

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: P456156

Luminaire Tested: **GALN-SA7B-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21390 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

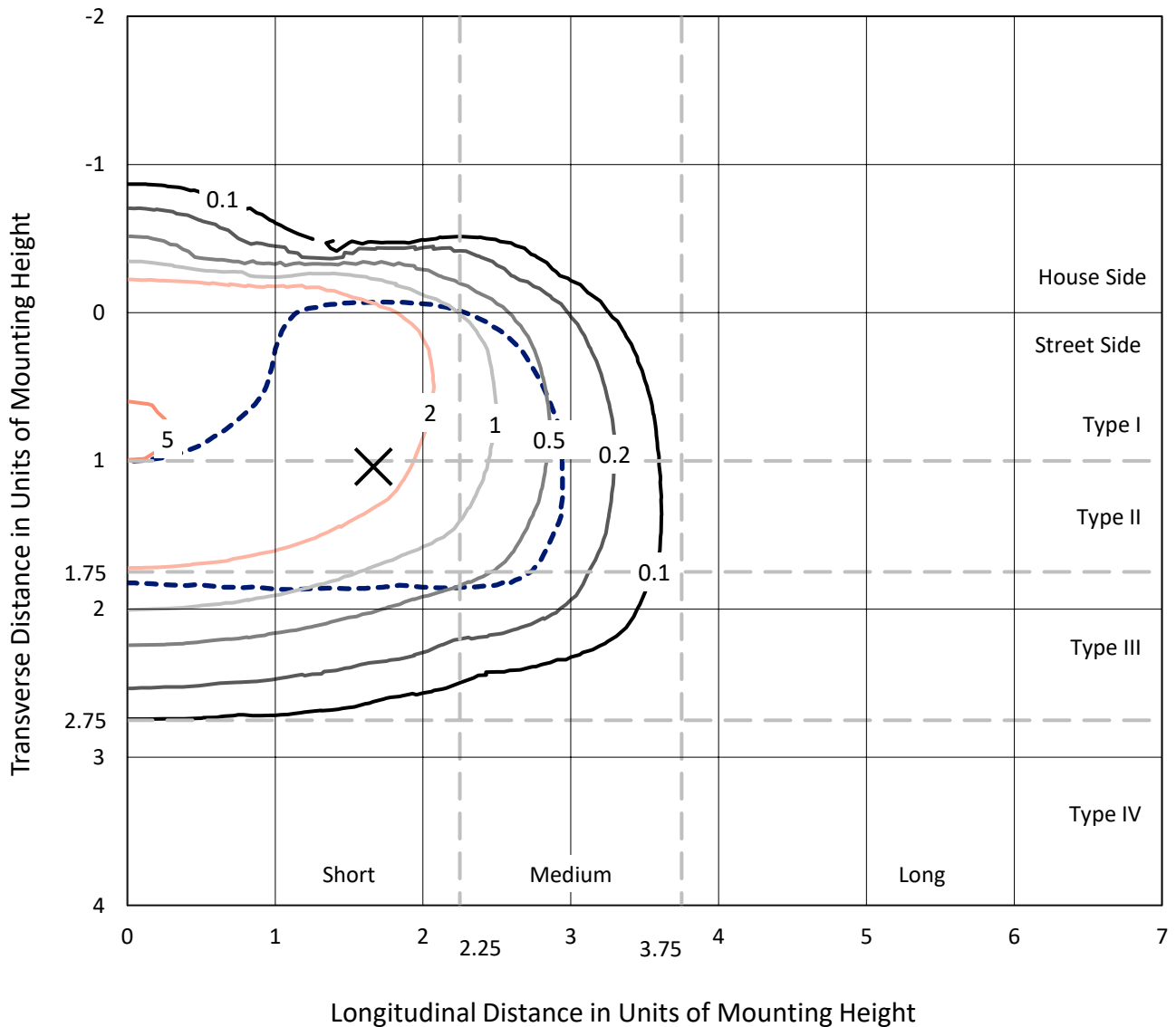
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

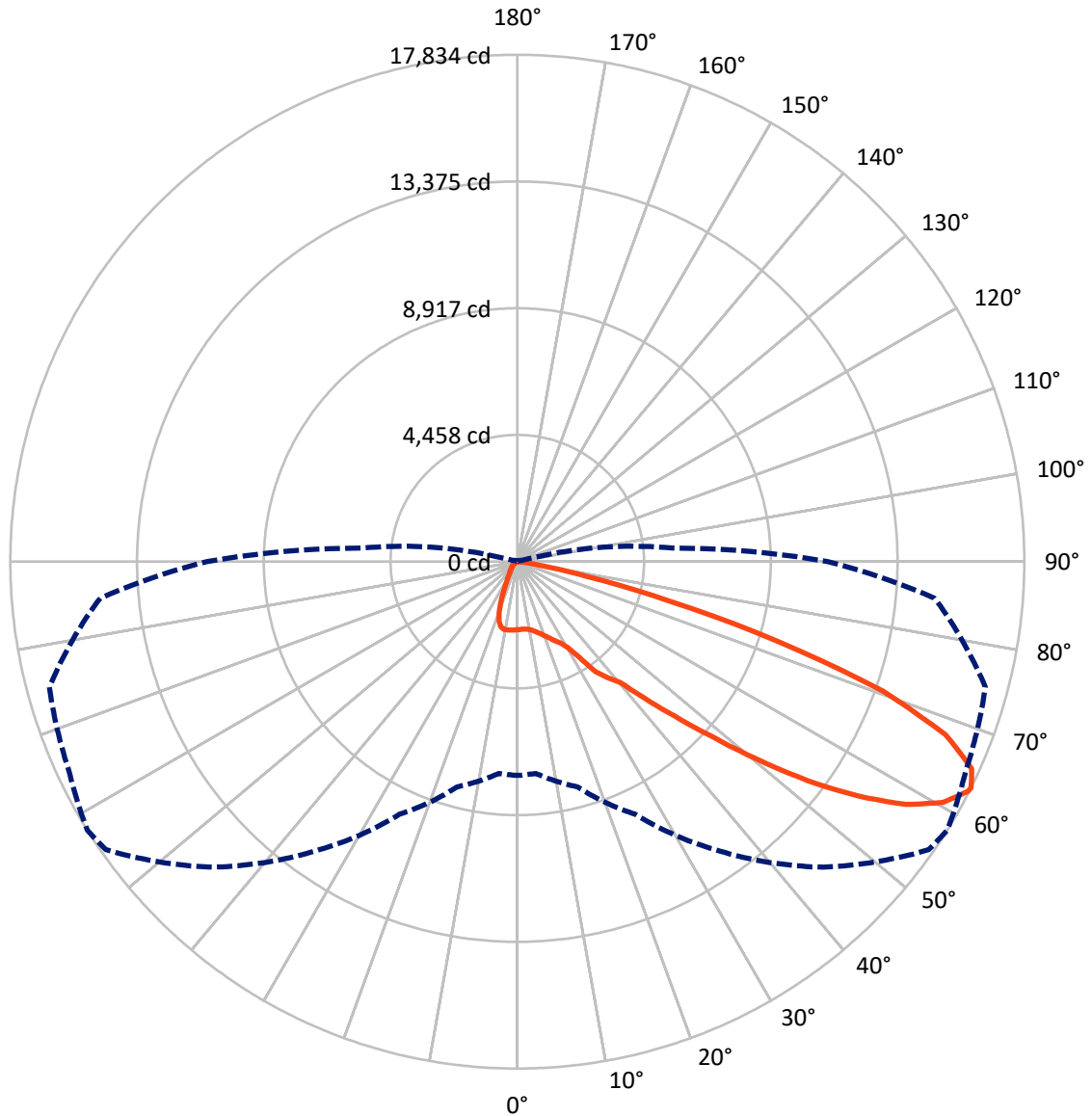
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2214.8	0.0	2214.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19175.2	0.0	19175.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	21390.0	0.0	21390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.0
10°-20°	610.6	2.9
20°-30°	1059.7	5.0
30°-40°	1947.3	9.1
40°-50°	3665.7	17.1
50°-60°	6269.9	29.3
60°-70°	6003.5	28.1
70°-80°	1530.9	7.2
80°-90°	78.3	0.4
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°	21390.0	100.0
0°-180°	21390.0	100.0

Coefficient of Utilization



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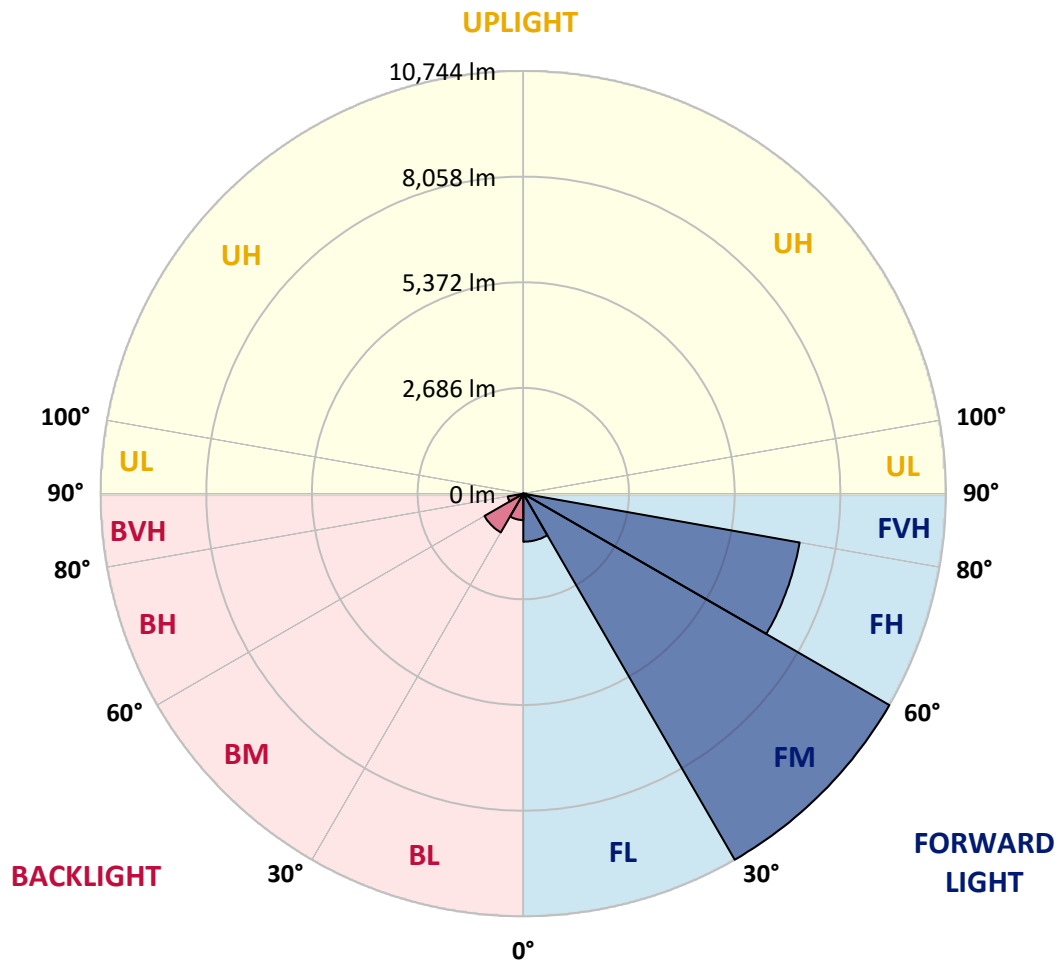
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1222.7	5.7			
FM (30°-60°)	10743.8	50.2			
FH (60°-80°)	7133.5	33.3			G3/7500
FVH (80°-90°)	75.2	0.4			G1/100
BL (0°-30°)	671.7	3.1	B2/1000		
BM (30°-60°)	1139.2	5.3	B2/2500		
BH (60°-80°)	400.9	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2335.1	2343.2	2351.2	2354.4	2365.7	2377.0	2385.0	2383.4	2396.3	2402.7	2402.7
