

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: P453281

Luminaire Tested: **GALN-SA4B-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16828 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

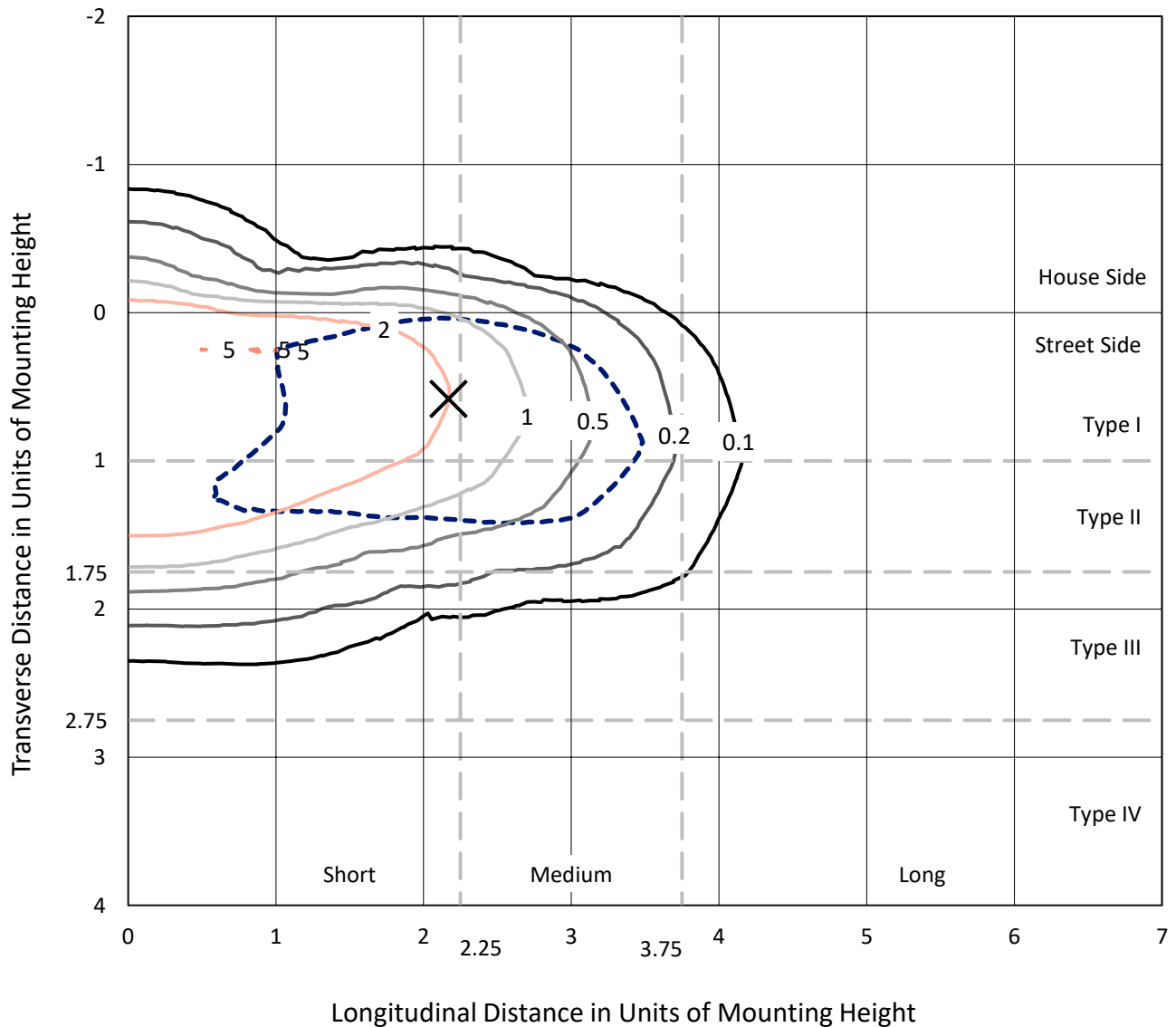
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

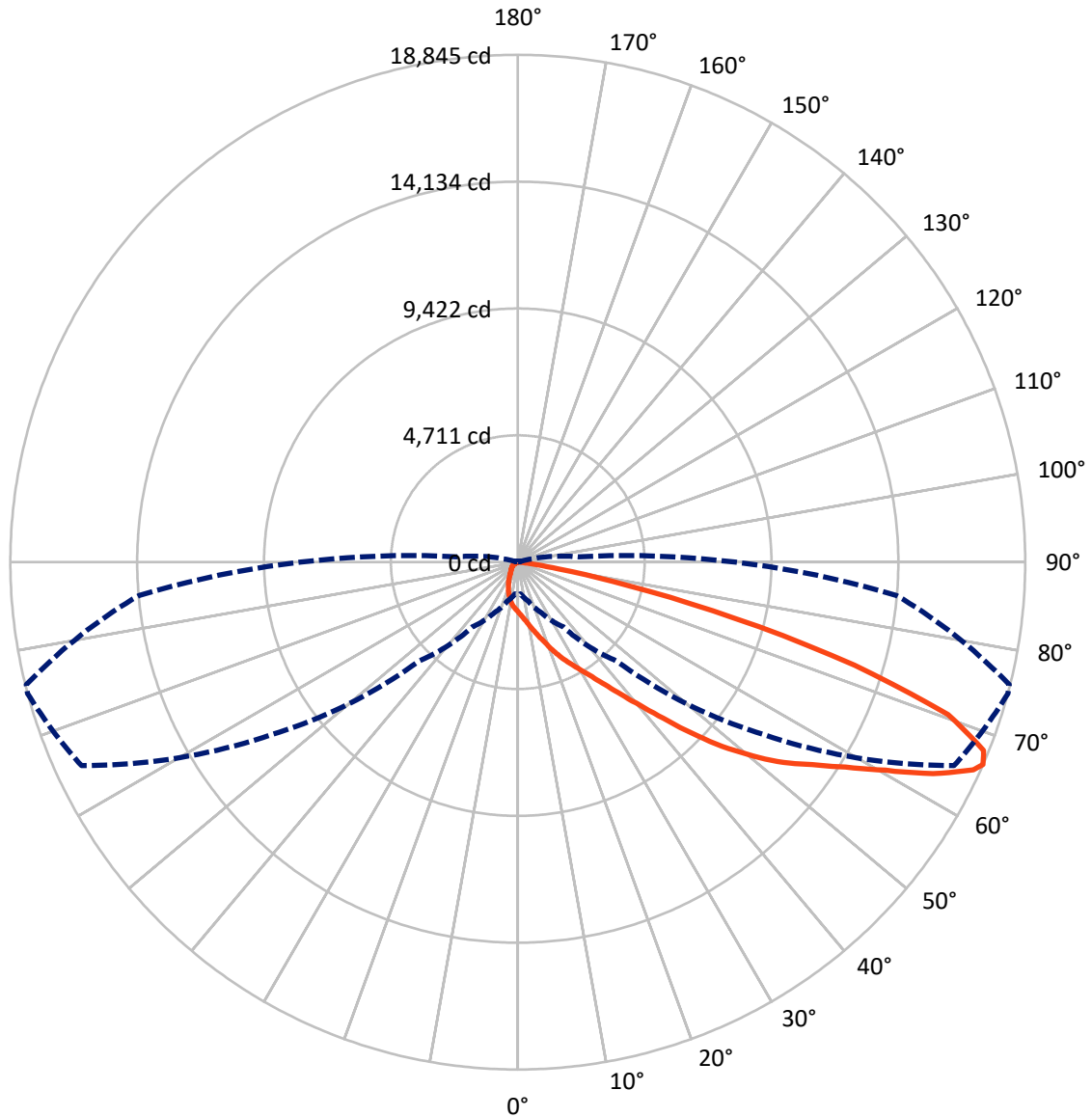
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.9	0.0	1038.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15789.1	0.0	15789.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	16828.0	0.0	16828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	1.1
10°-20°	522.4	3.1
20°-30°	902.1	5.4
30°-40°	1627.1	9.7
40°-50°	2939.4	17.5
50°-60°	4582.6	27.2
60°-70°	4353.3	25.9
70°-80°	1631.5	9.7
80°-90°	92.0	0.5
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°	16828.0	100.0
0°-180°	16828.0	100.0

Coefficient of Utilization



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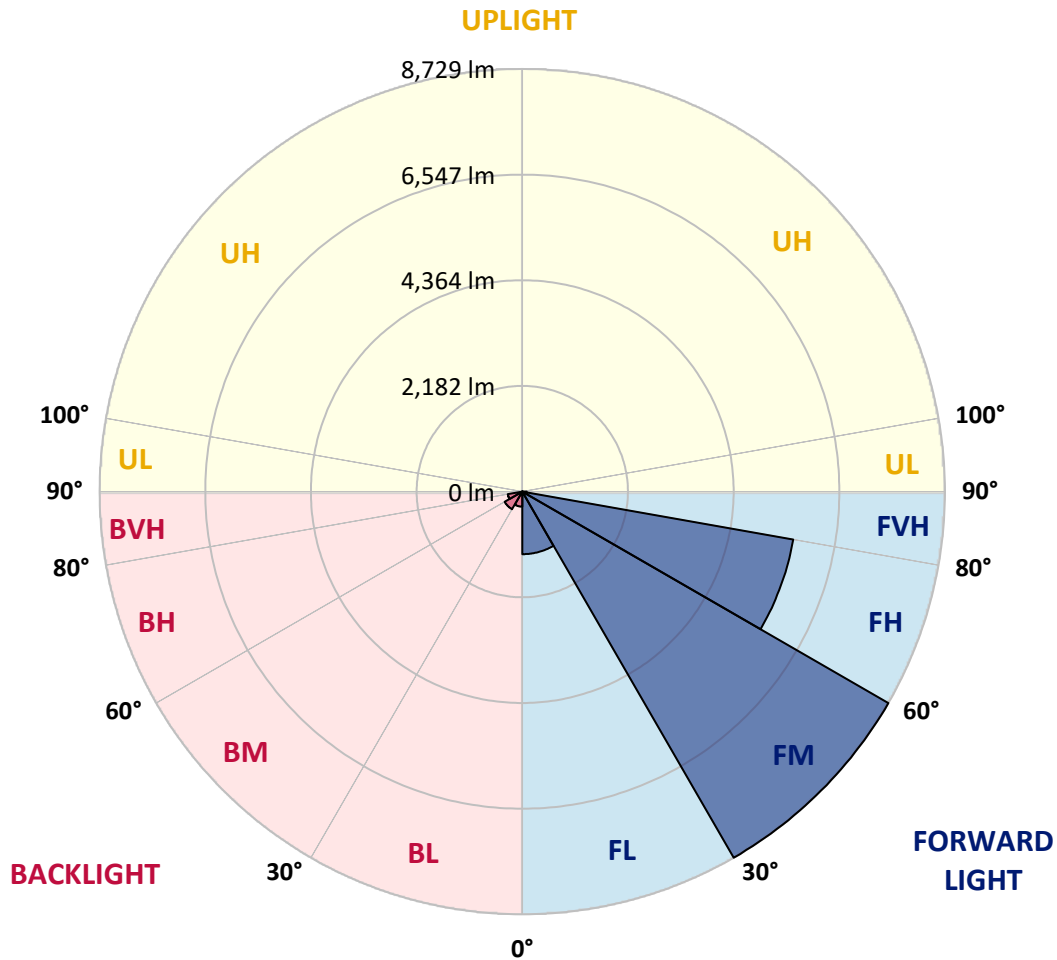
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1291.7	7.7			
FM	(30°-60°)	8728.7	51.9			
FH	(60°-80°)	5681.4	33.8			G3/7500
FVH	(80°-90°)	87.3	0.5			G1/100
BL	(0°-30°)	310.3	1.8	B1/500		
BM	(30°-60°)	420.5	2.5	B1/1000		
BH	(60°-80°)	303.4	1.8	B1/500		G1/500
BVH	(80°-90°)	4.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3
2.5°	2198.7	2171.3	2180.0	2167.6	2138.9	2096.6	2059.3	2005.8	1952.3	1943.6	1883.9
