

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: P452359

Luminaire Tested: **GALN-SA3B-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13299 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

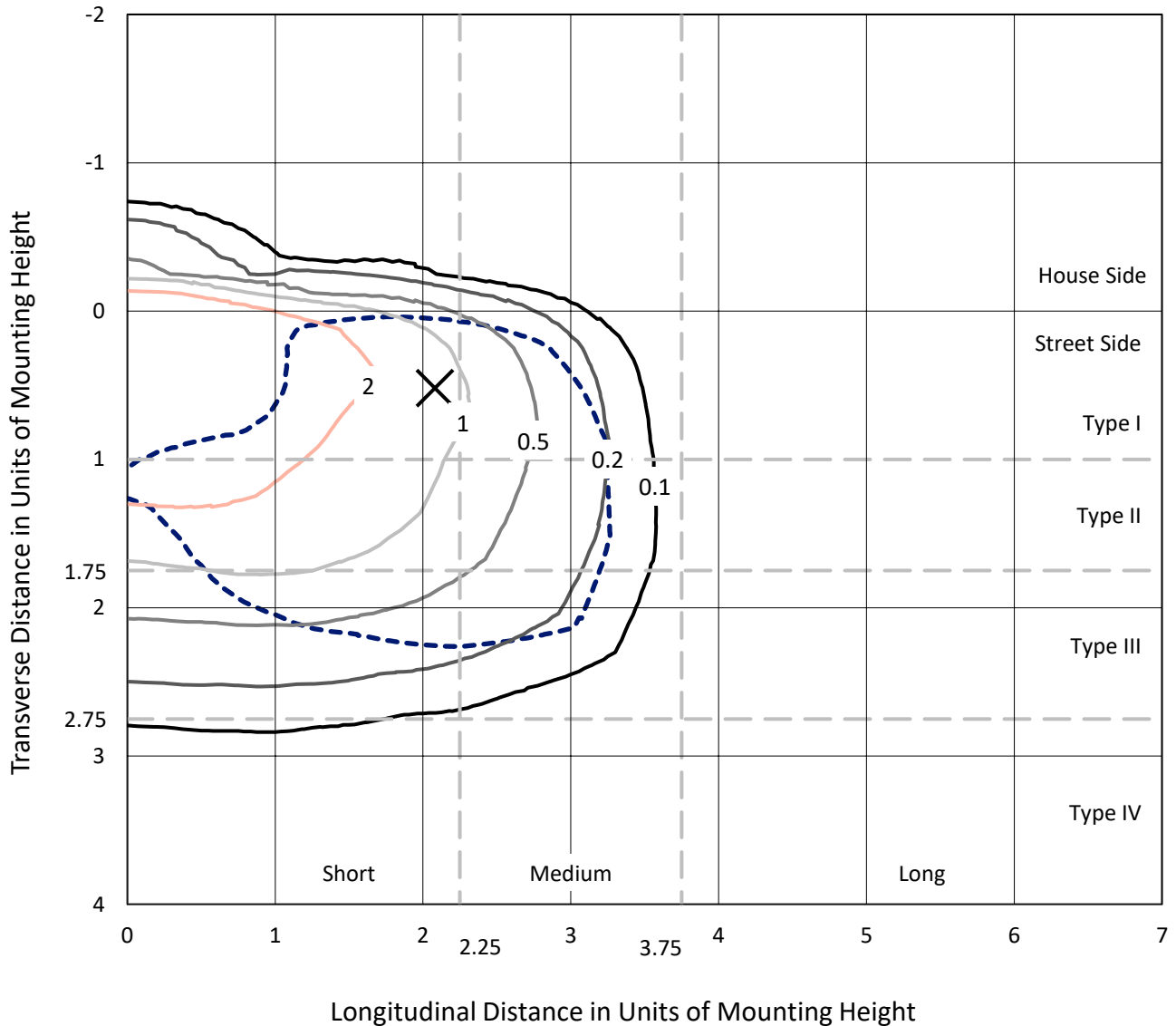
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

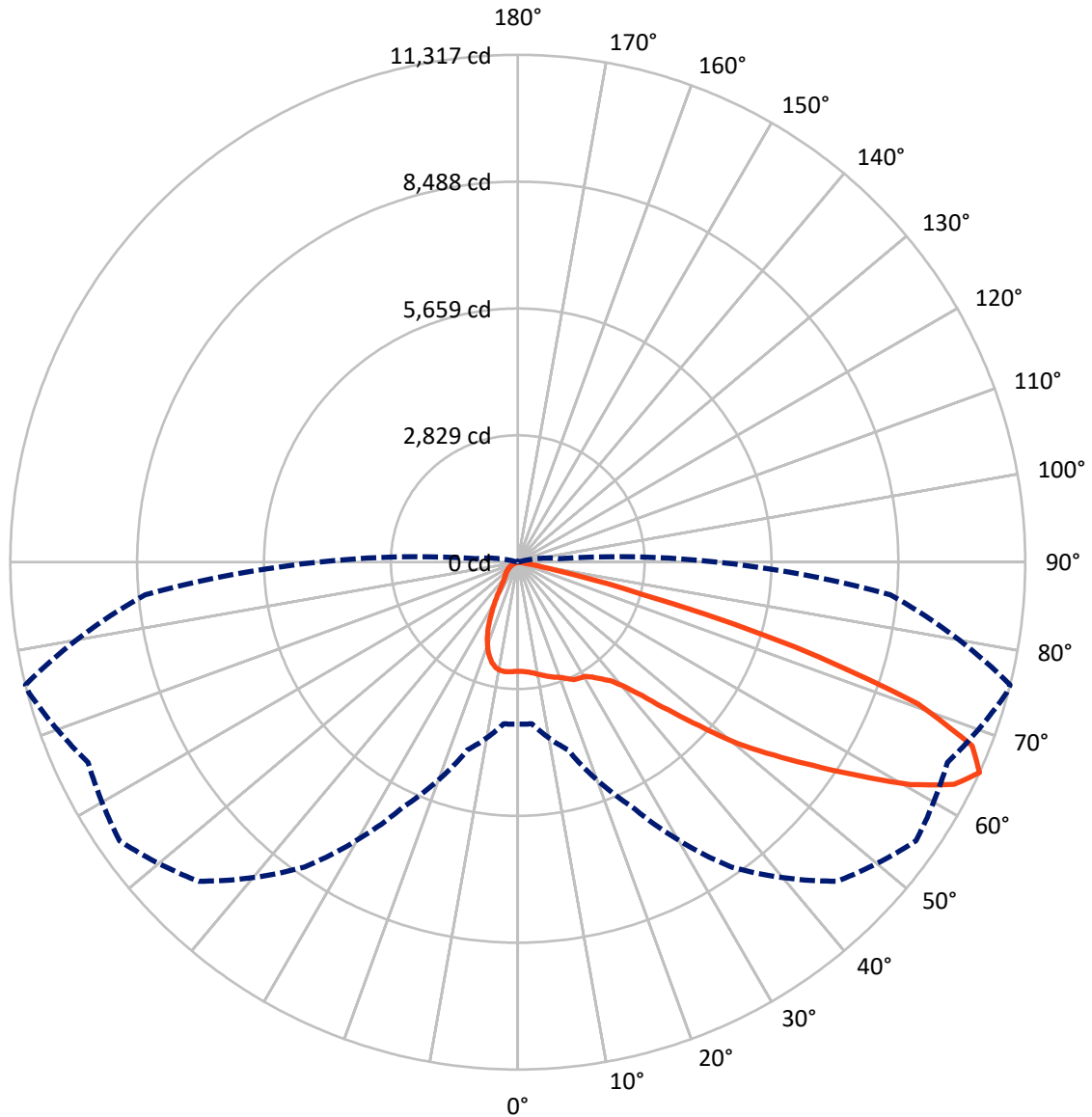
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.4	0.0	960.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12338.6	0.0	12338.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	13299.0	0.0	13299.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.5
10°-20°	446.2	3.4
20°-30°	719.0	5.4
30°-40°	1250.2	9.4
40°-50°	2066.0	15.5
50°-60°	3191.5	24.0
60°-70°	3897.2	29.3
70°-80°	1479.1	11.1
80°-90°	49.4	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°	13299.0	100.0
0°-180°	13299.0	100.0



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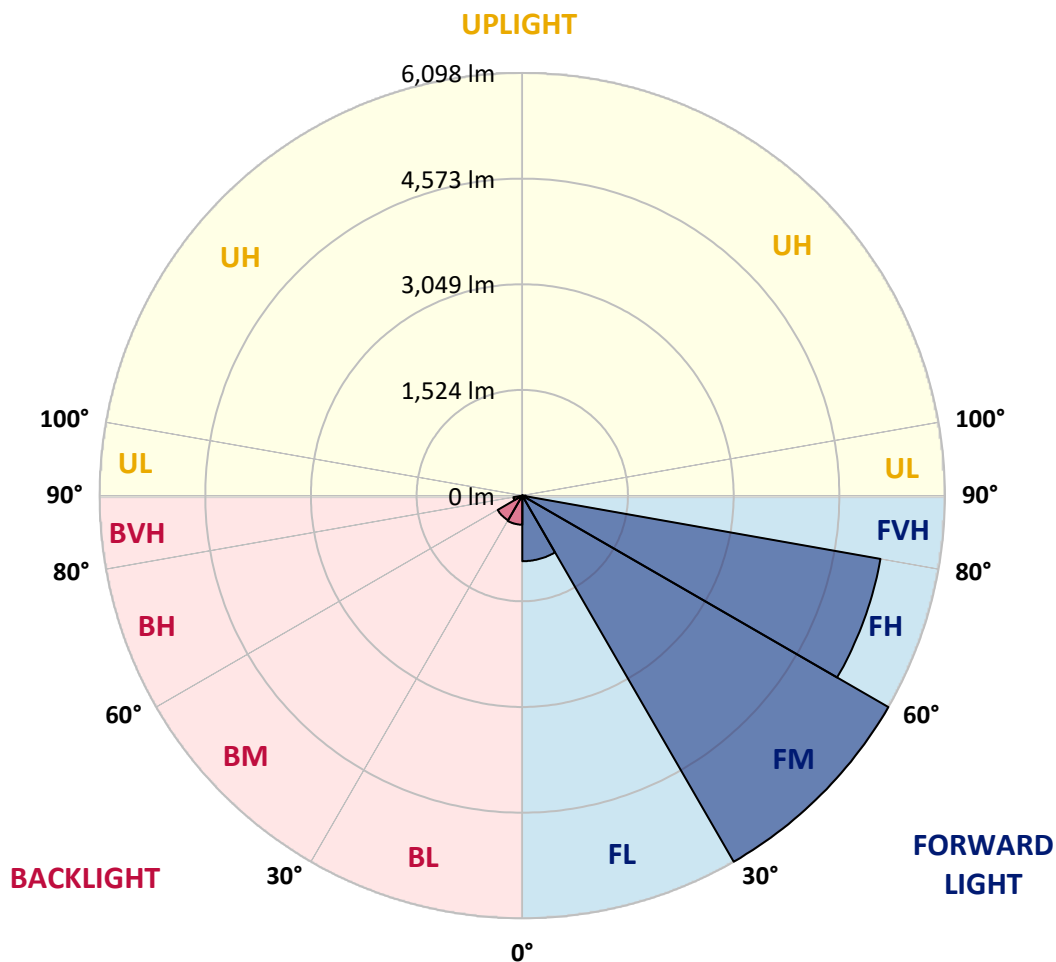
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.1	7.1			
FM (30°-60°)	6097.8	45.9			
FH (60°-80°)	5246.0	39.4			G3/7500
FVH (80°-90°)	48.7	0.4			G1/100
BL (0°-30°)	419.6	3.2	B1/500		
BM (30°-60°)	409.8	3.1	B1/1000		
BH (60°-80°)	130.3	1.0	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2324.8	2325.8	2331.4	2345.5	2367.1	2384.9	2399.9	2424.4	2441.3	2443.1	2448.8
