

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: P458975

Luminaire Tested: **GALN-SA4D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458975
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-SA4D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 20623 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

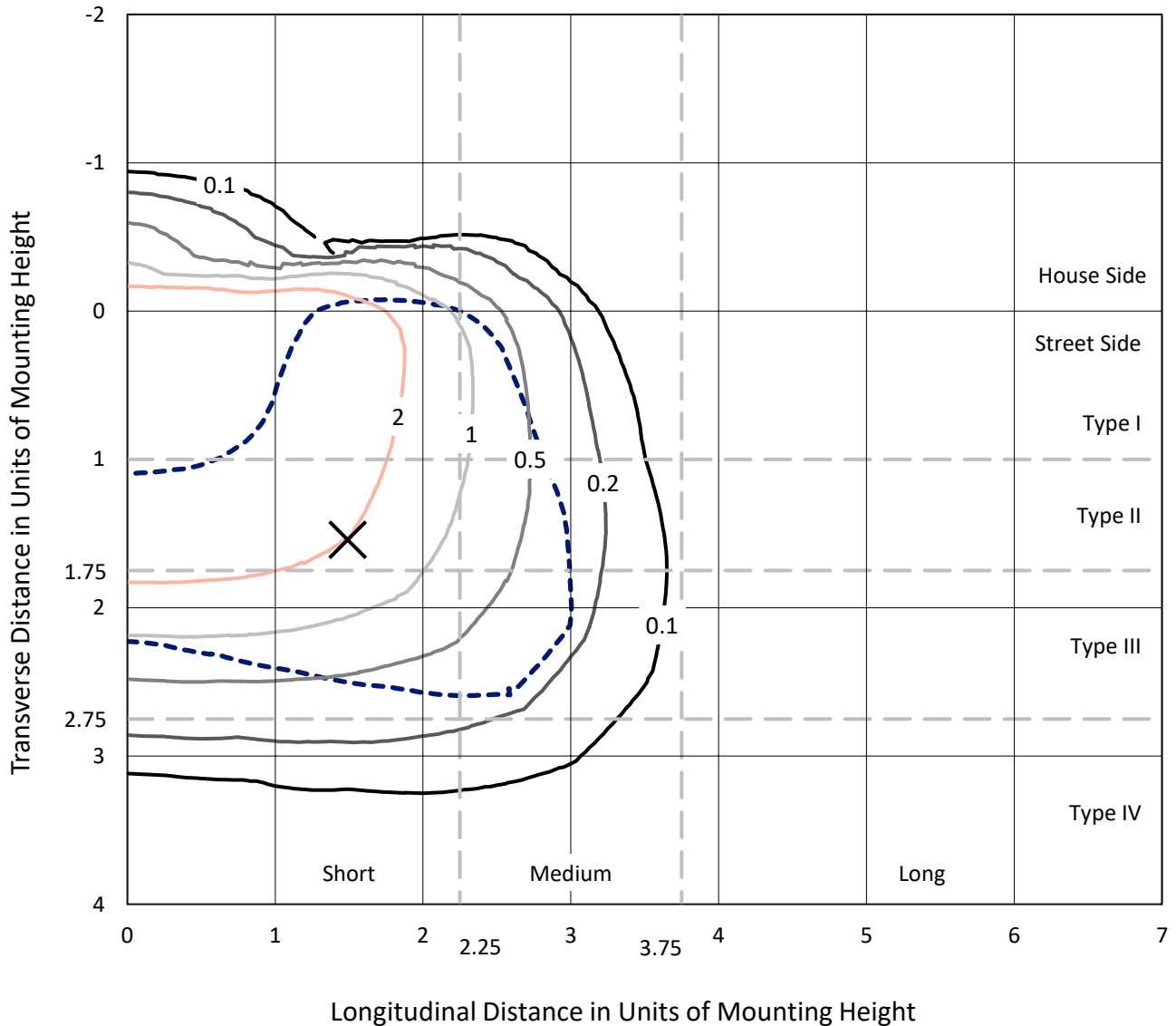
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

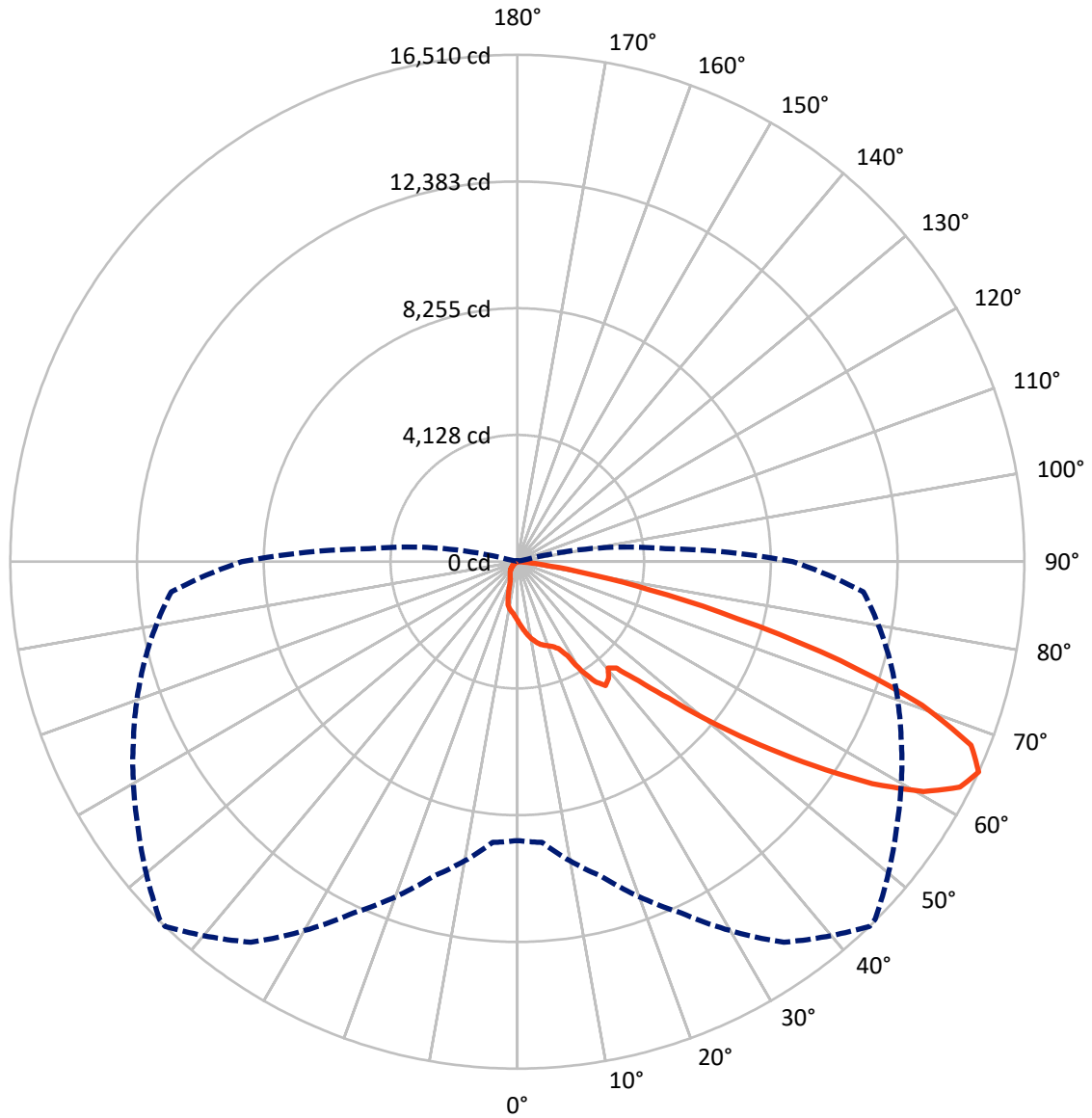
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1900.1	0.0	1900.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	18722.9	0.0	18722.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	20623.0	0.0	20623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	0.9
10°-20°	574.6	2.8
20°-30°	974.2	4.7
30°-40°	1619.8	7.9
40°-50°	2828.3	13.7
50°-60°	5525.4	26.8
60°-70°	6410.8	31.1
70°-80°	2334.5	11.3
80°-90°	164.5	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°	20623.0	100.0
0°-180°	20623.0	100.0



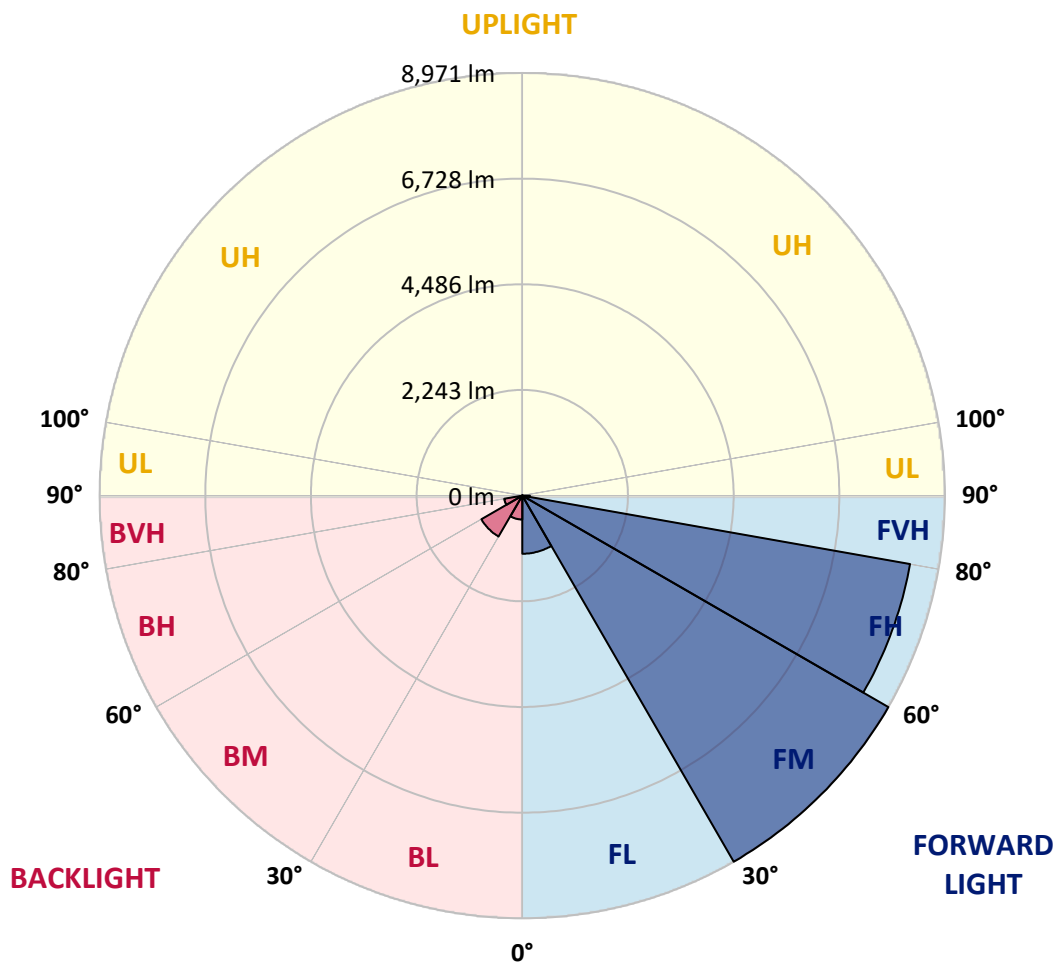
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.4	6.0			
FM (30°-60°)	8971.0	43.5			
FH (60°-80°)	8356.2	40.5			G4/12000
FVH (80°-90°)	162.3	0.8			G2/225
BL (0°-30°)	506.3	2.5	B2/1000		
BM (30°-60°)	1002.5	4.9	B2/2500		
BH (60°-80°)	389.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4
2.5°	2160.5	2151.0	2146.3	2121.1	2102.2	2078.5	2078.5	2048.6	2013.9	1976.1	1941.4