5°	2488.6	2481.1	2471.2	2435.1	2415.2	2350.5	2273.3	2181.2	2070.5	2050.6	1942.3
7.5°	2686.4	2682.7	2687.7	2669.0	2651.6	2593.1	2511.0	2385.3	2213.6	2202.4	2022.0
10°	2751.1	2761.1	2779.7	2809.6	2837.0	2818.3	2756.1	2599.3	2399.0	2366.6	2112.8
12.5°	2713.8	2725.0	2769.8	2849.4	2937.8	2988.8	2963.9	2849.4	2595.6	2569.5	2214.8
15°	2618.0	2631.7	2695.1	2818.3	2976.3	3120.7	3182.9	3100.8	2824.5	2782.2	2338.0
17.5°	2476.1	2496.1	2586.9	2749.9	2966.4	3215.3	3390.7	3363.3	3068.4	3028.6	2472.4
20°	2369.1	2384.1	2461.2	2647.9	2924.1	3267.5	3588.5	3665.7	3369.5	3301.1	2630.4
22.5°	2440.1	2445.0	2471.2	2583.2	2848.2	3281.2	3762.7	3980.5	3689.3	3628.4	2794.7
25°	2787.2	2737.4	2711.3	2686.4	2832.0	3268.8	3920.8	4309.0	4007.9	3943.2	2957.7
27.5°	3334.7	3312.3	3180.4	3003.7	2970.1	3284.9	4025.3	4620.1	4307.7	4238.1	3117.0
30°	3930.7	3892.1	3811.3	3552.5	3292.4	3399.4	4101.2	4922.4	4662.4	4570.3	3262.5
32.5°	4478.2	4503.1	4382.4	4116.1	3815.0	3643.3	4199.5	5252.2	5069.2	4954.8	3431.8
35°	5116.5	5166.3	4980.9	4725.8	4373.7	4083.8	4391.1	5624.2	5585.6	5441.3	3693.1
37.5°	5764.8	5794.7	5681.4	5323.1	5005.8	4643.7	4752.0	6083.3	6221.5	6098.3	4005.4
40°	6309.8	6350.9	6267.5	5949.0	5610.5	5292.0	5275.8	6583.5	6978.0	6851.1	4470.7
42.5°	6726.6	6757.8	6760.2	6535.0	6230.2	6085.8	5944.0	7221.9	7926.1	7779.3	5010.8
