

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: P651305

Luminaire Tested: **GALN-SA3D-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651305
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-SA3D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 14519 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

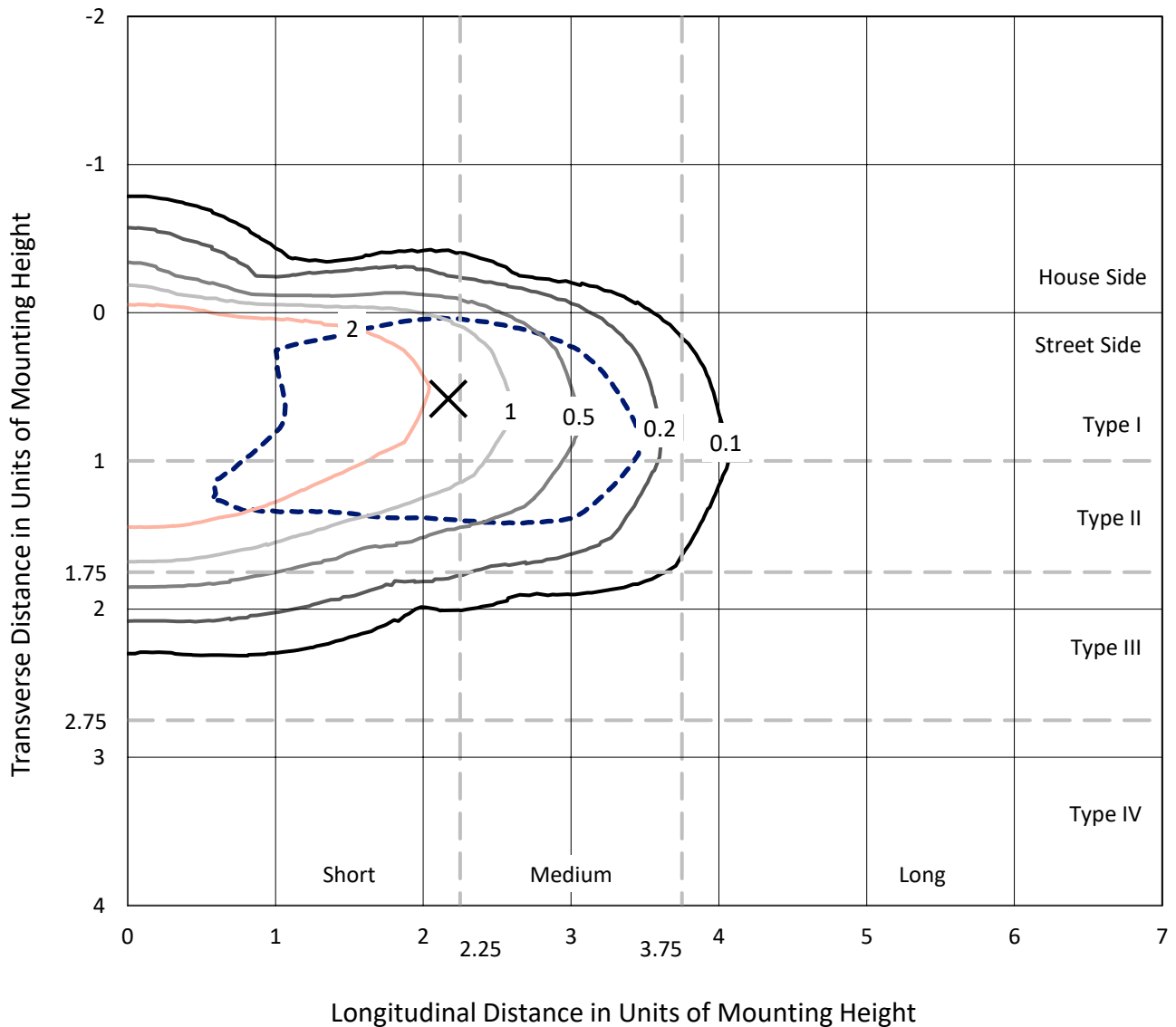
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA3D-840-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

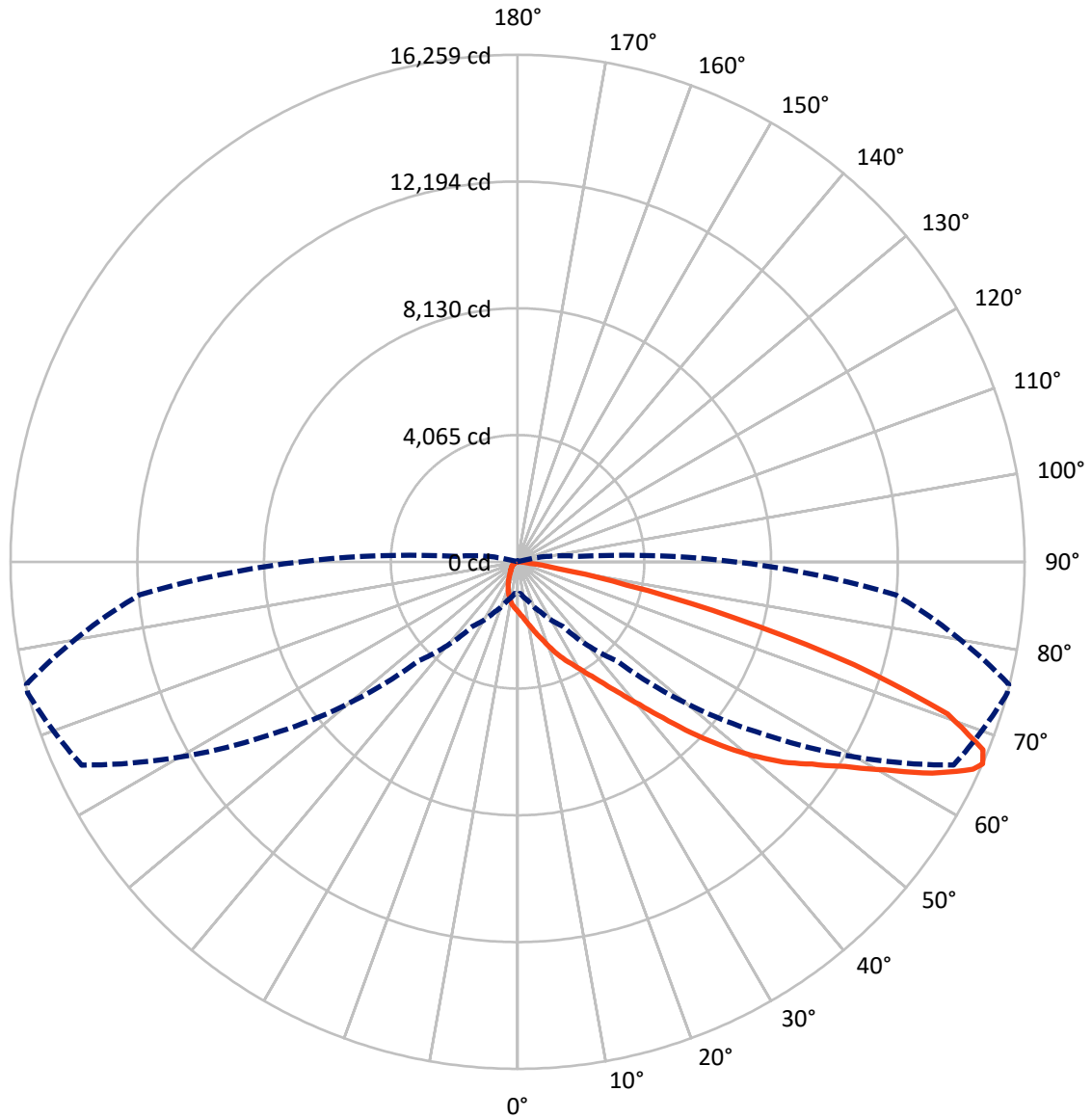
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA3D-840-U-T2-HSS

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	896.3	0.0	896.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13622.7	0.0	13622.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	14519.0	0.0	14519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	1.1
10°-20°	450.7	3.1
20°-30°	778.3	5.4
30°-40°	1403.9	9.7
40°-50°	2536.1	17.5
50°-60°	3953.8	27.2
60°-70°	3756.0	25.9
70°-80°	1407.7	9.7
80°-90°	79.4	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°	14519.0	100.0
0°-180°	14519.0	100.0

Coefficient of Utilization



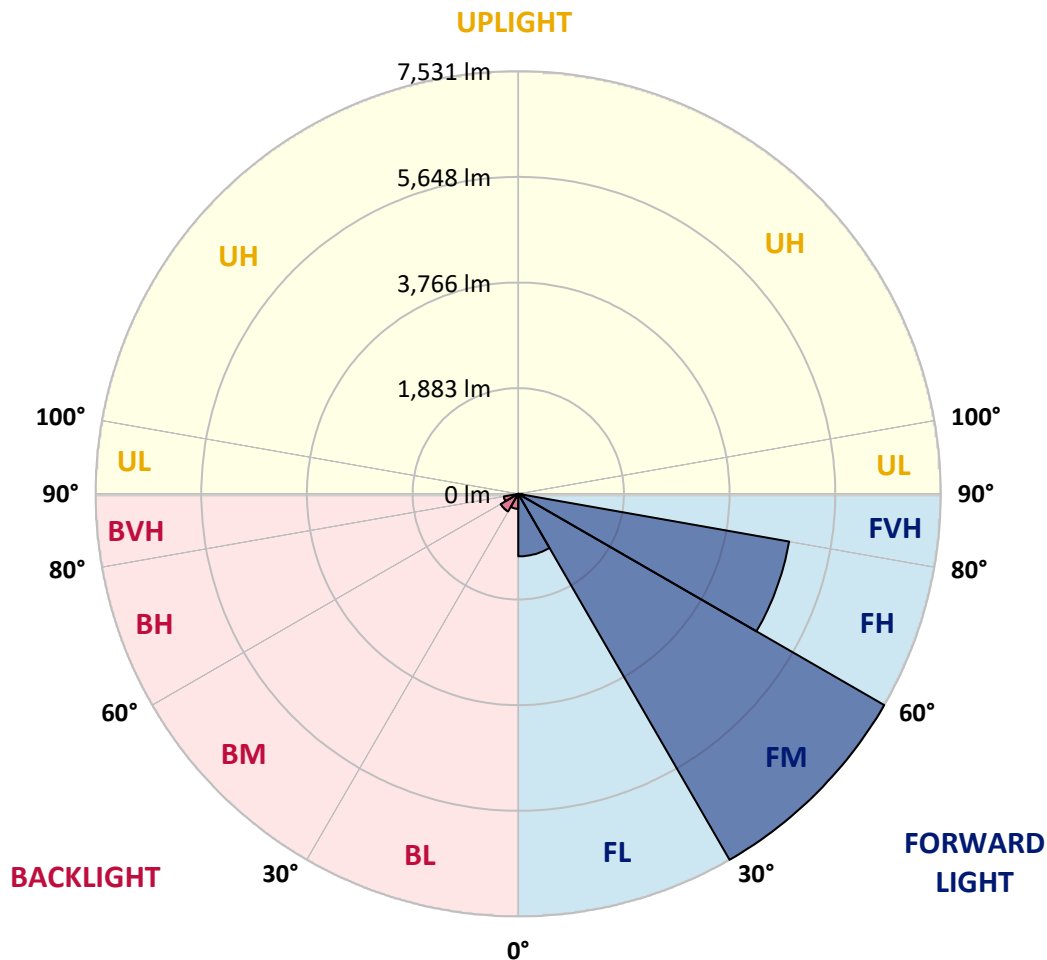
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.5	7.7			
FM (30°-60°)	7531.0	51.9			
FH (60°-80°)	4901.9	33.8			G2/5000
FVH (80°-90°)	75.3	0.5			G1/100
BL (0°-30°)	267.7	1.8	B1/500		
BM (30°-60°)	362.8	2.5	B1/1000		
