

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: P457780

Luminaire Tested: **GALN-SA9A-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457780
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-SA9A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 22375 lumens
Efficiency: N/A
Efficacy: 81.7 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

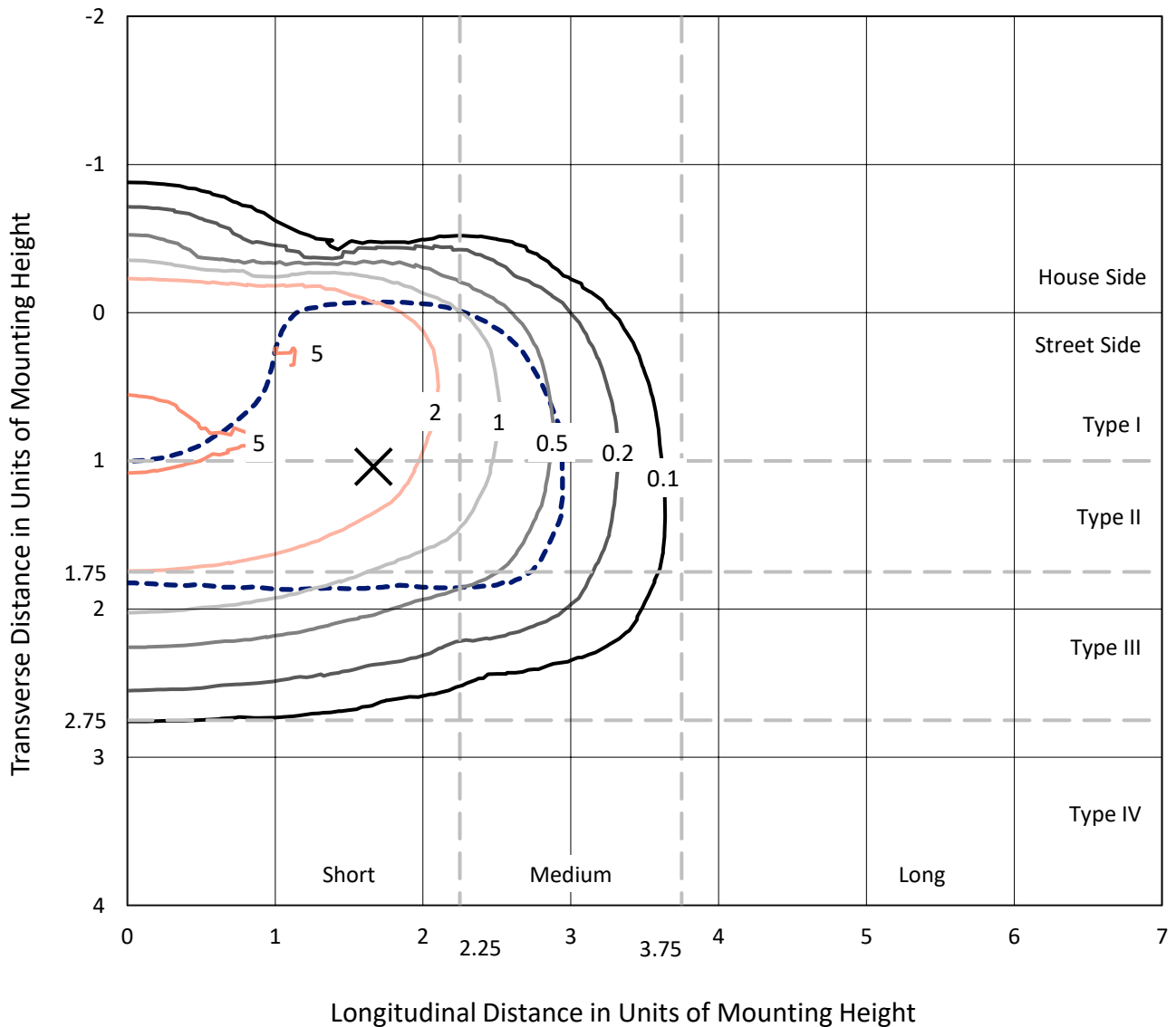
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

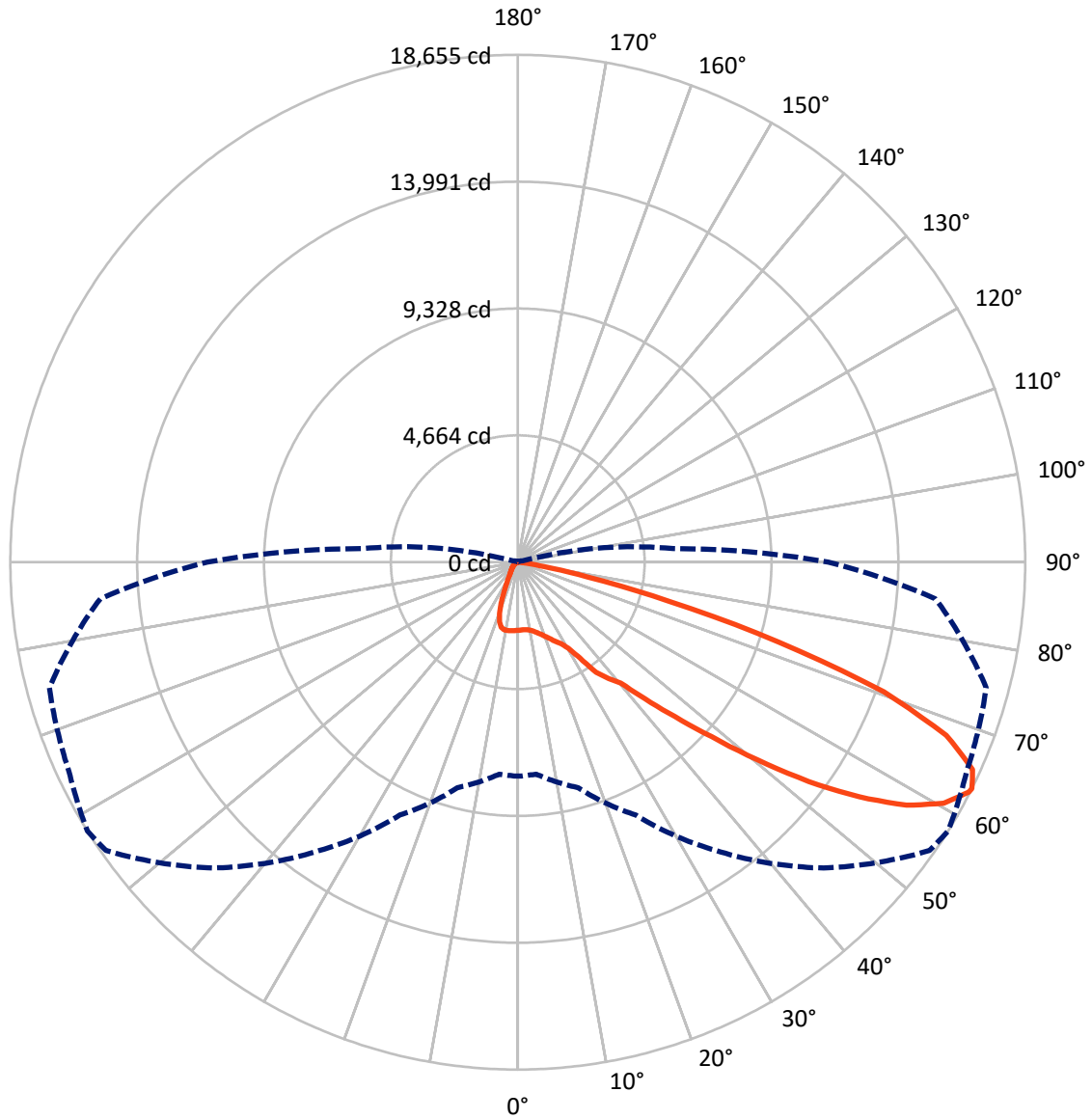
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2316.8	0.0	2316.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20058.2	0.0	20058.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	22375.0	0.0	22375.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	1.0
10°-20°	638.7	2.9
20°-30°	1108.5	5.0
30°-40°	2037.0	9.1
40°-50°	3834.5	17.1
50°-60°	6558.7	29.3
60°-70°	6279.9	28.1
70°-80°	1601.4	7.2
80°-90°	81.9	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°	22375.0	100.0
0°-180°	22375.0	100.0



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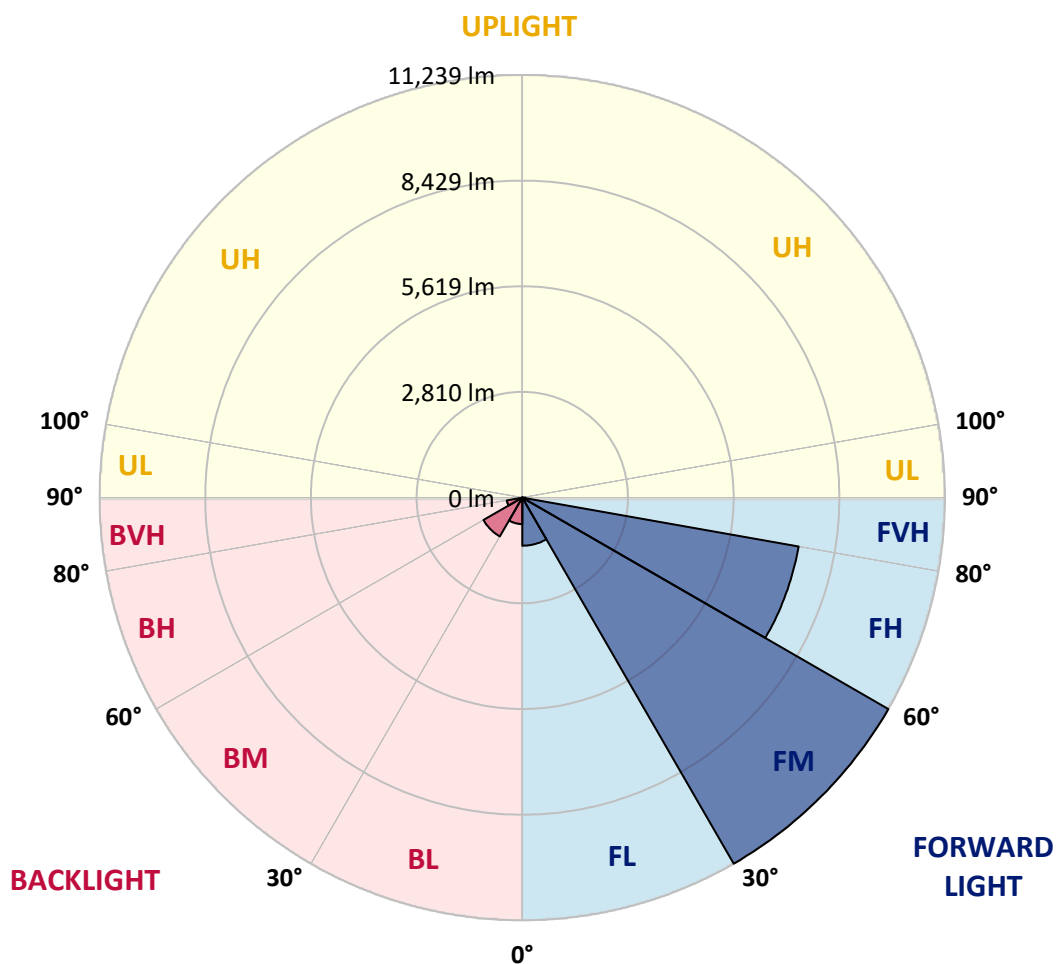
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.0	5.7			
FM (30°-60°)	11238.5	50.2			
FH (60°-80°)	7461.9	33.3			G3/7500
FVH (80°-90°)	78.7	0.4			G1/100
BL (0°-30°)	702.6	3.1	B2/1000		
BM (30°-60°)	1191.6	5.3	B2/2500		
BH (60°-80°)	419.4	1.9	B1/500		G1/500