45°	7253.0	7297.8	7271.6	7118.6	6890.9	6864.8	6791.3	7993.3	9060.9	8875.5	5711.3
47.5°	8066.7	8096.6	8031.9	7851.5	7620.0	7661.1	7617.6	8858.1	10218.1	10058.9	6436.7
50°	8631.7	8681.4	8773.5	8845.7	8677.7	8525.9	8396.5	9665.7	11316.8	11173.7	7178.3
52.5°	8625.4	8707.6	8998.7	9362.1	9729.1	9683.1	9311.0	10557.8	12365.8	12189.1	7875.1
55°	8044.3	8203.6	8631.7	9276.2	10292.8	10799.2	10630.0	11590.6	13271.6	13152.2	8682.7
57.5°	6844.9	6941.9	7536.7	8437.5	9978.0	11324.3	12158.0	12990.4	14357.9	14301.9	9936.9
60°	4603.9	4647.4	5412.7	6526.3	8494.8	10800.5	13277.8	14683.9	15695.5	15668.1	11401.4
62.5°	2637.9	2656.6	3211.5	4151.0	6044.8	9153.0	13372.4	16773.1	17299.4	17314.3	13096.2
65°	1419.7	1429.7	1877.6	2436.3	3678.1	6523.8	12024.8	17917.8	18595.9	18624.6	14146.4
66°	1225.6	1178.3	1494.4	2076.7	2926.6	5192.4	11172.5	17876.7	18844.8	18813.7	14109.0
67.5°	932.0	974.3	1193.3	1596.4	2168.8	3691.8	9223.9	17081.6	18655.7	18558.6	13535.4
70°	666.9	684.4	849.9	1138.5	1477.0	2025.7	5894.2	14187.4	16956.0	16825.3	11792.2
72.5°	430.5	449.2	602.2	823.7	1067.6	1106.2	3299.9	10250.5	13072.5	13053.9	8880.5
75°	307.3	324.8	398.2	589.8	802.6	684.4	1589.0	6908.3	8310.6	8254.6	5493.6
77.5°	222.7	231.4	266.3	385.7	573.6	490.3	736.6	3689.3	4137.3	4332.6	2427.6
80°	128.2	135.6	185.4	235.2	388.2	334.7	352.1	1480.7	1526.7	1453.3	759.0
82.5°	63.5	72.2	110.7	160.5	242.6	225.2	161.8	445.5	470.3	457.9	191.6