BH (60°-80°)	261.7	1.8	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8
2.5°	1897.0	1873.3	1880.9	1870.1	1845.5	1809.0	1776.8	1730.6	1684.4	1676.9	1625.4
5°	2147.2	2140.7	2132.1	2101.0	2083.7	2028.0	1961.4	1882.0	1786.4	1769.2	1675.9
7.5°	2317.8	2314.6	2318.9	2302.8	2287.8	2237.3	2166.4	2058.0	1909.8	1900.2	1744.6
10°	2373.6	2382.2	2398.4	2424.1	2447.7	2431.6	2377.9	2242.7	2069.9	2041.9	1822.9
12.5°	2341.4	2351.1	2389.8	2458.5	2534.7	2578.7	2557.2	2458.5	2239.4	2216.9	1910.9
15°	2258.8	2270.6	2325.4	2431.6	2568.0	2692.5	2746.2	2675.3	2437.0	2400.5	2017.2
17.5°	2136.4	2153.5	2231.9	2372.5	2559.3	2774.1	2925.4	2901.9	2647.4	2613.1	2133.2
20°	2044.1	2056.9	2123.5	2284.6	2522.8	2819.2	3096.1	3162.7	2907.2	2848.1	2269.5
22.5°	2105.3	2109.6	2132.1	2228.7	2457.4	2831.0	3246.4	3434.3	3183.1	3130.5	2411.2
25°	2404.8	2361.9	2339.3	2317.8	2443.4	2820.2	3382.8	3717.7	3457.9	3402.1	2551.8
27.5°	2877.1	2857.8	2744.0	2591.5	2562.6	2834.2	3473.0	3986.2	3716.6	3656.6	2689.3
30°	3391.4	3358.1	3288.3	3065.0	2840.6	2933.0	3538.4	4247.0	4022.7	3943.2	2814.9
32.5°	3863.7	3885.3	3781.1	3551.4	3291.5	3143.4	3623.3	4531.5	4373.7	4274.9	2960.9
35°	4414.5	4457.5	4297.5	4077.4	3773.6	3523.5	3788.6	4852.5	4819.2	4694.7	3186.3
37.5°	4973.8	4999.6	4901.9	4592.7	4319.0	4006.5	4100.0	5248.7	5367.9	5261.5	3455.8
40°	5444.0	5479.5	5407.5	5132.7	4840.7	4565.9	4551.9	5680.2	6020.6	5911.1	3857.3
