

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: P647904

Luminaire Tested: **GALN-SA4A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8614.6 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

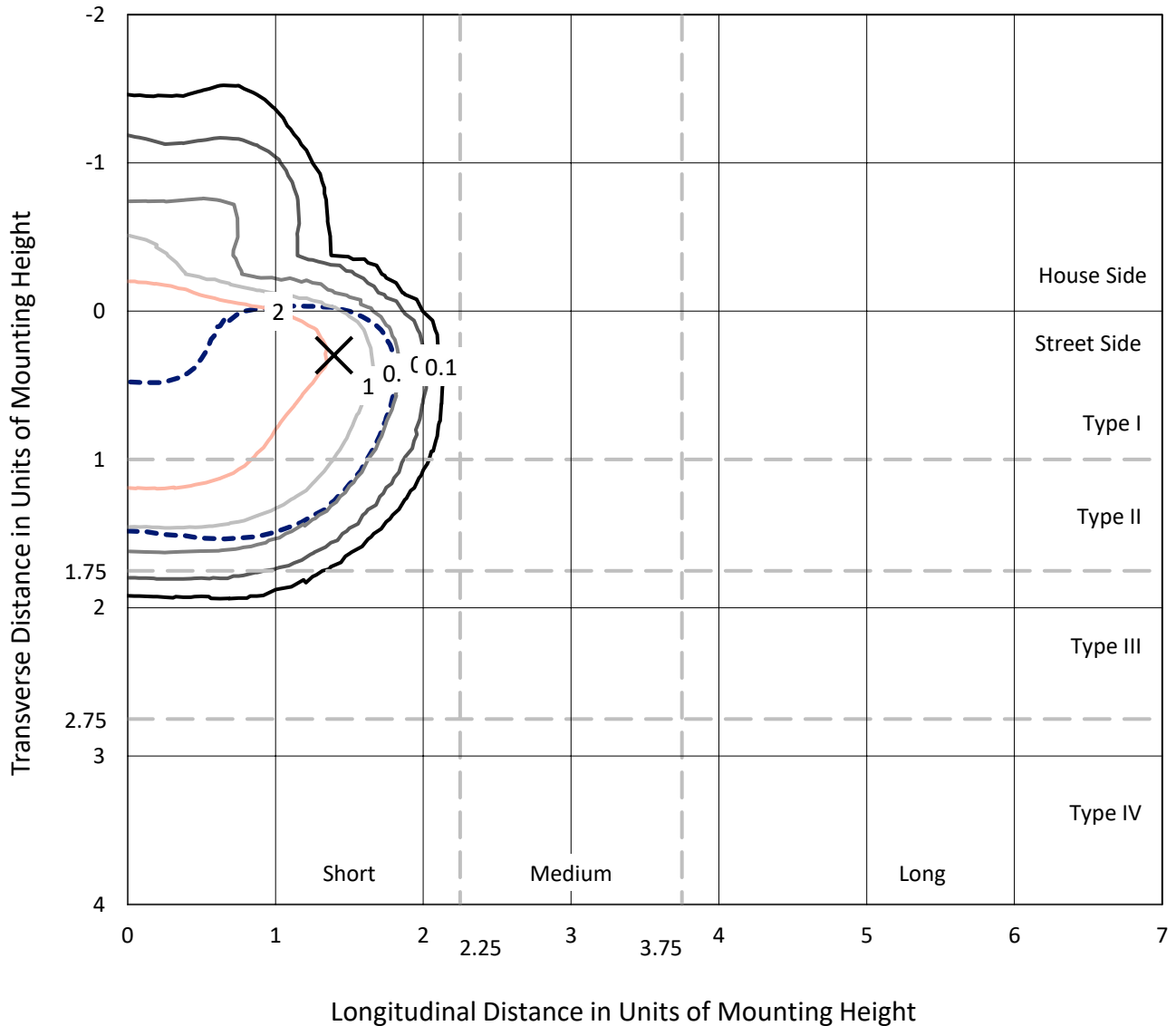
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