5°	2241.7	2241.7	2262.6	2282.0	2314.2	2346.4	2377.0	2383.4	2407.6	2430.1	2438.2
7.5°	2162.8	2167.6	2183.7	2219.2	2262.6	2319.0	2380.2	2394.7	2436.6	2486.5	2507.4
10°	2125.8	2129.0	2149.9	2186.9	2241.7	2319.0	2404.4	2431.7	2496.1	2575.1	2604.0
12.5°	2117.7	2122.5	2143.5	2185.3	2248.1	2341.5	2457.5	2486.5	2579.9	2681.3	2724.8
15°	2132.2	2135.4	2156.4	2201.4	2270.7	2381.8	2528.4	2568.6	2679.7	2797.3	2853.7
17.5°	2183.7	2180.5	2195.0	2232.0	2309.3	2431.7	2613.7	2662.0	2792.5	2953.5	2990.5
20°	2402.7	2381.8	2368.9	2336.7	2367.3	2502.6	2716.8	2787.6	2948.7	3112.9	3138.7
22.5°	2874.6	2827.9	2736.1	2610.5	2513.9	2599.2	2840.8	2922.9	3130.7	3291.7	3291.7
25°	3475.3	3415.7	3323.9	3050.1	2813.4	2758.6	2980.9	3084.0	3328.7	3491.4	3438.2
27.5°	4227.4	4180.6	4001.9	3683.0	3320.7	3037.3	3143.5	3238.6	3504.3	3700.7	3589.6
30°	4839.3	4816.8	4670.2	4385.2	3985.8	3571.9	3446.3	3509.1	3737.8	3964.9	3850.5
32.5°	5356.3	5356.3	5206.5	4940.8	4567.1	4200.0	3960.0	4005.1	4224.1	4486.6	4274.1
35°	5924.7	5905.4	5784.6	5531.8	5113.1	4789.4	4691.2	4752.3	4950.4	5145.3	4621.9
37.5°	6522.2	6515.8	6390.1	6145.4	5804.0	5396.5	5166.2	5182.3	5283.8	5403.0	5029.3
40°	7171.2	7180.9	7016.6	6865.2	6543.1	6126.0	5684.8	5583.3	5678.3	6014.9	5781.4
42.5°	7937.8	7915.2	7844.4	7638.2	7378.9	7129.3	6599.5	6562.5	6646.2	7006.9	6754.1
45°	8828.3	8860.5	8738.1	8623.8	8449.9	8242.1	7799.3	7734.8	7826.6	8387.1	8027.9
