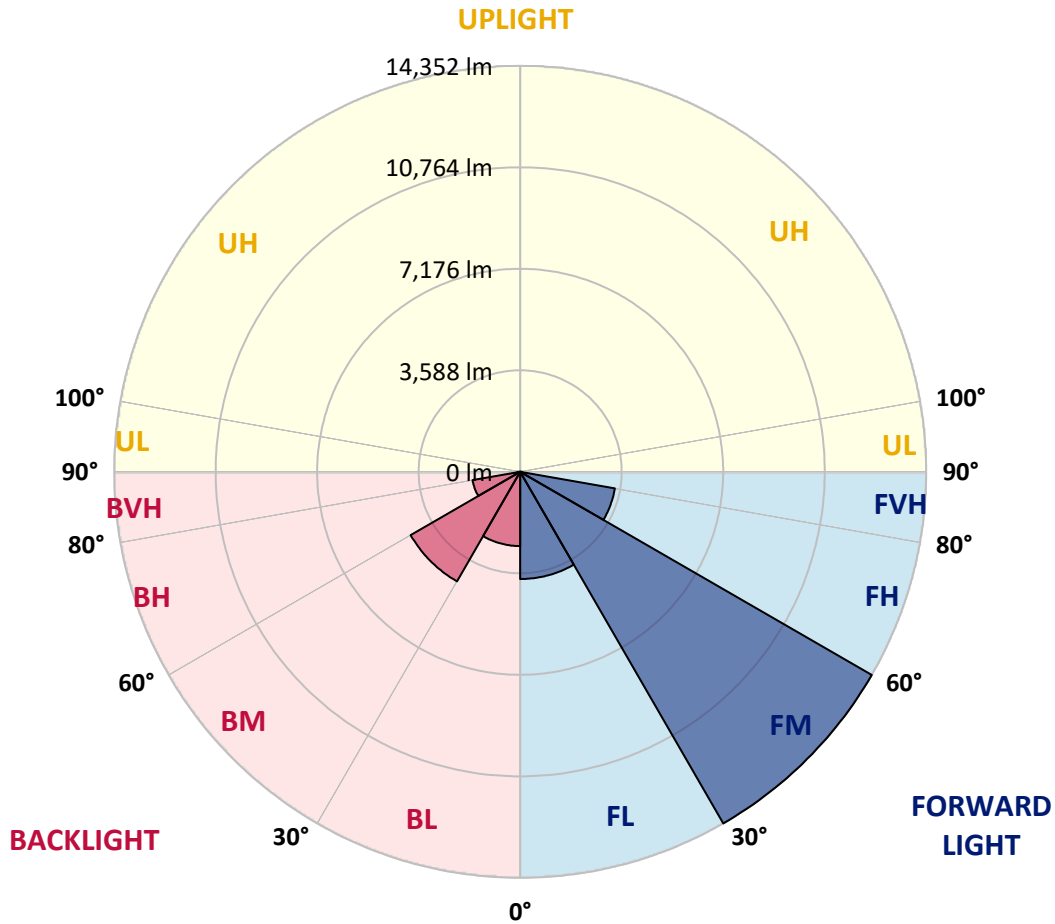
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3790.6	12.4			
FM (30°-60°)	14351.8	47.0			
FH (60°-80°)	3400.1	11.1			G2/5000
FVH (80°-90°)	64.8	0.2			G1/100
BL (0°-30°)	2626.1	8.6	B4/5000		
BM (30°-60°)	4471.2	14.7	B3/5000		
BH (60°-80°)	1710.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	96.4	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°	53°	55°	65°	75°	85°
0°	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2
2.5°	9969.0	9882.9	9933.8	9914.2	10074.7	10121.6	10098.2	10117.7	10207.7	10164.7	10074.7
5°	9315.4	9436.7	9460.2	9518.9	9612.8	9796.8	9941.6	9980.7	10023.8	10223.4	10203.8
7.5°	8720.4	8802.6	8759.6	8931.8	9135.3	9432.8	9608.9	9640.2	10035.5	10145.1	10227.3
10°	8344.7	8262.5	8458.2	8505.2	8736.1	9076.6	9288.0	9417.1	9777.2	10211.7	10262.5
12.5°	7996.3	7968.9	8086.4	8219.4	8477.8	8830.0	9045.3	9096.2	9652.0	10109.9	10348.7
15°	7738.0	7706.7	7824.1	7922.0	8223.3	8536.5	8810.4	8955.3	9515.0	10051.2	10274.3
17.5°	7534.5	7530.6	7597.1	7773.2	8082.4	8344.7	8787.0	8794.8	9444.5	10141.2	10336.9
20°	7522.7	7518.8	7530.6	7726.3	8008.1	8329.0	8712.6	8783.0	9444.5	10078.6	10340.8
22.5°	7620.6	7558.0	7628.4	7753.7	7957.2	8356.4	8740.0	8896.6	9671.5	10387.8	10517.0
25°	7777.1	7792.8	7831.9	7875.0	7992.4	8419.0	8982.7	9111.8	9937.7	10653.9	10759.6
27.5°	8062.9	8055.0	8070.7	8094.2	8195.9	8477.8	9080.5	9413.2	10493.5	11127.5	11021.9
30°	8481.7	8454.3	8516.9	8599.1	8505.2	8665.6	9405.4	9655.9	11010.1	11605.1	11315.4
32.5°	8861.3	8963.1	9080.5	9115.7	9002.2	9033.5	9835.9	10090.3	11440.7	12192.2	11675.5
35°	9334.9	9417.1	9573.7	9683.3	9663.7	9569.8	10423.0	10759.6	12063.0	12622.7	12055.2
37.5°	9796.8	9894.6	10153.0	10477.8	10297.8	10254.7	11049.3	11327.2	12254.8	12853.6	12333.1
40°	10540.4	10536.5	10982.7	11151.0	11311.5	11237.1	11699.0	11792.9	12356.5	12802.7	12340.9
42.5°	11413.3	11358.5	11812.5	12074.7	12282.2	12290.0	12376.1	12344.8	12403.5	12544.4	12258.7
45°	12243.0	12360.5	12818.4	13288.1	13495.5	13519.0	12947.6	12888.8	12485.7	12470.0	12102.1
47.5°	13256.8	13284.2	13659.9	14278.3	14759.7	14595.4	13687.3	13558.1	12845.8	12967.1	12364.4
50°	13315.5	13519.0	13855.6	14583.6	16063.1	16020.1	14646.2	14403.6	13425.1	13671.6	13096.3