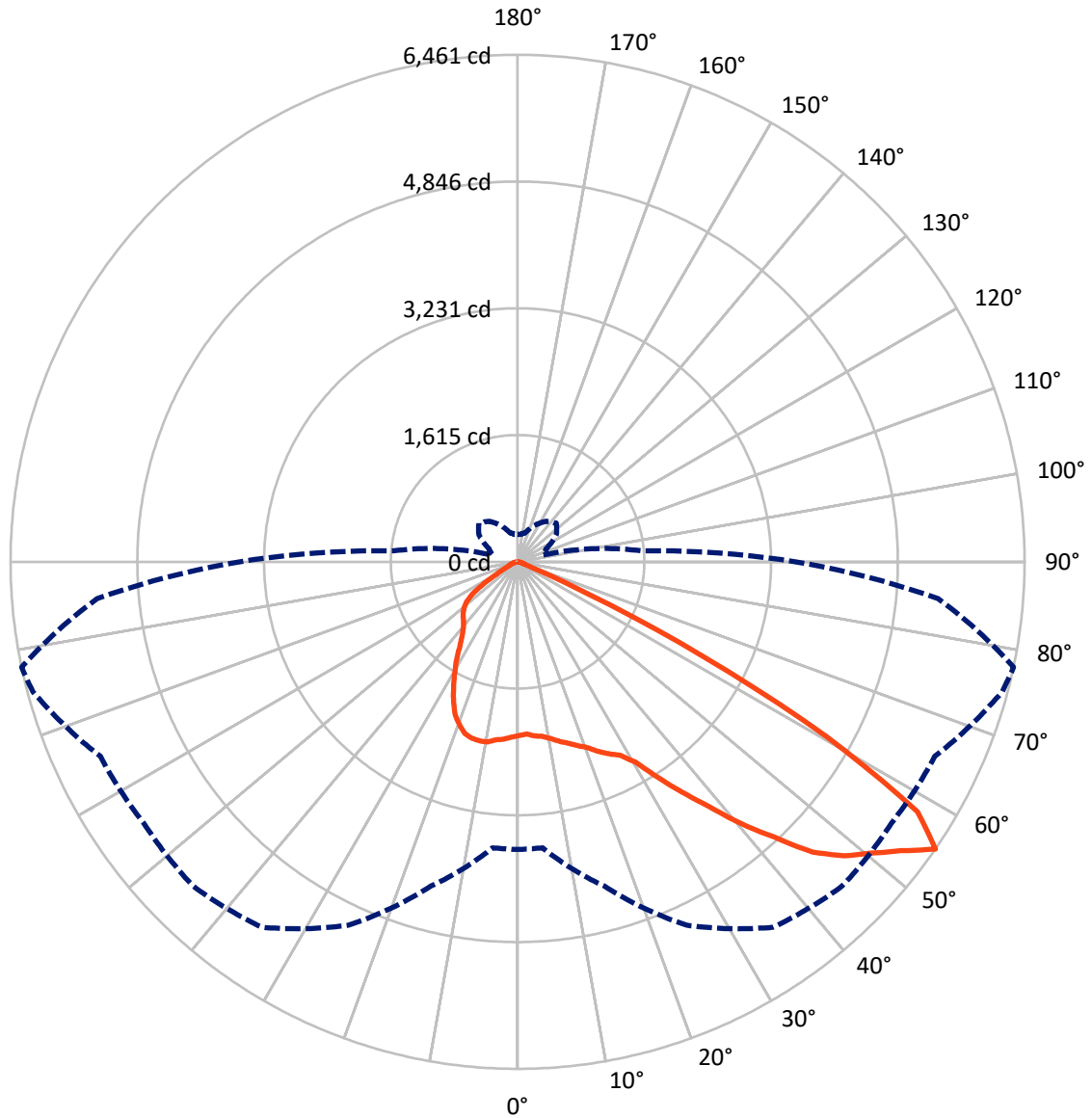
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1600.1	0.0	1600.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7014.5	0.0	7014.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	8614.6	0.0	8614.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	2.3
10°-20°	522.7	6.1
20°-30°	916.1	10.6
30°-40°	1510.6	17.5
40°-50°	2198.1	25.5
50°-60°	2490.7	28.9
60°-70°	712.1	8.3
70°-80°	55.3	0.6
80°-90°	11.5	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°	8614.6	100.0
0°-180°	8614.6	100.0