47.5°	9720.5	9689.9	9768.8	9747.9	9841.3	9686.7	9295.3	9163.3	9383.9	9915.4	9387.1
50°	10400.1	10433.9	10598.2	10838.1	11239.1	11326.1	10950.9	10905.8	11004.0	11345.4	10603.0
52.5°	10841.3	10954.1	11211.7	11828.5	12551.6	13113.6	12828.6	12804.4	12764.2	12856.0	11765.7
55°	11129.6	11243.9	11580.5	12488.8	13733.7	14646.8	14661.3	14558.2	14292.5	14226.4	12852.8
57.5°	10952.5	10975.0	11454.9	12669.2	14389.1	15740.2	16213.7	16110.6	15619.5	15369.8	13812.6
60°	9844.5	9891.2	10559.5	11986.3	14104.1	16097.7	17242.8	17196.1	16658.2	16376.4	14559.8
62.5°	7881.4	8016.7	8704.3	10295.4	12778.7	15495.5	17659.9	17791.9	17373.2	16985.1	14794.9
63°	7520.7	7477.2	8203.5	9802.6	12427.6	15197.5	17666.3	17833.8	17405.4	17043.1	14730.5
65°	5567.2	5697.7	6169.5	7730.0	10342.1	13811.0	17268.5	17564.8	17286.2	16787.0	14017.1
67.5°	3125.8	3119.4	3641.2	5058.3	7238.8	10833.3	15614.6	16241.1	16183.1	15063.9	11619.2
70°	1529.9	1554.1	1768.2	2621.8	4198.4	7474.0	12975.1	13651.5	13672.5	11831.7	8034.4
72.5°	692.5	703.8	856.7	1277.1	2158.0	3979.3	8941.0	9586.8	9467.7	7540.0	4436.7
75°	365.6	389.7	471.9	642.6	1040.3	1641.0	4863.5	5488.3	5238.7	3444.7	1633.0
77.5°	270.6	278.6	320.5	409.0	557.2	639.3	2098.4	2496.1	2338.3	1246.5	541.1
80°	198.1	204.5	238.3	289.9	351.1	325.3	790.7	906.7	813.3	423.5	165.9
82.5°	120.8	122.4	173.9	215.8	220.6	182.0	260.9	280.2	293.1	238.3	90.2
85°	43.5	54.8	117.6	156.2	130.4	91.8	109.5	120.8	132.1	151.4	53.1