85°	14.9	18.7	62.2	105.8	118.2	100.8	78.4	130.7	161.8	158.0	73.4
87.5°	1.2	2.5	22.4	18.7	19.9	33.6	27.4	33.6	52.3	48.5	26.1
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°	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3	1840.3
2.5°	1856.5	1832.8	1764.4	1697.2	1641.2	1582.7	1529.2	1498.1	1485.7	1472.0	1478.2
5°	1882.6	1825.4	1687.3	1567.8	1450.8	1351.3	1271.7	1220.7	1195.8	1192.0	1185.8
7.5°	1917.5	1819.2	1605.1	1418.5	1265.4	1154.7	1063.9	990.5	968.1	948.2	932.0
10°	1959.8	1808.0	1503.1	1261.7	1098.7	959.3	839.9	752.8	708.0	695.6	704.3
12.5°	2004.6	1786.8	1396.1	1117.4	929.5	751.6	640.8	597.3	584.8	579.8	581.1
15°	2049.3	1760.7	1284.1	978.0	740.4	599.7	548.7	537.5	532.6	530.1	527.6
17.5°	2090.4	1718.4	1158.4	842.4	599.7	512.6	494.0	484.0	474.1	470.3	464.1
20°	2138.9	1669.8	1045.2	690.6	507.7	464.1	441.7	423.1	408.1	398.2	396.9
22.5°	2185.0	1607.6	927.0	572.4	462.9	416.8	380.8	360.8	343.4	331.0	334.7
25°	2209.9	1531.7	821.2	499.0	421.8	369.6	329.7	304.9	286.2	280.0	278.7
27.5°	2209.9	1438.4	718.0	456.7	384.5	327.2	286.2	262.5	250.1	241.4	242.6
30°	2192.4	1335.1	622.1	424.3	352.1	289.9	251.3	230.2	220.2	214.0	212.8
32.5°	2178.8	1236.8	540.0	393.2	318.5	257.6	224.0	207.8	197.8	191.6	191.6
35°	2199.9	1152.2	476.6	362.1	287.4	232.7	202.8	187.9	177.9	173.0	171.7
37.5°	2255.9	1075.1	428.0	328.5	258.8	211.5	187.9	170.5	160.5	154.3	151.8
