

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: P647812

Luminaire Tested: **GALN-SA3A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7974.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

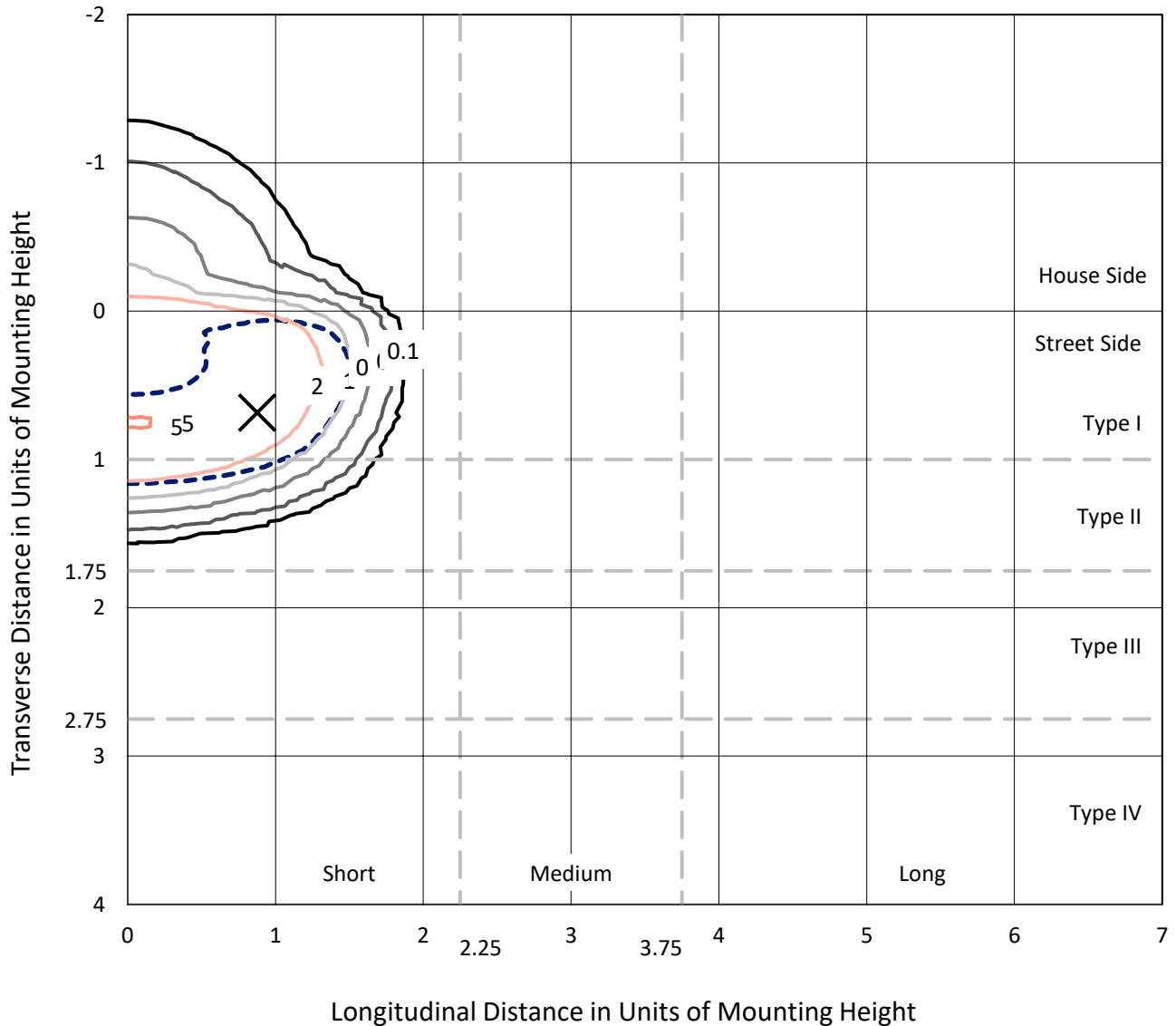
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

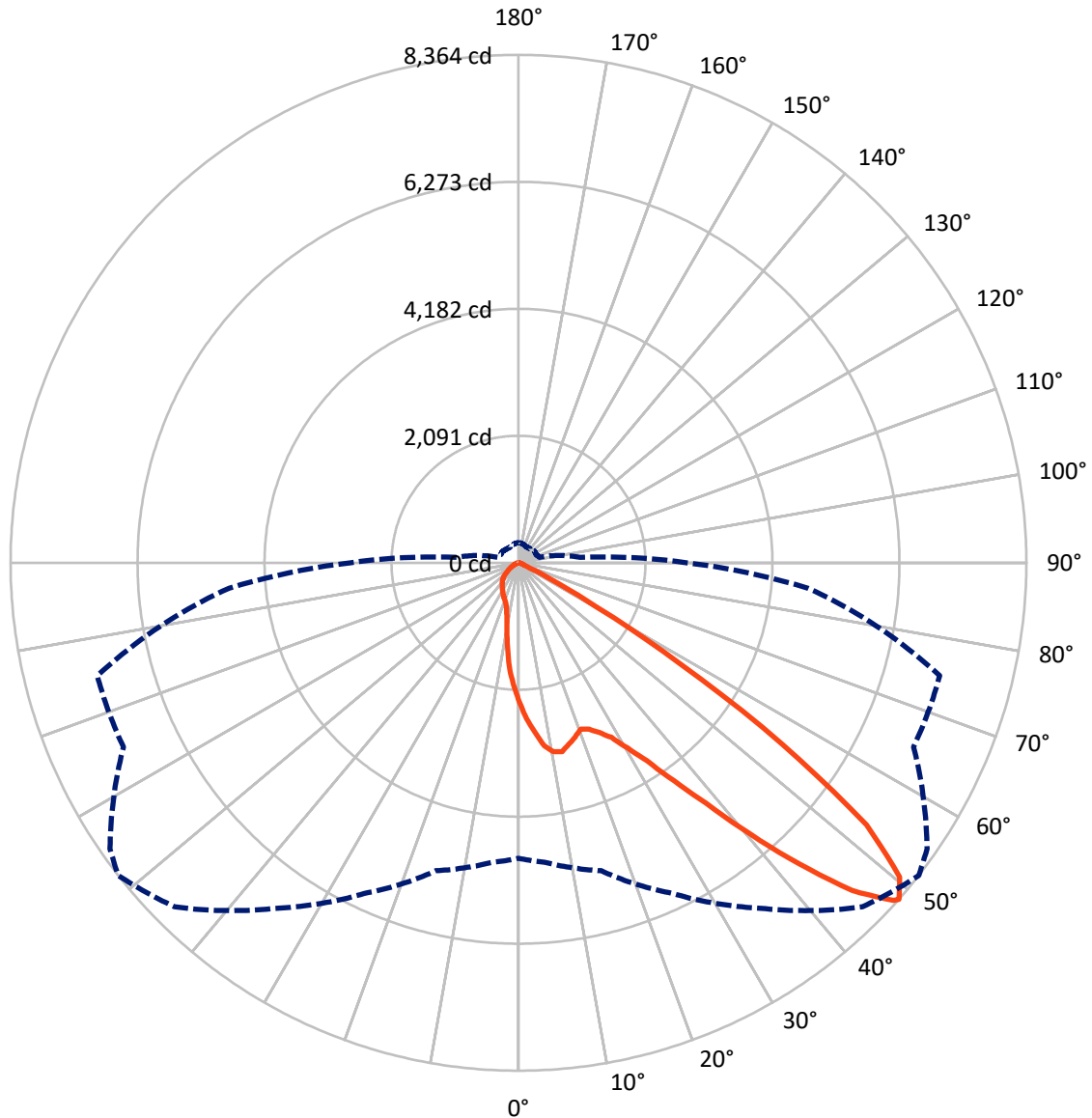
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.9	0.0	970.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7003.2	0.0	7003.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	7974.1	0.0	7974.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	2.6
10°-20°	550.8	6.9
20°-30°	940.5	11.8
30°-40°	1731.9	21.7
40°-50°	2689.6	33.7
50°-60°	1618.7	20.3
60°-70°	187.2	2.3
70°-80°	36.2	0.5
80°-90°	8.4	0.1
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°	7974.1	100.0
0°-180°	7974.1	100.0

Coefficient of Utilization

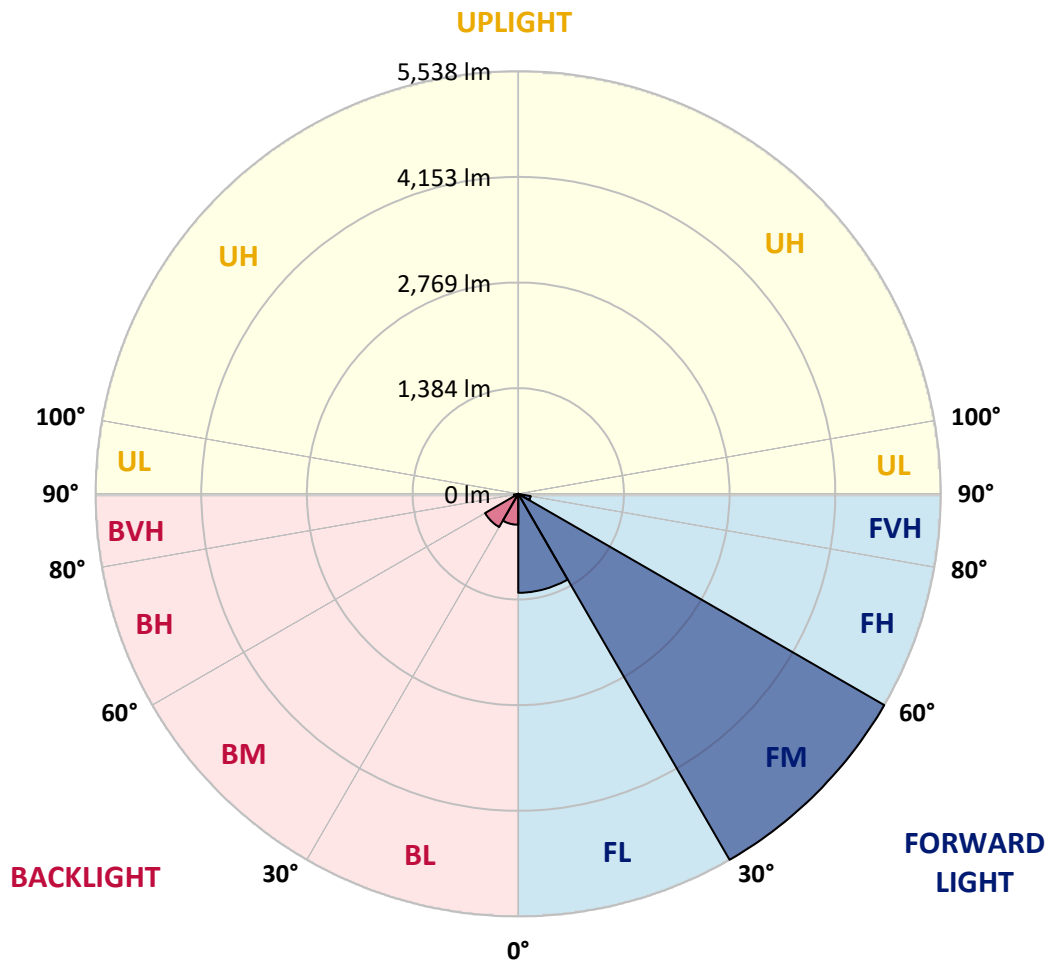


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.5	16.3			
FM (30°-60°)	5537.8	69.4			
FH (60°-80°)	164.9	2.1			G0/660
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	405.6	5.1	B1/500		
BM (30°-60°)	502.3	6.3	B1/1000		
BH (60°-80°)	58.6	0.7	B0/110		G0/110
BVH (80°-90°)	4.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8
2.5°	2791.0	2727.0	2732.9	2691.0	2666.6	2627.1	2573.6	2563.2	2505.1	2426.0	2345.8