87.5°	4.8	6.4	56.4	75.7	37.0	33.8	40.3	45.1	48.3	56.4	25.8
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°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2409.2	2415.6	2410.8	2402.7	2401.1	2396.3	2386.6	2386.6	2386.6	2389.9	2386.6
5°	2444.6	2449.4	2438.2	2422.1	2404.4	2381.8	2357.7	2343.2	2341.5	2338.3	2330.3
7.5°	2512.3	2518.7	2492.9	2454.3	2406.0	2351.2	2299.7	2251.4	2228.8	2211.1	2211.1
10°	2610.5	2616.9	2565.4	2496.1	2399.5	2288.4	2166.0	2054.9	1967.9	1927.7	1918.0
12.5°	2728.0	2731.3	2645.9	2525.1	2365.7	2151.5	1890.6	1647.5	1478.4	1401.1	1393.0
15°	2856.9	2834.3	2721.6	2536.4	2269.1	1869.7	1418.8	1120.9	945.3	893.8	913.1
17.5°	2987.3	2945.5	2779.6	2518.7	2051.7	1418.8	953.4	764.9	710.2	695.7	695.7
20°	3109.7	3051.7	2821.5	2441.4	1674.8	977.5	707.0	661.9	652.2	642.6	644.2
22.5°	3232.1	3143.5	2858.5	2269.1	1248.1	698.9	632.9	618.4	605.5	592.6	591.0
25°	3351.3	3228.9	2873.0	1950.2	850.3	600.7	578.1	558.8	533.0	518.6	515.3
27.5°	3475.3	3332.0	2863.3	1547.6	620.0	537.9	515.3	488.0	457.4	431.6	431.6
30°	3713.6	3528.4	2829.5	1112.8	521.8	473.5	444.5	401.0	367.2	341.4	339.8
32.5°	4038.9	3784.5	2713.6	782.7	463.8	417.1	373.6	325.3	289.9	270.6	270.6
35°	4328.8	4042.2	2496.1	576.5	417.1	362.3	309.2	262.5	235.1	222.2	217.4
37.5°	4770.1	4419.0	2196.6	468.6	372.0	314.0	259.3	215.8	193.3	183.6	183.6
40°	5431.9	4879.6	1829.4	410.7	328.5	267.3	215.8	182.0	164.3	153.0	153.0