42.5°	5803.7	5830.5	5832.7	5638.3	5375.3	5250.8	5128.4	6231.0	6838.6	6711.9	4323.2
45°	6257.8	6296.5	6273.9	6141.8	5945.4	5922.8	5859.5	6896.5	7817.7	7657.7	4927.7
47.5°	6959.9	6985.7	6929.8	6774.2	6574.5	6609.9	6572.3	7642.7	8816.1	8678.7	5553.5
50°	7447.3	7490.3	7569.7	7632.0	7487.0	7356.1	7244.4	8339.4	9764.0	9640.6	6193.4
52.5°	7441.9	7512.8	7764.0	8077.5	8394.2	8354.5	8033.5	9109.2	10669.1	10516.6	6794.6
55°	6940.6	7078.0	7447.3	8003.4	8880.5	9317.4	9171.4	10000.2	11450.6	11347.5	7491.3
57.5°	5905.7	5989.4	6502.5	7279.9	8608.9	9770.5	10489.8	11208.0	12387.8	12339.5	8573.5
60°	3972.2	4009.7	4670.0	5630.8	7329.2	9318.5	11456.0	12669.1	13542.0	13518.3	9837.1
62.5°	2275.9	2292.1	2770.8	3581.4	5215.4	7897.2	11537.6	14471.6	14925.7	14938.6	11299.3
65°	1224.9	1233.5	1620.0	2102.0	3173.4	5628.7	10374.9	15459.3	16044.4	16069.1	12205.3
66°	1057.5	1016.7	1289.3	1791.8	2525.0	4480.0	9639.5	15423.9	16259.1	16232.2	12173.1
67.5°	804.1	840.6	1029.6	1377.4	1871.2	3185.3	7958.3	14737.9	16095.9	16012.2	11678.2
70°	575.4	590.5	733.3	982.3	1274.3	1747.8	5085.4	12240.8	14629.4	14516.7	10174.2
72.5°	371.5	387.5	519.6	710.7	921.1	954.4	2847.1	8844.0	11278.8	11262.8	7662.0
75°	265.2	280.2	343.5	508.9	692.5	590.5	1370.9	5960.4	7170.3	7122.0	4739.8
77.5°	192.2	199.7	229.8	332.8	494.9	423.0	635.5	3183.1	3569.6	3738.2	2094.5
80°	110.6	117.0	160.0	202.9	335.0	288.8	303.9	1277.6	1317.3	1253.9	654.9