5°	3042.1	3027.0	3046.7	2986.3	2988.6	2923.5	2798.0	2800.3	2666.6	2537.6	2413.2
7.5°	3058.4	3023.5	3043.3	3096.7	3128.1	3116.5	3045.6	2983.9	2857.2	2667.8	2486.4
10°	2738.7	2804.9	2825.8	2914.2	3039.8	3172.2	3164.2	3167.6	3061.8	2814.3	2549.2
12.5°	2546.9	2502.7	2573.6	2627.1	2816.6	3073.5	3190.9	3216.5	3224.6	2956.1	2612.0
15°	2459.7	2459.7	2471.3	2486.4	2623.6	2860.8	3100.2	3174.6	3350.1	3142.0	2710.8
17.5°	2514.4	2512.0	2528.3	2496.9	2548.0	2730.6	3016.5	3101.4	3490.8	3324.5	2788.7
20°	2680.6	2688.7	2678.3	2587.6	2591.0	2728.2	2923.5	3057.2	3586.1	3482.6	2892.2
22.5°	2911.9	2916.5	2857.2	2758.4	2729.4	2796.8	2977.0	3079.3	3662.8	3672.1	2923.5
25°	3179.2	3160.7	3149.1	3009.5	2921.2	2979.3	3097.9	3157.1	3710.5	3834.9	3013.1
27.5°	3550.0	3512.9	3442.0	3317.6	3252.5	3170.0	3254.8	3352.5	3846.5	4062.7	3110.7
30°	4097.6	4065.0	3926.7	3766.3	3595.4	3514.0	3540.8	3594.2	4091.8	4326.5	3239.7
32.5°	4921.7	4853.2	4653.2	4347.5	4115.0	3890.6	3883.7	3940.7	4311.4	4691.6	3393.1
35°	5829.6	5808.7	5514.6	5199.6	4749.7	4403.3	4409.1	4439.3	4732.3	5170.5	3594.2
37.5°	6432.9	6548.0	6360.9	6022.6	5644.8	5149.6	5024.0	5034.5	5310.0	5737.7	3956.9
40°	6899.0	6801.4	6823.5	6744.4	6486.4	6149.3	5871.5	5816.8	5978.4	6365.5	4317.3
42.5°	6695.6	6700.3	6836.3	7023.4	7087.3	7063.0	6779.3	6675.9	6550.3	6879.3	4660.2