42.5°	6253.3	5443.2	1457.4	368.8	288.3	230.3	180.4	154.6	138.5	130.4	128.8
45°	7287.1	6037.5	1122.5	330.1	256.1	196.5	153.0	130.4	114.3	109.5	111.1
47.5°	8366.1	6560.8	869.6	296.3	222.2	165.9	130.4	112.7	101.5	95.0	95.0
50°	9287.3	6921.6	660.3	257.7	196.5	140.1	114.3	101.5	91.8	88.6	87.0
52.5°	10057.1	7026.3	505.7	223.8	172.3	120.8	101.5	91.8	83.7	78.9	78.9
55°	10712.5	6934.5	396.2	188.4	144.9	104.7	90.2	82.1	72.5	67.6	66.0
57.5°	11095.8	6639.8	302.8	156.2	117.6	87.0	78.9	69.2	58.0	49.9	49.9
60°	11289.0	6211.4	231.9	128.8	90.2	69.2	64.4	51.5	40.3	33.8	32.2
62.5°	11057.1	5642.9	175.5	101.5	67.6	51.5	43.5	37.0	25.8	19.3	19.3
63°	10913.8	5478.6	169.1	96.6	62.8	48.3	40.3	33.8	22.5	17.7	16.1
65°	9949.2	4762.0	138.5	77.3	49.9	33.8	27.4	24.2	16.1	8.1	6.4
67.5°	7900.7	3642.8	109.5	58.0	35.4	24.2	16.1	14.5	4.8	0.0	0.0
70°	5341.8	2352.8	85.4	41.9	24.2	14.5	8.1	6.4	1.6	0.0	0.0
72.5°	2786.0	1206.2	66.0	30.6	14.5	9.7	4.8	1.6	0.0	0.0	0.0
75°	985.6	410.7	48.3	19.3	9.7	4.8	1.6	0.0	0.0	0.0	0.0
77.5°	297.9	153.0	30.6	14.5	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	104.7	56.4	17.7	9.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	51.5	27.4	11.3	8.1	4.8	1.6	0.0	0.0	0.0	0.0	0.0
85°	29.0	17.7	9.7	8.1	4.8	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	12.9	9.7	8.1	6.4	3.2	1.6	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)