52.5°	12086.5	12039.5	12438.7	13628.6	15965.3	17436.9	16235.3	15656.1	14669.7	14481.9	14282.2
55°	9209.7	9319.3	9671.5	10873.1	13863.4	17456.5	18399.8	17926.2	16000.5	15679.5	15448.6
56°	8078.5	8094.2	8426.9	9522.8	12650.1	16834.2	18810.7	18427.2	16662.0	16172.7	15820.4
57.5°	6696.9	6606.9	6779.1	7377.9	10677.4	15519.1	18360.6	18736.4	17436.9	16705.0	16215.8
60°	5272.2	5252.6	5182.2	5291.7	6747.8	11691.2	15284.2	16129.7	17358.7	16204.0	15530.8
62.5°	4305.4	4207.6	4348.5	4505.0	4689.0	7252.7	10740.1	11237.1	13781.2	12935.8	11667.7
65°	3338.7	3291.7	3467.8	3976.6	4086.2	4606.8	6117.6	6501.2	8137.2	7992.4	7037.4
67.5°	2297.5	2305.4	2458.0	3233.0	3788.8	3741.8	3745.7	3945.3	4246.7	3154.7	2747.6
70°	1456.0	1452.1	1534.3	2082.3	3049.0	3080.3	2923.8	2865.1	2716.3	1643.9	1741.7
72.5°	935.4	908.1	951.1	1150.7	1577.3	1823.9	1878.7	1914.0	1573.4	1291.6	1401.2
75°	528.4	501.0	485.3	536.2	622.3	720.2	790.6	814.1	912.0	978.5	1037.2
77.5°	160.5	144.8	176.1	234.8	309.2	414.9	504.9	520.6	614.5	692.8	751.5
80°	70.5	78.3	109.6	156.6	219.2	293.6	356.2	379.7	442.3	501.0	516.6
82.5°	43.1	47.0	74.4	105.7	152.6	207.4	254.4	262.2	324.9	371.8	383.6
85°	15.7	19.6	39.1	62.6	97.9	133.1	133.1	144.8	133.1	133.1	144.8
87.5°	0.0	0.0	3.9	7.8	7.8	11.7	15.7	15.7	19.6	23.5	27.4
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°	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2	10094.2
2.5°	10121.6	10102.1	10070.8	9957.3	9945.5	9910.3	9714.6	9683.3	9714.6	9620.6	9628.5
5°	10102.1	10160.8	9925.9	9812.4	9601.1	9448.4	9272.3	9182.3	9021.8	8920.0	9033.5
7.5°	10188.2	10164.7	9871.1	9624.6	9307.5	8920.0	8610.8	8434.7	8152.9	8074.6	8133.3
10°	10156.9	10031.6	9687.2	9362.3	8763.5	8423.0	7922.0	7436.6	7170.5	7033.5	7013.9
12.5°	10113.8	10078.6	9503.2	8943.5	8313.4	7597.1	6892.6	6434.6	6000.2	5812.3	5839.7
15°	10164.7	9867.2	9158.8	8450.4	7612.8	6673.4	5914.1	5323.1	5021.7	4900.3	4900.3
17.5°	10141.2	9765.5	8994.4	7898.5	6837.8	5726.2	4892.5	4536.3	4411.1	4411.1	4446.3
20°	10153.0	9832.0	8661.7	7346.6	5921.9	4822.1	4215.4	4086.2	4141.0	4160.6	4180.2
22.5°	10219.5	9612.8	8336.8	6739.9	5072.6	4125.4	3827.9	3831.8	3929.7	4035.3	4015.8