45°	6121.3	6241.1	6417.8	6913.0	7347.8	7755.8	7699.9	7527.9	6945.5	7286.1	4857.8
47.5°	5205.4	5200.7	5490.2	6134.2	7100.2	8055.7	8309.0	8188.1	7225.7	7240.8	4817.1
48°	4867.1	4950.8	5249.5	6007.5	6943.2	8011.5	8363.7	8211.4	7178.0	7180.3	4782.3
50°	3597.7	3582.6	3954.6	4884.5	6201.6	7527.9	8133.6	8252.1	7176.9	6874.7	4538.1
52.5°	1900.6	1965.6	2236.5	3071.2	4384.7	6160.9	7174.6	7359.3	6923.4	6374.8	4187.1
55°	807.9	730.0	938.1	1386.8	2466.7	4116.2	5263.5	5675.0	5854.0	5641.3	3662.8
57.5°	288.3	315.0	362.7	521.9	1036.9	2252.8	3138.6	3458.3	4055.7	4139.4	2495.7
60°	184.8	188.3	203.4	239.4	389.4	868.3	1489.1	1743.7	2014.5	2079.6	1164.8
62.5°	143.0	144.2	151.1	156.9	184.8	337.1	559.1	662.6	688.2	591.7	305.7
65°	119.7	120.9	123.2	123.2	131.4	158.1	195.3	215.0	209.2	206.9	173.2
67.5°	91.8	94.2	98.8	98.8	103.4	96.5	108.1	115.1	130.2	158.1	147.6
70°	72.0	73.2	76.7	79.1	79.1	69.8	77.9	84.9	95.3	117.4	116.3
72.5°	55.8	58.1	60.4	60.4	56.9	47.7	55.8	61.6	68.6	81.4	79.1
75°	43.0	43.0	44.2	36.0	27.9	24.4	33.7	40.7	51.1	53.5	44.2
77.5°	11.6	12.8	11.6	10.5	11.6	17.5	22.1	25.6	32.6	32.6	29.0
80°	0.0	1.2	3.5	7.0	11.6	16.3	19.7	22.1	25.6	27.9	26.7
82.5°	0.0	1.2	3.5	7.0	10.5	12.8	17.5	18.6	20.9	24.4	24.4
85°	0.0	1.2	2.3	4.6	7.0	8.1	8.1	7.0	7.0	5.8	4.6
87.5°	0.0	0.0	1.2	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5