5°	2401.6	2385.8	2365.4	2343.3	2299.2	2236.1	2236.1	2173.1	2100.6	2036.0	1965.1
7.5°	2633.2	2619.1	2584.4	2541.8	2469.4	2403.2	2398.4	2307.0	2220.4	2122.7	2021.8
10°	2836.5	2825.5	2795.6	2713.6	2638.0	2551.3	2549.7	2447.3	2346.4	2226.7	2102.2
12.5°	2978.4	2979.9	2940.5	2861.7	2764.0	2682.1	2675.8	2574.9	2469.4	2340.1	2187.3
15°	3079.2	3079.2	3038.2	2950.0	2861.7	2789.3	2783.0	2694.7	2586.0	2445.7	2280.3
17.5°	3107.6	3117.0	3072.9	2994.1	2923.2	2860.2	2858.6	2784.5	2697.9	2562.3	2374.8
20°	3096.5	3106.0	3071.3	3009.9	2961.0	2924.8	2920.1	2890.1	2809.7	2682.1	2475.7
22.5°	3072.9	3082.4	3057.2	3020.9	2997.3	3008.3	3000.4	3025.6	2983.1	2828.7	2595.4
25°	3077.6	3087.1	3068.2	3047.7	3068.2	3135.9	3156.4	3265.2	3227.3	3014.6	2724.6
27.5°	3225.8	3244.7	3217.9	3227.3	3299.8	3457.4	3496.8	3684.3	3517.3	3251.0	2926.4
30°	3555.1	3542.5	3492.1	3537.8	3789.9	4124.0	4113.0	4083.0	3821.4	3523.6	3165.9
32.5°	3854.5	3843.5	3840.3	4037.3	4494.3	4656.6	4648.8	4358.8	4094.1	3835.6	3402.3
35°	3975.9	3933.3	3923.9	4401.4	5165.6	4951.3	4902.5	4472.3	4425.0	4176.0	3643.4
37.5°	4341.5	4311.5	4165.0	4461.2	4897.7	4826.8	4789.0	4667.7	4778.0	4477.0	3916.0
40°	5094.7	5011.2	4878.8	4588.9	4518.0	4547.9	4585.7	4918.2	5195.6	4888.3	4280.0
42.5°	6030.8	6011.9	5766.0	5225.5	4694.5	4735.4	4784.3	5441.4	5796.0	5507.6	4874.1