25°	10301.7	9526.7	7941.5	6137.2	4422.8	3784.9	3690.9	3679.2	3753.5	3808.3	3816.2
27.5°	10231.2	9378.0	7538.4	5385.7	3890.5	3557.8	3538.3	3546.1	3569.6	3679.2	3643.9
30°	10462.2	9421.0	7033.5	4755.5	3597.0	3483.5	3460.0	3448.2	3483.5	3514.8	3487.4
32.5°	10747.9	9268.4	6657.7	4148.9	3452.2	3428.7	3381.7	3366.1	3385.6	3354.3	3370.0
35°	10873.1	9241.0	6168.5	3714.4	3338.7	3319.1	3291.7	3287.8	3291.7	3264.3	3240.8
37.5°	10943.6	9370.1	5608.8	3514.8	3268.2	3287.8	3225.1	3217.3	3146.9	3162.5	3174.3
40°	11064.9	9170.5	5154.8	3323.0	3225.1	3186.0	3131.2	3119.5	3072.5	3045.1	3072.5
42.5°	10888.8	9111.8	4708.6	3240.8	3162.5	3119.5	3080.3	3013.8	2998.1	2974.7	2959.0
45°	10747.9	8775.2	4309.3	3139.0	3088.2	3064.7	2990.3	2919.9	2861.1	2884.6	2849.4
47.5°	10853.6	8657.8	3914.0	3052.9	2986.4	2959.0	2884.6	2829.8	2771.1	2743.7	2735.9
50°	11276.3	8877.0	3581.3	2990.3	2900.3	2884.6	2786.8	2724.2	2669.4	2649.8	2657.6
52.5°	12286.1	9475.8	3354.3	2861.1	2818.1	2747.6	2692.8	2614.6	2579.3	2516.7	2555.9
55°	13566.0	10450.4	3295.6	2739.8	2716.3	2653.7	2579.3	2520.6	2454.1	2403.2	2391.5
56°	13976.9	10916.2	3248.6	2692.8	2653.7	2618.5	2520.6	2485.4	2379.7	2368.0	2360.2
57.5°	14309.6	11327.2	3256.5	2602.8	2563.7	2532.4	2473.7	2387.5	2317.1	2274.0	2293.6
60°	13558.1	10603.1	3107.7	2465.8	2458.0	2399.3	2317.1	2278.0	2191.8	2141.0	2129.2
62.5°	10078.6	7197.9	2520.6	2289.7	2285.8	2223.2	2129.2	2086.2	2070.5	2000.1	2000.1
65°	5804.5	4512.9	2180.1	2144.9	2113.6	2050.9	1957.0	1921.8	1882.6	1859.2	1839.6
67.5°	2477.6	2340.6	1980.5	1976.6	1941.4	1863.1	1769.1	1714.3	1663.5	1616.5	1640.0
70°	1796.5	1823.9	1788.7	1769.1	1726.1	1628.2	1546.0	1479.5	1401.2	1369.9	1393.4
72.5°	1424.7	1483.4	1534.3	1538.2	1487.3	1373.8	1283.8	1193.8	1107.7	1064.6	1084.2
75°	1080.3	1119.4	1170.3	1182.0	1107.7	1029.4	943.3	849.3	782.8	731.9	739.7
77.5°	778.9	771.1	818.0	810.2	775.0	720.2	641.9	555.8	481.4	434.5	438.4
80°	532.3	544.0	571.4	567.5	524.5	489.3	430.5	360.1	305.3	266.2	258.3
82.5°	371.8	391.4	414.9	395.3	360.1	324.9	281.8	230.9	187.9	156.6	148.7
85°	133.1	152.6	176.1	187.9	199.6	191.8	160.5	129.2	93.9	78.3	74.4
87.5°	27.4	31.3	35.2	35.2	35.2	31.3	27.4	27.4	23.5	11.7	11.7
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)