5°	2164.3	2153.0	2164.3	2200.9	2233.8	2283.5	2344.6	2405.6	2460.0	2463.8	2490.1
7.5°	1984.0	1993.4	2011.2	2048.8	2110.8	2186.8	2275.1	2384.0	2487.3	2496.7	2548.3
10°	1800.9	1821.6	1850.7	1907.9	1994.3	2092.9	2213.1	2369.0	2530.5	2543.6	2632.8
12.5°	1631.9	1641.3	1677.0	1754.0	1861.0	2000.0	2166.2	2360.5	2578.3	2594.3	2722.9
15°	1502.3	1514.5	1545.5	1615.0	1734.2	1912.6	2127.7	2357.7	2625.3	2647.8	2813.1
17.5°	1477.9	1485.4	1498.6	1545.5	1649.7	1843.2	2092.9	2356.8	2670.4	2697.6	2896.7
20°	1578.4	1571.8	1558.7	1554.0	1611.2	1789.6	2067.6	2364.3	2713.6	2744.5	2984.9
22.5°	1830.0	1838.5	1761.5	1670.4	1651.6	1781.2	2063.8	2399.9	2782.1	2818.7	3083.5
25°	2364.3	2299.5	2179.3	1961.5	1797.1	1832.8	2106.1	2484.5	2861.9	2902.3	3172.7
27.5°	2954.9	2935.1	2748.3	2389.6	2083.5	1941.7	2181.2	2549.2	2888.2	2929.5	3223.4
30°	3535.1	3558.6	3344.5	2948.3	2499.5	2143.6	2251.6	2573.7	2911.7	2954.9	3288.2
32.5°	4073.2	4101.3	3913.5	3521.1	2989.6	2492.9	2372.7	2668.5	3010.3	3054.4	3396.2
35°	4496.6	4500.4	4358.6	4045.9	3524.8	2917.3	2634.7	2834.7	3143.6	3195.2	3510.7
37.5°	4885.3	4879.7	4713.5	4444.0	3970.8	3338.9	2964.3	3026.2	3295.7	3349.2	3676.0
40°	5173.6	5177.4	5123.8	4870.3	4386.8	3728.6	3225.3	3205.6	3551.1	3634.7	3916.3
42.5°	5366.1	5400.8	5427.1	5298.5	4909.8	4208.4	3626.2	3589.6	3994.3	4063.8	4256.2