BVH (80°-90°)	3.2	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°	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0
2.5°	2442.6	2451.1	2459.5	2462.9	2474.6	2486.4	2494.9	2493.2	2506.7	2513.4	2513.4
5°	2344.9	2344.9	2366.8	2387.0	2420.7	2454.4	2486.4	2493.2	2518.4	2542.0	2550.5
7.5°	2262.4	2267.4	2284.3	2321.3	2366.8	2425.8	2489.8	2505.0	2548.8	2601.0	2622.9
10°	2223.6	2227.0	2248.9	2287.7	2344.9	2425.8	2515.1	2543.7	2611.1	2693.6	2724.0
12.5°	2215.2	2220.3	2242.2	2286.0	2351.7	2449.4	2570.7	2601.0	2698.7	2804.8	2850.3
15°	2230.4	2233.8	2255.7	2302.8	2375.3	2491.5	2644.8	2686.9	2803.1	2926.1	2985.1
17.5°	2284.3	2280.9	2296.1	2334.8	2415.7	2543.7	2734.1	2784.6	2921.1	3089.5	3128.3
20°	2513.4	2491.5	2478.0	2444.3	2476.3	2617.8	2841.9	2916.0	3084.5	3256.3	3283.2
22.5°	3007.0	2958.1	2862.1	2730.7	2629.6	2718.9	2971.6	3057.5	3274.8	3443.3	3443.3
25°	3635.3	3573.0	3477.0	3190.6	2943.0	2885.7	3118.2	3226.0	3482.0	3652.2	3596.6
27.5°	4422.0	4373.2	4186.2	3852.6	3473.6	3177.1	3288.3	3387.7	3665.6	3871.2	3754.9
30°	5062.2	5038.6	4885.3	4587.1	4169.3	3736.4	3605.0	3670.7	3909.9	4147.4	4027.8
32.5°	5602.9	5602.9	5446.2	5168.3	4777.5	4393.4	4142.4	4189.5	4418.6	4693.2	4470.9
35°	6197.6	6177.3	6051.0	5786.5	5348.5	5009.9	4907.2	4971.2	5178.4	5382.2	4834.7
37.5°	6822.5	6815.8	6684.4	6428.4	6071.2	5645.0	5404.1	5421.0	5527.1	5651.8	5260.9
40°	7501.4	7511.5	7339.7	7181.4	6844.4	6408.1	5946.6	5840.4	5939.8	6291.9	6047.6
42.5°	8303.3	8279.7	8205.6	7990.0	7718.7	7457.6	6903.4	6864.7	6952.3	7329.6	7065.1
