

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: P457641

Luminaire Tested: **GALN-SA9A-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25082 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

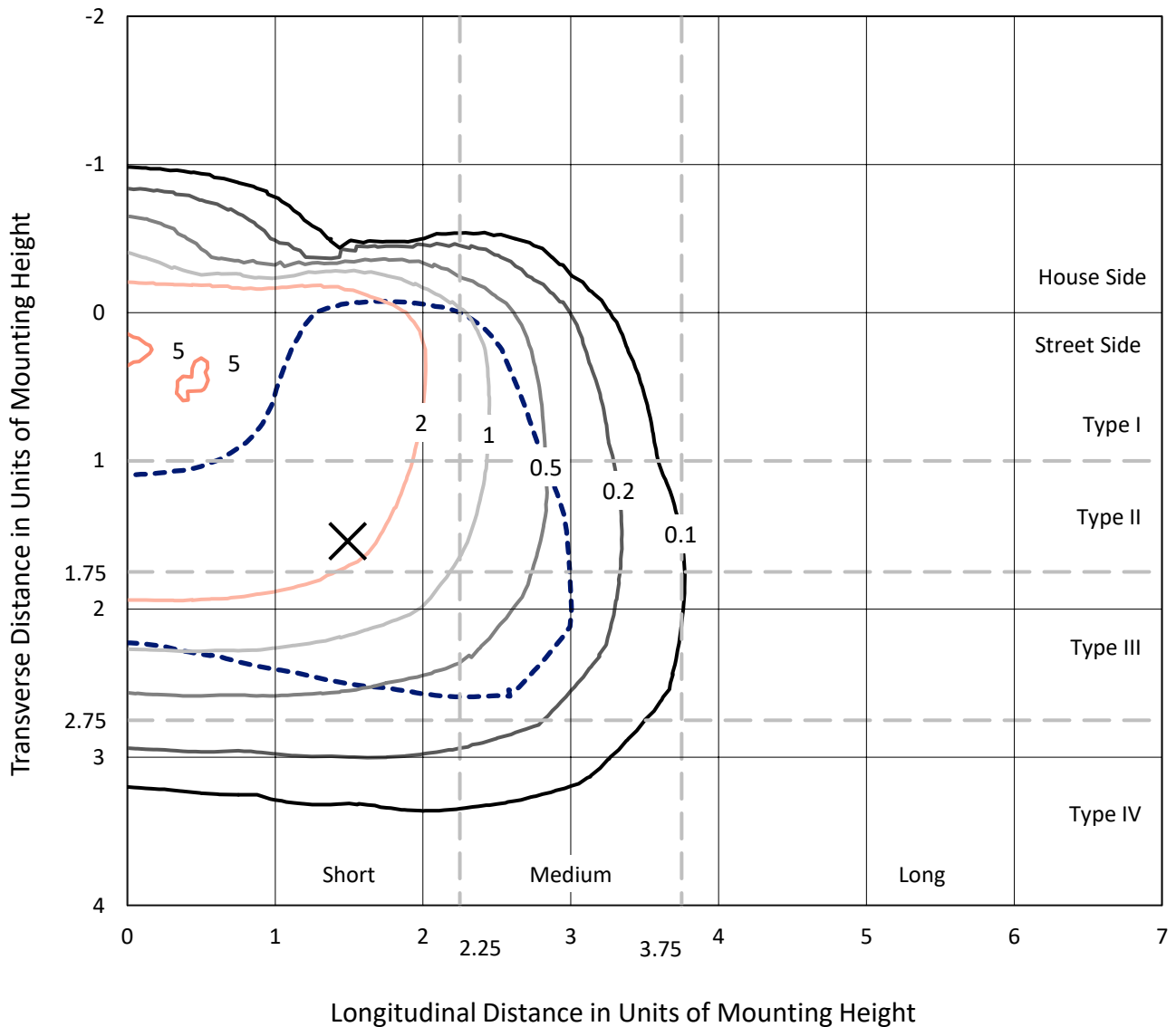
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

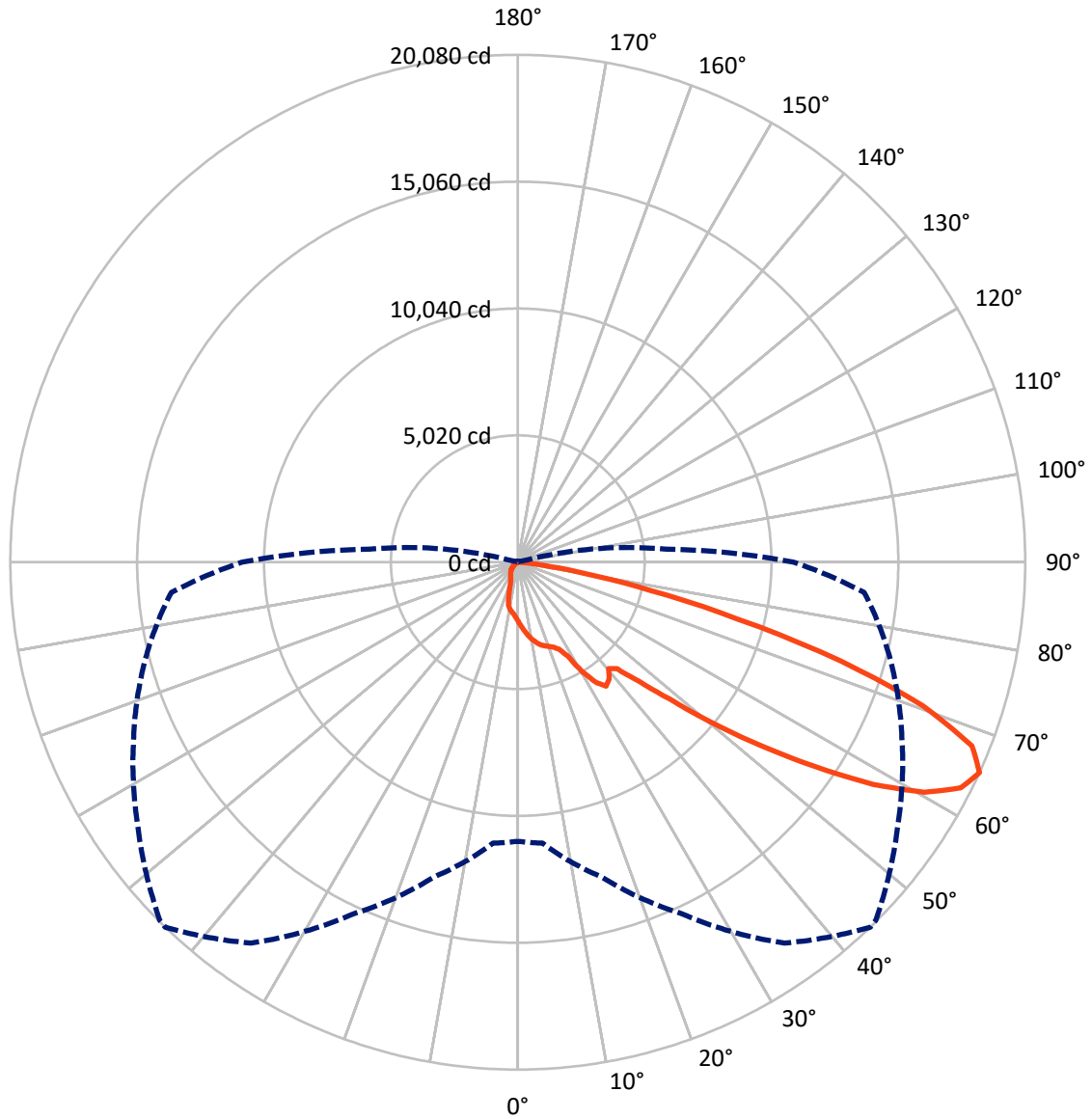
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2310.9	0.0	2310.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	22771.1	0.0	22771.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	25082.0	0.0	25082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	0.9
10°-20°	698.8	2.8
20°-30°	1184.9	4.7
30°-40°	1970.1	7.9
40°-50°	3439.8	13.7
50°-60°	6720.1	26.8
60°-70°	7796.9	31.1
70°-80°	2839.2	11.3
80°-90°	200.0	0.8
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°	25082.0	100.0
0°-180°	25082.0	100.0

Coefficient of Utilization



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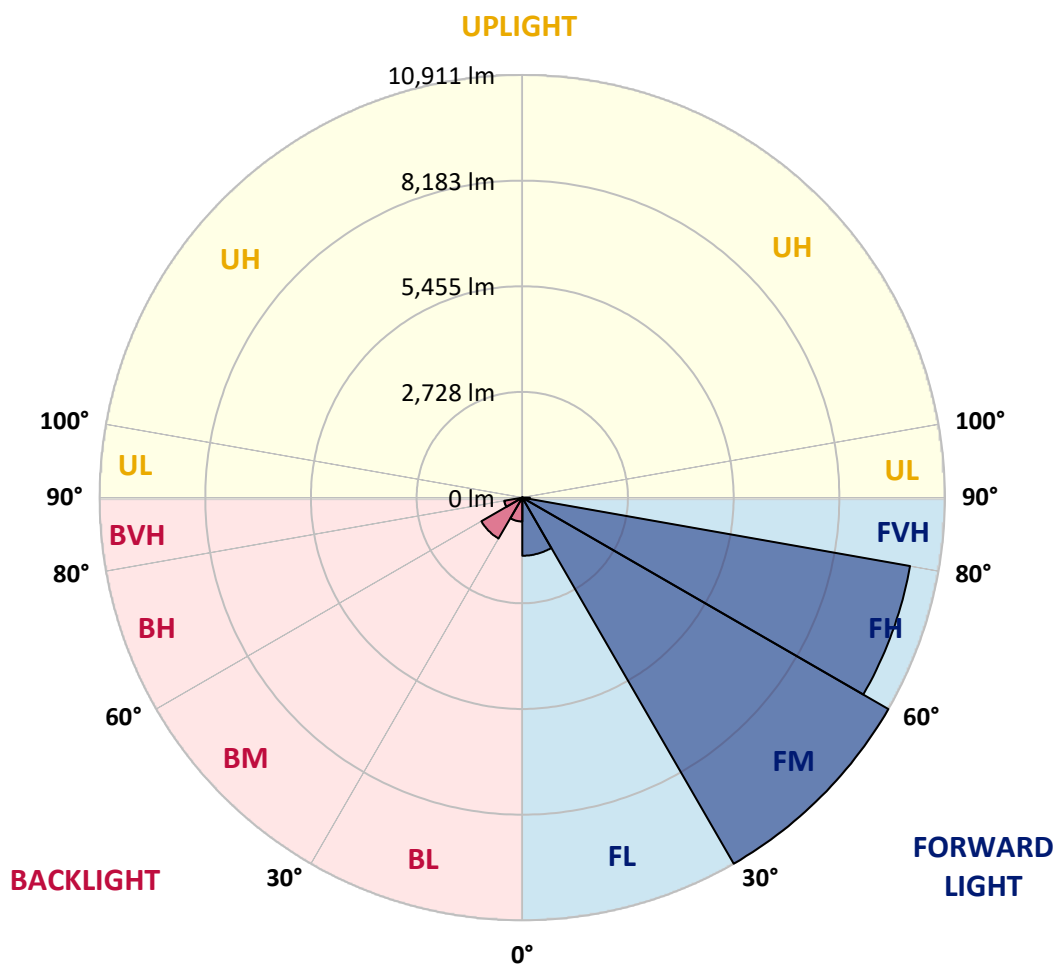
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1500.1	6.0			
FM (30°-60°)	10910.7	43.5			
FH (60°-80°)	10162.9	40.5			G4/12000
FVH (80°-90°)	197.3	0.8			G2/225
BL (0°-30°)	615.7	2.5	B2/1000		
BM (30°-60°)	1219.3	4.9	B2/2500		
BH (60°-80°)	473.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4
2.5°	2627.6	2616.1	2610.4	2579.7	2556.7	2528.0	2528.0	2491.5	2449.4	2403.4	2361.2