82.5°	54.7	62.2	95.5	138.5	209.3	194.4	139.5	384.3	405.8	395.1	165.3
85°	12.9	16.1	53.7	91.2	102.0	87.0	67.6	112.7	139.5	136.3	63.3
87.5°	1.1	2.2	19.3	16.1	17.2	29.0	23.6	29.0	45.1	41.9	22.5
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°	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8	1587.8
2.5°	1601.8	1581.3	1522.3	1464.3	1416.0	1365.5	1319.4	1292.5	1281.9	1270.0	1275.4
5°	1624.3	1574.9	1455.8	1352.7	1251.7	1165.9	1097.2	1053.2	1031.7	1028.5	1023.1
7.5°	1654.3	1569.6	1384.9	1223.8	1091.8	996.2	917.9	854.5	835.2	818.0	804.1
10°	1690.8	1559.9	1296.8	1088.6	948.0	827.7	724.7	649.5	610.8	600.1	607.6
12.5°	1729.5	1541.6	1204.6	964.0	802.0	648.4	552.9	515.3	504.6	500.3	501.3
15°	1768.1	1519.1	1107.9	843.9	638.7	517.5	473.5	463.8	459.5	457.3	455.1
17.5°	1803.6	1482.6	999.5	726.8	517.5	442.3	426.2	417.6	409.1	405.8	400.4
20°	1845.5	1440.7	901.8	595.8	438.0	400.4	381.1	365.0	352.1	343.5	342.5
22.5°	1885.2	1387.1	799.8	493.8	399.4	359.6	328.5	311.3	296.3	285.6	288.8
25°	1906.6	1321.5	708.5	430.5	363.9	318.8	284.5	263.1	246.9	241.5	240.4
27.5°	1906.6	1241.1	619.5	394.0	331.7	282.3	246.9	226.5	215.8	208.2	209.3
30°	1891.6	1151.9	536.8	366.1	303.9	250.1	216.9	198.6	190.0	184.7	183.6
32.5°	1879.8	1067.1	465.9	339.3	274.8	222.2	193.3	179.3	170.7	165.3	165.3
35°	1898.1	994.1	411.2	312.4	248.0	200.7	175.0	162.1	153.5	149.2	148.2
37.5°	1946.4	927.5	369.3	283.4	223.3	182.5	162.1	147.1	138.5	133.1	130.9