45°	7154.4	7181.2	6826.6	6188.4	5491.8	5526.5	5597.4	6213.6	6609.1	6470.4	5808.6
47.5°	8175.5	8155.0	8035.3	7371.8	6728.9	6651.7	6766.7	7204.8	7734.3	7756.3	6968.4
50°	9203.0	9311.7	9133.6	8873.6	8396.1	8233.8	8191.3	8405.6	9212.4	9106.8	8361.5
52.5°	10679.5	10736.3	10402.2	10336.0	10444.7	9918.4	9875.9	9927.9	10649.6	10287.2	9404.7
55°	11607.7	11574.6	11450.1	11967.0	12397.2	11740.1	11686.5	11476.9	11842.5	11120.8	10408.5
57.5°	11900.8	11948.1	12238.1	13172.5	14190.5	13632.7	13535.0	12939.3	12702.9	11897.7	11331.9
60°	11770.0	11856.7	12482.3	13872.2	15284.2	15200.7	15117.1	14116.5	13320.7	12546.9	11979.6
62.5°	10838.7	10960.0	11960.7	13747.7	15654.5	16176.1	16072.1	14850.8	13732.0	12862.1	12093.1
65°	9083.2	9173.0	10610.2	12617.8	15128.2	16510.2	16472.4	15080.9	13796.6	12573.7	11316.2
67.5°	6475.2	6780.9	8112.5	10633.8	13571.2	15939.7	16004.3	14805.1	13189.9	11327.2	9371.6
70°	4070.4	4278.4	5233.4	7612.9	10879.7	13984.1	14196.8	13542.9	11447.0	8829.5	6273.5
72.5°	1941.4	2095.9	2776.6	4819.0	7679.1	11002.6	11171.2	11117.6	8851.6	5562.8	3236.8
75°	865.1	923.4	1325.3	2459.9	4957.6	7395.5	7832.0	7904.5	5531.2	2721.5	1259.1
77.5°	441.2	442.8	620.9	1191.3	2475.7	4412.4	4499.1	4752.8	2998.8	1199.2	438.1
80°	234.8	250.6	329.4	562.6	1284.3	2173.1	2162.1	2376.4	1330.0	587.8	146.6
82.5°	105.6	116.6	186.0	294.7	627.2	824.2	888.8	972.3	570.5	375.1	64.6