5°	2920.9	2901.7	2876.8	2849.9	2796.3	2719.6	2719.6	2643.0	2554.8	2476.2	2390.0
7.5°	3202.6	3185.3	3143.2	3091.4	3003.3	2922.8	2917.0	2805.9	2700.5	2581.6	2459.0
10°	3449.8	3436.4	3400.0	3300.3	3208.3	3102.9	3101.0	2976.4	2853.8	2708.1	2556.7
12.5°	3622.3	3624.2	3576.3	3480.5	3361.7	3262.0	3254.3	3131.7	3003.3	2846.1	2660.2
15°	3745.0	3745.0	3695.2	3587.8	3480.5	3392.3	3384.7	3277.3	3145.1	2974.5	2773.3
17.5°	3779.5	3791.0	3737.3	3641.5	3555.2	3478.6	3476.7	3386.6	3281.2	3116.3	2888.3
20°	3766.1	3777.6	3735.4	3660.7	3601.2	3557.2	3551.4	3515.0	3417.3	3262.0	3010.9
22.5°	3737.3	3748.8	3718.2	3674.1	3645.3	3658.7	3649.2	3679.8	3628.1	3440.2	3156.6
25°	3743.1	3754.6	3731.6	3706.7	3731.6	3814.0	3838.9	3971.1	3925.1	3666.4	3313.8
27.5°	3923.2	3946.2	3913.6	3925.1	4013.3	4205.0	4252.9	4480.9	4277.8	3953.9	3559.1
30°	4323.8	4308.5	4247.1	4302.7	4609.4	5015.7	5002.3	4965.8	4647.7	4285.5	3850.4
32.5°	4687.9	4674.5	4670.7	4910.3	5466.1	5663.5	5653.9	5301.2	4979.3	4664.9	4137.9
35°	4835.5	4783.8	4772.3	5353.0	6282.5	6021.9	5962.5	5439.2	5381.7	5078.9	4431.1
37.5°	5280.2	5243.7	5065.5	5425.8	5956.7	5870.5	5824.5	5676.9	5811.1	5445.0	4762.7
40°	6196.3	6094.7	5933.7	5581.1	5494.8	5531.2	5577.2	5981.6	6318.9	5945.2	5205.4
42.5°	7334.7	7311.7	7012.7	6355.4	5709.5	5759.3	5818.7	6617.9	7049.2	6698.4	5928.0
45°	8701.2	8733.8	8302.6	7526.4	6679.3	6721.4	6807.7	7557.0	8038.1	7869.4	7064.5