40°	2065.5	889.9	338.2	256.6	199.7	167.4	147.1	133.1	122.4	117.0	116.0
42.5°	2256.7	891.0	308.1	231.9	181.4	154.6	134.2	118.1	106.3	100.9	99.8
45°	2544.4	931.8	284.5	208.2	165.3	140.6	120.3	103.0	92.3	87.0	87.0
47.5°	2888.9	1011.3	264.1	187.9	150.3	127.7	106.3	89.1	78.4	74.1	74.1
50°	3262.6	1114.3	243.7	166.4	137.4	113.8	91.2	77.3	68.7	65.5	65.5
52.5°	3643.6	1238.9	223.3	149.2	123.5	98.7	78.4	68.7	61.2	59.0	57.9
55°	4143.9	1397.7	201.8	130.9	108.4	84.8	69.8	60.1	51.6	48.3	47.3
57.5°	4913.7	1637.2	178.2	114.9	89.1	70.9	60.1	50.5	40.8	35.4	34.3
60°	5842.3	1929.2	153.5	100.9	71.9	57.9	48.3	38.7	30.0	23.6	22.5
62.5°	6711.9	2114.9	129.9	84.8	56.9	44.0	34.3	29.0	21.4	15.1	14.0
65°	7096.3	2052.6	107.4	68.7	45.1	31.1	22.5	20.4	12.9	6.5	5.4
66°	6968.5	1960.3	98.7	62.2	40.8	26.8	19.3	17.2	9.7	3.2	3.2
67.5°	6591.7	1742.4	85.9	53.7	35.4	21.4	15.1	12.9	5.4	1.1	0.0
70°	5648.0	1409.6	67.6	39.7	25.7	15.1	8.6	6.5	3.2	0.0	0.0
72.5°	4338.3	1049.9	53.7	30.0	18.2	8.6	4.3	2.2	3.2	0.0	0.0
75°	2658.1	600.1	41.9	22.5	11.8	5.4	3.2	0.0	3.2	1.1	0.0
77.5°	1179.8	269.5	27.9	15.1	8.6	4.3	2.2	0.0	2.2	1.1	0.0
80°	298.5	88.1	16.1	10.8	6.5	3.2	1.1	0.0	2.2	2.2	1.1
82.5°	81.6	32.2	11.8	8.6	5.4	3.2	1.1	0.0	2.2	2.2	2.2
85°	32.2	15.1	10.8	8.6	6.5	3.2	1.1	0.0	2.2	2.2	2.2
87.5°	15.1	10.8	10.8	9.7	7.5	3.2	1.1	0.0	2.2	1.1	2.2
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)