45°	5521.9	5583.9	5715.4	5708.8	5412.1	4797.1	4176.4	4101.3	4622.4	4696.6	4689.1
47.5°	5635.6	5698.5	5916.3	6047.8	5884.4	5368.0	4868.4	4803.7	5372.7	5453.4	5167.0
50°	5693.8	5768.9	6046.8	6301.3	6253.4	5918.2	5657.2	5660.9	6278.7	6356.7	5721.0
52.5°	5557.6	5655.3	6116.3	6574.5	6667.5	6444.9	6396.1	6520.0	7085.3	7152.0	6221.5
55°	5122.9	5245.9	6021.5	6807.4	7147.3	7066.5	7235.5	7424.3	7967.0	8010.2	6735.1
57.5°	4847.8	4978.3	5741.7	7005.5	7723.8	7847.7	8115.3	8253.3	8876.8	8986.7	7324.7
60°	4615.9	4718.2	5511.6	7047.7	8309.7	8803.6	9063.7	9206.4	9999.8	10071.1	7973.5
62.5°	4230.0	4347.3	5122.9	6752.9	8604.5	9568.8	10107.8	10043.9	10868.3	10918.1	8371.7
65°	3609.3	3619.6	4334.2	6012.1	8300.3	10065.5	10841.1	10573.5	11283.3	11317.1	8340.7
67.5°	2693.8	2793.4	3334.2	4725.7	7011.1	9641.1	11078.6	10587.6	11021.4	10927.5	7678.7
70°	1735.2	1811.2	2260.0	3276.9	5055.3	8045.8	10290.9	9861.8	9673.0	9464.6	6285.3
72.5°	800.9	898.6	1342.7	1872.3	2998.1	5731.3	8353.8	8012.0	6962.3	6447.7	3995.2
75°	349.3	373.7	662.9	987.8	1405.6	3030.9	5507.9	4973.6	3144.5	2872.2	1599.0
77.5°	213.1	229.1	347.4	529.6	552.1	1154.9	2967.1	2169.9	971.8	857.3	433.8
80°	144.6	162.4	252.6	277.0	188.7	322.1	1113.6	579.3	196.2	187.8	93.0
82.5°	70.4	89.2	186.9	154.9	81.7	103.3	323.9	123.9	57.3	53.5	32.9