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°	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8	2302.8
2.5°	2314.4	2278.4	2223.7	2137.7	2055.2	2001.7	1950.5	1893.6	1862.2	1859.9	1842.5
5°	2342.3	2260.9	2130.8	1983.1	1825.0	1689.0	1551.8	1462.3	1382.2	1338.0	1329.8
7.5°	2357.4	2251.6	2041.2	1793.6	1524.0	1301.9	1148.5	1035.8	991.6	959.0	957.8
10°	2388.8	2235.4	1907.5	1542.5	1209.0	984.5	878.8	827.6	803.3	794.0	780.0
12.5°	2412.0	2205.2	1770.4	1284.5	955.5	816.0	769.5	757.9	759.0	763.7	757.9
15°	2444.6	2178.4	1585.6	1054.3	802.1	734.7	734.7	737.0	753.2	755.6	754.4
17.5°	2442.3	2126.1	1394.9	868.3	709.1	699.8	703.3	725.4	735.8	739.3	731.2
20°	2470.2	2077.3	1198.5	741.7	656.8	670.7	694.0	699.8	712.6	714.9	705.6
22.5°	2462.1	1955.2	1015.9	641.7	617.2	644.0	667.3	674.2	670.7	663.7	662.6
25°	2447.0	1850.6	848.5	575.4	588.2	617.2	639.3	626.6	619.6	620.8	621.9
27.5°	2420.2	1718.1	710.3	528.9	548.6	591.7	590.5	585.8	592.8	587.0	592.8
30°	2415.6	1585.6	596.3	487.0	519.6	551.0	553.3	561.5	569.6	559.1	569.6
32.5°	2422.5	1440.3	515.0	461.5	502.1	503.3	528.9	537.1	531.3	508.0	510.3
35°	2476.0	1328.7	455.7	447.6	474.3	475.4	499.9	489.4	463.8	449.8	458.0
37.5°	2588.8	1235.7	427.8	434.7	437.1	452.2	453.4	432.5	434.7	433.6	438.2
40°	2732.9	1164.8	408.0	423.1	420.8	431.3	389.4	401.1	411.5	415.0	417.3