85°	31.5	37.8	91.4	148.1	226.9	238.0	266.3	343.5	323.0	266.3	33.1
87.5°	4.7	4.7	37.8	41.0	33.1	42.5	44.1	48.9	104.0	97.7	17.3
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°	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4	1919.4
2.5°	1922.5	1911.5	1872.1	1839.0	1810.7	1793.3	1772.8	1760.2	1753.9	1749.2	1750.8
5°	1930.4	1903.6	1835.9	1782.3	1741.3	1697.2	1667.3	1649.9	1642.0	1629.4	1629.4
7.5°	1974.5	1932.0	1837.4	1755.5	1684.6	1624.7	1568.0	1547.5	1533.3	1530.2	1527.0
10°	2037.6	1984.0	1854.8	1741.3	1640.5	1558.5	1478.1	1407.2	1352.1	1319.0	1314.3
12.5°	2116.4	2039.2	1881.6	1731.9	1602.6	1457.7	1244.9	1101.5	1005.4	975.5	980.2
15°	2188.9	2105.3	1908.4	1724.0	1533.3	1208.7	967.6	803.7	754.8	750.1	751.7
17.5°	2275.5	2176.2	1939.9	1712.9	1342.6	923.4	718.6	674.5	683.9	699.7	698.1
20°	2365.4	2251.9	1977.7	1646.8	1071.6	695.0	635.1	639.8	654.0	668.2	671.3
22.5°	2461.5	2338.6	2021.8	1487.6	817.9	605.1	602.0	608.3	622.5	638.2	641.4
25°	2593.9	2447.3	2054.9	1279.6	619.3	559.4	565.7	576.8	589.4	606.7	609.9
27.5°	2764.0	2593.9	2072.2	1008.5	535.8	518.5	520.0	535.8	551.5	567.3	567.3
30°	2984.7	2768.8	2037.6	762.7	494.8	479.1	472.8	482.2	502.7	518.5	520.0
32.5°	3181.6	2934.2	1946.2	583.1	464.9	442.8	427.1	428.6	436.5	446.0	447.5
35°	3378.6	3095.0	1790.2	490.1	433.4	408.1	384.5	371.9	365.6	360.9	365.6
37.5°	3630.8	3295.1	1582.2	446.0	406.6	375.1	342.0	315.2	293.1	278.9	282.1