85°	10.3	17.8	105.2	101.4	36.6	24.4	57.3	31.0	19.7	18.8	15.0
87.5°	0.0	0.0	35.7	16.0	3.8	3.8	6.6	6.6	7.5	6.6	7.5
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°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2451.6	2456.3	2438.4	2413.1	2385.9	2358.6	2320.1	2285.4	2264.7	2276.9	2246.9
5°	2495.7	2492.0	2445.0	2368.0	2265.7	2142.7	2020.6	1916.4	1882.6	1831.9	1826.3
7.5°	2556.8	2546.4	2446.9	2270.4	2039.4	1808.4	1583.1	1433.8	1348.3	1276.0	1277.9
10°	2642.2	2612.2	2425.3	2098.5	1718.3	1369.9	1082.6	885.4	800.0	772.8	751.2
12.5°	2730.5	2672.2	2365.2	1866.6	1338.0	936.1	658.2	538.0	485.4	468.5	466.7
15°	2809.3	2717.3	2260.0	1587.8	972.7	598.1	448.8	409.4	402.8	403.7	402.8
17.5°	2887.3	2753.0	2114.5	1292.0	661.0	429.1	385.9	376.5	379.3	383.1	382.2
20°	2952.0	2760.5	1928.6	985.9	467.6	376.5	362.4	360.6	363.4	366.2	366.2
22.5°	3022.5	2766.1	1707.9	682.6	382.2	350.2	342.7	342.7	346.5	350.2	351.2
25°	3075.1	2735.2	1444.1	490.1	337.1	324.9	321.1	322.1	325.8	327.7	326.8
27.5°	3083.5	2647.8	1164.3	375.6	306.1	293.9	290.1	293.9	289.2	292.0	290.1
30°	3091.0	2537.0	880.7	316.4	277.9	259.1	253.5	247.9	244.1	239.4	238.5
32.5°	3114.5	2406.5	643.2	284.5	251.6	231.0	217.8	201.9	189.7	185.9	185.0
35°	3124.8	2249.7	472.3	259.1	228.2	205.6	182.2	159.6	141.8	135.2	139.9
37.5°	3164.3	2097.6	366.2	240.4	207.5	179.3	149.3	121.1	104.2	100.5	102.3