42.5°	2831.7	1113.6	395.3	404.5	399.9	381.2	358.1	369.7	377.8	390.6	392.9
45°	2875.9	1072.9	380.1	372.0	372.0	338.3	328.9	331.3	349.9	363.9	361.5
47.5°	2803.8	1033.4	353.4	328.9	337.1	309.2	298.7	298.7	318.5	335.9	332.5
48°	2775.9	1017.1	354.5	319.7	325.5	304.6	294.1	291.7	313.8	330.1	330.1
50°	2637.5	956.7	324.3	294.1	282.5	280.2	273.2	275.5	289.5	304.6	304.6
52.5°	2367.9	826.5	274.4	252.3	231.3	245.2	248.8	244.1	251.1	265.0	263.9
55°	1976.1	634.7	219.7	209.2	192.9	208.0	215.0	209.2	202.2	212.7	212.7
57.5°	1265.9	341.8	175.5	177.8	161.6	176.7	182.5	168.6	155.7	163.9	162.7
60°	570.7	204.6	144.2	140.6	130.2	147.6	156.9	140.6	123.2	129.0	134.8
62.5°	213.9	145.3	109.3	107.0	104.6	120.9	125.5	112.8	95.3	98.8	100.0
65°	156.9	127.9	87.1	79.1	83.7	95.3	93.0	80.2	68.6	68.6	70.9
67.5°	133.7	111.6	70.9	61.6	61.6	62.8	58.1	51.1	47.7	50.0	52.3
70°	104.6	88.3	55.8	47.7	43.0	38.4	33.7	32.6	29.0	32.6	31.4
72.5°	67.4	59.3	43.0	36.0	32.6	26.7	22.1	20.9	17.5	16.3	16.3
75°	36.0	36.0	33.7	29.0	25.6	20.9	17.5	13.9	9.3	7.0	7.0
77.5°	25.6	27.9	30.2	27.9	23.3	17.5	13.9	9.3	4.6	2.3	2.3
80°	24.4	27.9	30.2	26.7	23.3	17.5	12.8	7.0	3.5	1.2	1.2
82.5°	22.1	25.6	27.9	24.4	20.9	15.1	11.6	7.0	3.5	1.2	1.2
85°	4.6	5.8	7.0	7.0	8.1	10.5	8.1	5.8	2.3	1.2	1.2
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	1.2
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)