40°	3955.4	3572.5	1336.3	417.6	381.4	343.5	299.4	264.7	226.9	214.3	208.0
42.5°	4491.2	3993.2	1077.9	394.0	356.1	310.4	255.3	208.0	173.3	160.7	163.9
45°	5337.4	4524.3	830.5	368.7	330.9	274.2	214.3	163.9	135.5	129.2	132.4
47.5°	6459.4	5211.3	639.8	340.4	299.4	234.8	168.6	129.2	111.9	110.3	108.7
50°	7515.2	5851.1	534.2	308.9	261.6	195.4	138.7	108.7	97.7	96.1	96.1
52.5°	8470.2	6309.7	434.9	272.6	220.6	160.7	116.6	96.1	86.7	81.9	81.9
55°	9319.6	6609.1	353.0	228.5	173.3	127.6	100.9	86.7	75.6	69.3	67.8
57.5°	9961.0	6645.4	264.7	182.8	129.2	99.3	86.7	75.6	63.0	55.2	52.0
60°	10235.2	6331.8	195.4	138.7	96.1	78.8	69.3	61.5	47.3	39.4	37.8
62.5°	9959.4	5721.9	145.0	105.6	74.1	58.3	48.9	45.7	33.1	23.6	22.1
65°	8971.3	4841.0	115.0	80.4	55.2	42.5	31.5	29.9	20.5	11.0	9.5
67.5°	7187.5	3791.5	91.4	59.9	39.4	28.4	20.5	18.9	11.0	3.2	3.2
70°	4674.0	2423.7	74.1	44.1	25.2	18.9	12.6	9.5	6.3	1.6	0.0
72.5°	2311.8	1133.0	59.9	34.7	17.3	9.5	4.7	3.2	4.7	0.0	0.0
75°	896.7	403.4	44.1	23.6	9.5	4.7	3.2	0.0	1.6	0.0	0.0
77.5°	297.8	133.9	26.8	12.6	6.3	3.2	0.0	0.0	0.0	0.0	0.0
80°	110.3	52.0	14.2	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	44.1	20.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.1	12.6	6.3	4.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	9.5	6.3	4.7	3.2	1.6	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)