47.5°	9943.2	9918.3	9772.6	8965.7	8183.8	8089.9	8229.8	8762.6	9406.5	9433.4	8475.1
50°	11192.8	11325.0	11108.5	10792.2	10211.5	10014.1	9962.3	10223.0	11204.3	11075.9	10169.3
52.5°	12988.6	13057.6	12651.3	12570.8	12703.0	12062.9	12011.2	12074.4	12952.2	12511.4	11438.1
55°	14117.5	14077.2	13925.8	14554.5	15077.7	14278.5	14213.3	13958.4	14403.0	13525.3	12659.0
57.5°	14474.0	14531.5	14884.1	16020.6	17258.7	16580.3	16461.4	15737.0	15449.5	14470.1	13782.1
60°	14314.9	14420.3	15181.2	16871.6	18588.8	18487.3	18385.7	17168.7	16200.8	15259.8	14569.8
62.5°	13182.2	13329.8	14546.8	16720.2	19039.2	19673.6	19547.1	18061.8	16701.0	15643.1	14707.8
65°	11047.1	11156.4	12904.3	15346.0	18399.1	20079.9	20033.9	18341.6	16779.6	15292.3	13762.9
67.5°	7875.2	8247.0	9866.5	12933.0	16505.5	19386.1	19464.7	18006.2	16041.7	13776.3	11397.9
70°	4950.5	5203.5	6364.9	9259.0	13232.0	17007.7	17266.4	16471.0	13922.0	10738.6	7629.9
72.5°	2361.2	2549.0	3377.0	5860.9	9339.5	13381.5	13586.6	13521.4	10765.4	6765.5	3936.6
75°	1052.2	1123.1	1611.8	2991.8	6029.5	8994.5	9525.4	9613.5	6727.2	3309.9	1531.3
77.5°	536.6	538.6	755.1	1448.9	3010.9	5366.4	5471.8	5780.4	3647.2	1458.5	532.8
80°	285.6	304.7	400.6	684.2	1562.0	2643.0	2629.5	2890.2	1617.6	714.9	178.2
82.5°	128.4	141.8	226.2	358.4	762.8	1002.4	1080.9	1182.5	693.8	456.1	78.6
85°	38.3	46.0	111.2	180.2	276.0	289.4	323.9	417.8	392.9	323.9	40.2