40°	3245.0	1932.4	307.0	224.4	189.7	154.9	118.3	91.1	79.8	76.1	75.1
42.5°	3374.6	1768.0	273.2	209.4	171.8	130.5	93.0	71.4	62.0	59.2	59.2
45°	3532.3	1610.3	249.8	193.4	153.0	105.2	73.2	57.3	51.6	49.8	49.8
47.5°	3739.8	1472.3	230.0	177.5	132.4	83.6	59.2	49.8	46.0	46.9	47.9
50°	3950.1	1369.9	208.4	159.6	108.9	68.5	50.7	44.1	43.2	44.1	44.1
52.5°	4108.8	1309.8	179.3	135.2	85.4	57.3	45.1	41.3	40.4	38.5	38.5
55°	4322.9	1296.7	142.7	109.9	67.6	47.9	40.4	37.6	34.7	32.9	31.9
57.5°	4598.0	1311.7	109.9	85.4	52.6	39.4	35.7	31.0	27.2	23.5	23.5
60°	4768.9	1277.9	85.4	65.7	38.5	31.9	27.2	22.5	17.8	15.0	14.1
62.5°	4714.5	1135.2	67.6	48.8	27.2	23.5	17.8	15.0	10.3	7.5	6.6
65°	4433.7	916.4	54.5	33.8	19.7	14.1	9.4	9.4	4.7	0.9	0.0
67.5°	3880.7	678.9	43.2	22.5	11.3	6.6	4.7	2.8	0.0	0.0	0.0
70°	3158.6	490.1	33.8	14.1	6.6	4.7	1.9	0.9	0.0	0.0	0.0
72.5°	2005.6	280.7	26.3	8.5	4.7	1.9	0.0	0.0	0.0	0.0	0.0
75°	775.6	109.9	17.8	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	219.7	51.6	10.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.3	22.5	5.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.2	9.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	3.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	0.9	0.0	0.0	0.0	0.0	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)