45°	9234.9	9268.5	9140.5	9020.9	8839.0	8621.7	8158.4	8091.0	8187.1	8773.3	8397.6
47.5°	10168.1	10136.1	10218.7	10196.8	10294.5	10132.7	9723.4	9585.3	9816.0	10371.9	9819.4
50°	10879.0	10914.4	11086.2	11337.2	11756.7	11847.6	11455.1	11408.0	11510.7	11867.9	11091.3
52.5°	11340.6	11458.5	11728.0	12373.2	13129.6	13717.5	13419.4	13394.1	13352.0	13448.0	12307.5
55°	11642.1	11761.7	12113.8	13063.9	14366.1	15321.2	15336.4	15228.6	14950.6	14881.6	13444.6
57.5°	11456.8	11480.4	11982.4	13252.6	15051.7	16465.1	16960.3	16852.5	16338.7	16077.6	14448.6
60°	10297.8	10346.7	11045.8	12538.3	14753.5	16839.0	18036.8	17987.9	17425.3	17130.5	15230.3
62.5°	8244.3	8385.8	9105.1	10769.5	13367.1	16209.0	18473.1	18611.2	18173.2	17767.2	15476.2
63°	7867.0	7821.5	8581.2	10254.0	12999.9	15897.4	18479.8	18655.0	18206.9	17827.9	15408.8
65°	5823.6	5960.0	6453.6	8086.0	10818.4	14446.9	18063.7	18373.7	18082.3	17560.0	14662.6
67.5°	3269.8	3263.0	3808.8	5291.3	7572.2	11332.2	16333.7	16989.0	16928.3	15757.5	12154.2
70°	1600.3	1625.6	1849.7	2742.5	4391.7	7818.1	13572.6	14280.2	14302.1	12376.6	8404.4
72.5°	724.4	736.2	896.2	1335.9	2257.3	4162.6	9352.8	10028.3	9903.6	7887.2	4641.0
75°	382.4	407.7	493.6	672.1	1088.2	1716.6	5087.4	5741.0	5479.9	3603.3	1708.2
77.5°	283.0	291.4	335.2	427.9	582.9	668.8	2195.0	2611.1	2446.0	1303.9	566.0
80°	207.2	213.9	249.3	303.2	367.2	340.3	827.1	948.4	850.7	443.0	173.5