87.5°	5.7	5.7	46.0	49.8	40.2	51.7	53.7	59.4	126.5	118.8	21.1
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°	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4
2.5°	2338.2	2324.8	2276.9	2236.6	2202.1	2181.1	2156.1	2140.8	2133.1	2127.4	2129.3
5°	2347.8	2315.2	2232.8	2167.6	2117.8	2064.1	2027.7	2006.7	1997.1	1981.7	1981.7
7.5°	2401.5	2349.7	2234.7	2135.1	2048.8	1976.0	1907.0	1882.1	1864.8	1861.0	1857.2
10°	2478.1	2413.0	2255.8	2117.8	1995.2	1895.5	1797.7	1711.5	1644.4	1604.2	1598.4
12.5°	2574.0	2480.0	2288.4	2106.3	1949.2	1772.8	1514.1	1339.7	1222.8	1186.4	1192.1
15°	2662.1	2560.5	2321.0	2096.7	1864.8	1470.0	1176.8	977.5	918.0	912.3	914.2
17.5°	2767.5	2646.8	2359.3	2083.3	1632.9	1123.1	874.0	820.3	831.8	851.0	849.0
20°	2876.8	2738.8	2405.3	2002.8	1303.3	845.2	772.4	778.1	795.4	812.6	816.5
22.5°	2993.7	2844.2	2459.0	1809.2	994.7	736.0	732.1	739.8	757.0	776.2	780.0
25°	3154.7	2976.4	2499.2	1556.3	753.2	680.4	688.0	701.5	716.8	737.9	741.7
27.5°	3361.7	3154.7	2520.3	1226.6	651.6	630.6	632.5	651.6	670.8	690.0	690.0
30°	3630.0	3367.4	2478.1	927.6	601.8	582.6	575.0	586.5	611.4	630.6	632.5
32.5°	3869.6	3568.7	2367.0	709.1	565.4	538.6	519.4	521.3	530.9	542.4	544.3
35°	4109.1	3764.1	2177.2	596.1	527.1	496.4	467.6	452.3	444.6	438.9	444.6
37.5°	4415.8	4007.6	1924.2	542.4	494.5	456.1	415.9	383.3	356.5	339.2	343.1