40°	2394.0	1031.5	392.0	297.4	231.4	194.1	170.5	154.3	141.8	135.6	134.4
42.5°	2615.5	1032.8	357.1	268.8	210.3	179.2	155.5	136.9	123.2	117.0	115.7
45°	2949.0	1080.0	329.7	241.4	191.6	163.0	139.4	119.5	107.0	100.8	100.8
47.5°	3348.4	1172.1	306.1	217.8	174.2	148.1	123.2	103.3	90.8	85.9	85.9
50°	3781.4	1291.6	282.5	192.9	159.3	131.9	105.8	89.6	79.6	75.9	75.9
52.5°	4223.1	1435.9	258.8	173.0	143.1	114.5	90.8	79.6	70.9	68.4	67.2
55°	4803.0	1620.1	233.9	151.8	125.7	98.3	80.9	69.7	59.7	56.0	54.7
57.5°	5695.1	1897.5	206.6	133.1	103.3	82.1	69.7	58.5	47.3	41.1	39.8
60°	6771.4	2236.0	177.9	117.0	83.4	67.2	56.0	44.8	34.8	27.4	26.1
62.5°	7779.3	2451.3	150.6	98.3	65.9	51.0	39.8	33.6	24.9	17.4	16.2
65°	8224.8	2379.1	124.4	79.6	52.3	36.1	26.1	23.6	14.9	7.5	6.2
66°	8076.7	2272.1	114.5	72.2	47.3	31.1	22.4	19.9	11.2	3.7	3.7
67.5°	7640.0	2019.5	99.5	62.2	41.1	24.9	17.4	14.9	6.2	1.2	0.0
70°	6546.2	1633.8	78.4	46.0	29.9	17.4	10.0	7.5	3.7	0.0	0.0
72.5°	5028.2	1216.9	62.2	34.8	21.2	10.0	5.0	2.5	3.7	0.0	0.0
75°	3080.9	695.6	48.5	26.1	13.7	6.2	3.7	0.0	3.7	1.2	0.0
77.5°	1367.5	312.3	32.4	17.4	10.0	5.0	2.5	0.0	2.5	1.2	0.0
80°	345.9	102.0	18.7	12.4	7.5	3.7	1.2	0.0	2.5	2.5	1.2
82.5°	94.6	37.3	13.7	10.0	6.2	3.7	1.2	0.0	2.5	2.5	2.5
85°	37.3	17.4	12.4	10.0	7.5	3.7	1.2	0.0	2.5	2.5	2.5
87.5°	17.4	12.4	12.4	11.2	8.7	3.7	1.2	0.0	2.5	1.2	2.5
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)