82.5°	126.3	128.0	181.9	225.7	230.8	190.4	272.9	293.1	306.6	249.3	94.3
85°	45.5	57.3	123.0	163.4	136.5	96.0	114.6	126.3	138.1	158.4	55.6
87.5°	5.1	6.7	59.0	79.2	38.7	35.4	42.1	47.2	50.5	59.0	27.0
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°	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0
2.5°	2520.1	2526.9	2521.8	2513.4	2511.7	2506.7	2496.5	2496.5	2496.5	2499.9	2496.5
5°	2557.2	2562.2	2550.5	2533.6	2515.1	2491.5	2466.2	2451.1	2449.4	2446.0	2437.6
7.5°	2627.9	2634.7	2607.7	2567.3	2516.8	2459.5	2405.6	2355.0	2331.5	2312.9	2312.9
10°	2730.7	2737.4	2683.5	2611.1	2510.0	2393.8	2265.8	2149.5	2058.6	2016.4	2006.3
12.5°	2853.7	2857.0	2767.8	2641.4	2474.6	2250.6	1977.7	1723.3	1546.4	1465.6	1457.2
15°	2988.4	2964.9	2846.9	2653.2	2373.6	1955.8	1484.1	1172.5	988.8	934.9	955.2
17.5°	3124.9	3081.1	2907.6	2634.7	2146.2	1484.1	997.3	800.2	742.9	727.7	727.7
20°	3252.9	3192.3	2951.4	2553.8	1752.0	1022.5	739.5	692.4	682.3	672.1	673.8
22.5°	3380.9	3288.3	2990.1	2373.6	1305.5	731.1	662.0	646.9	633.4	619.9	618.2
25°	3505.6	3377.6	3005.3	2040.0	889.5	628.3	604.8	584.5	557.6	542.4	539.1
27.5°	3635.3	3485.4	2995.2	1618.9	648.6	562.6	539.1	510.4	478.4	451.5	451.5
30°	3884.6	3690.9	2959.8	1164.0	545.8	495.3	464.9	419.5	384.1	357.1	355.4
32.5°	4224.9	3958.8	2838.5	818.7	485.2	436.3	390.8	340.3	303.2	283.0	283.0
35°	4528.1	4228.3	2611.1	603.1	436.3	379.0	323.4	274.6	245.9	232.5	227.4
37.5°	4989.7	4622.5	2297.8	490.2	389.1	328.5	271.2	225.7	202.1	192.0	192.0