40°	4810.6	4344.9	1625.3	507.9	463.8	417.8	364.1	322.0	276.0	260.7	253.0
42.5°	5462.2	4856.6	1310.9	479.1	433.1	377.6	310.5	253.0	210.8	195.5	199.3
45°	6491.4	5502.5	1010.0	448.5	402.5	333.5	260.7	199.3	164.8	157.2	161.0
47.5°	7856.0	6338.1	778.1	414.0	364.1	285.6	205.1	157.2	136.1	134.2	132.2
50°	9140.1	7116.2	649.7	375.6	318.2	237.7	168.7	132.2	118.8	116.9	116.9
52.5°	10301.6	7674.0	529.0	331.6	268.3	195.5	141.8	116.9	105.4	99.7	99.7
55°	11334.6	8038.1	429.3	277.9	210.8	155.2	122.7	105.4	92.0	84.3	82.4
57.5°	12114.7	8082.2	322.0	222.3	157.2	120.7	105.4	92.0	76.7	67.1	63.2
60°	12448.1	7700.8	237.7	168.7	116.9	95.8	84.3	74.7	57.5	47.9	46.0
62.5°	12112.7	6959.1	176.3	128.4	90.1	70.9	59.4	55.6	40.2	28.7	26.8
65°	10911.1	5887.7	139.9	97.7	67.1	51.7	38.3	36.4	24.9	13.4	11.5
67.5°	8741.5	4611.3	111.2	72.8	47.9	34.5	24.9	23.0	13.4	3.8	3.8
70°	5684.6	2947.7	90.1	53.7	30.7	23.0	15.3	11.5	7.7	1.9	0.0
72.5°	2811.6	1378.0	72.8	42.2	21.1	11.5	5.7	3.8	5.7	0.0	0.0
75°	1090.5	490.6	53.7	28.7	11.5	5.7	3.8	0.0	1.9	0.0	0.0
77.5°	362.2	162.9	32.6	15.3	7.7	3.8	0.0	0.0	0.0	0.0	0.0
80°	134.2	63.2	17.2	9.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	53.7	24.9	11.5	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.8	15.3	7.7	5.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	11.5	7.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
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)