40°	5682.1	5104.3	1913.7	429.6	343.7	279.6	225.7	190.4	171.8	160.0	160.0
42.5°	6541.2	5693.9	1524.5	385.8	301.5	240.9	188.7	161.7	144.9	136.5	134.8
45°	7622.7	6315.5	1174.2	345.3	267.8	205.5	160.0	136.5	119.6	114.6	116.2
47.5°	8751.4	6863.0	909.7	310.0	232.5	173.5	136.5	117.9	106.1	99.4	99.4
50°	9715.0	7240.3	690.7	269.5	205.5	146.6	119.6	106.1	96.0	92.7	91.0
52.5°	10520.2	7349.8	529.0	234.2	180.2	126.3	106.1	96.0	87.6	82.5	82.5
55°	11205.8	7253.8	414.4	197.1	151.6	109.5	94.3	85.9	75.8	70.8	69.1
57.5°	11606.7	6945.5	316.7	163.4	123.0	91.0	82.5	72.4	60.6	52.2	52.2
60°	11808.9	6497.4	242.6	134.8	94.3	72.4	67.4	53.9	42.1	35.4	33.7
62.5°	11566.3	5902.8	183.6	106.1	70.8	53.9	45.5	38.7	27.0	20.2	20.2
63°	11416.4	5730.9	176.9	101.1	65.7	50.5	42.1	35.4	23.6	18.5	16.8
65°	10407.3	4981.3	144.9	80.9	52.2	35.4	28.6	25.3	16.8	8.4	6.7
67.5°	8264.5	3810.5	114.6	60.6	37.1	25.3	16.8	15.2	5.1	0.0	0.0
70°	5587.7	2461.2	89.3	43.8	25.3	15.2	8.4	6.7	1.7	0.0	0.0
72.5°	2914.3	1261.7	69.1	32.0	15.2	10.1	5.1	1.7	0.0	0.0	0.0
75°	1031.0	429.6	50.5	20.2	10.1	5.1	1.7	0.0	0.0	0.0	0.0
77.5°	311.6	160.0	32.0	15.2	6.7	3.4	0.0	0.0	0.0	0.0	0.0
80°	109.5	59.0	18.5	10.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	53.9	28.6	11.8	8.4	5.1	1.7	0.0	0.0	0.0	0.0	0.0
85°	30.3	18.5	10.1	8.4	5.1	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	21.9	13.5	10.1	8.4	6.7	3.4	1.7	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)