Coefficient of Utilization



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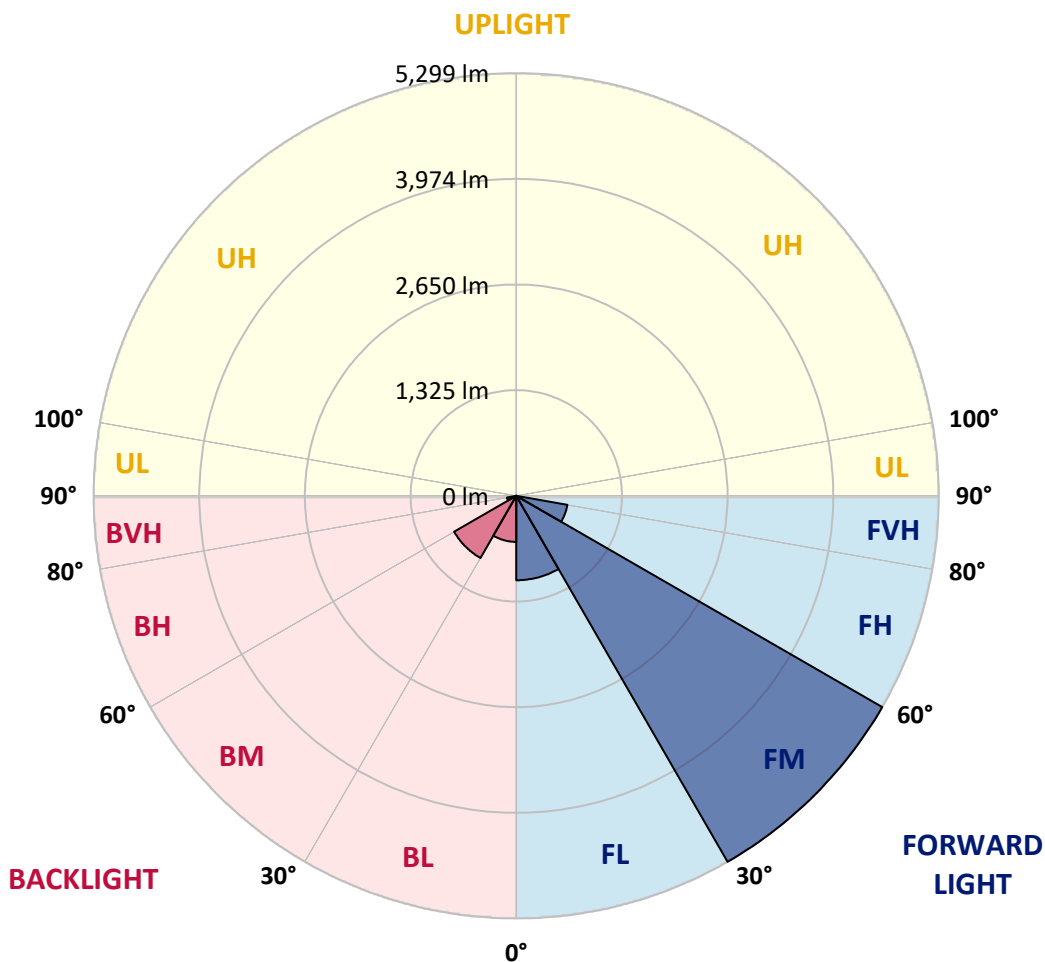
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.0	12.3			
FM (30°-60°)	5299.3	61.5			
FH (60°-80°)	650.6	7.6			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	577.3	6.7	B2/1000		
BM (30°-60°)	900.1	10.4	B1/1000		
BH (60°-80°)	116.8	1.4	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8
2.5°	2082.4	2102.4	2105.5	2130.1	2128.6	2170.2	2182.5	2184.0	2211.7	2197.9	2233.3
5°	2023.8	2013.0	2008.4	2051.5	2063.8	2100.9	2131.6	2150.1	2207.1	2227.2	2264.1
7.5°	1971.4	1971.4	1974.6	2013.0	2008.4	2056.2	2088.5	2145.5	2228.7	2245.6	2290.3
10°	1920.6	1902.1	1925.2	1965.3	1999.2	2020.8	2088.5	2142.4	2239.5	2288.7	2350.3
12.5°	1894.5	1903.7	1906.8	1936.0	1973.0	2037.7	2074.6	2164.0	2316.4	2345.7	2412.0
15°	2059.2	2040.7	1996.1	1969.9	2000.7	2031.5	2124.0	2214.8	2356.5	2398.1	2472.0
17.5°	2250.3	2234.8	2197.9	2127.0	2057.7	2114.7	2187.1	2270.2	2399.7	2461.2	2570.6
20°	2499.7	2475.1	2438.1	2299.5	2239.5	2177.8	2254.9	2353.5	2470.5	2526.0	2638.4
22.5°	2797.0	2797.0	2713.8	2545.9	2421.2	2362.7	2395.0	2452.0	2549.1	2624.5	2735.4
25°	3106.6	3097.3	3021.9	2847.8	2636.8	2567.5	2604.5	2644.5	2670.7	2712.3	2786.2
27.5°	3460.9	3406.9	3311.5	3118.9	2932.6	2798.5	2838.6	2803.1	2770.8	2792.4	2898.7
30°	3701.1	3735.0	3613.3	3428.5	3252.9	3103.5	3111.2	3080.4	2932.6	2963.3	3026.5
32.5°	3950.6	3972.2	3904.4	3802.8	3627.2	3453.1	3390.0	3363.8	3252.9	3266.8	3205.1
35°	4158.5	4200.2	4140.0	4095.4	4044.6	3904.4	3730.4	3815.1	3636.4	3602.5	3442.4
37.5°	4349.6	4337.2	4408.1	4361.9	4351.1	4252.5	4061.5	4078.5	3958.3	3950.6	3765.8
40°	4520.5	4523.5	4620.6	4642.2	4599.0	4423.5	4146.2	4280.2	4377.3	4386.5	4149.3
42.5°	4662.2	4703.8	4786.9	4961.0	4896.3	4603.6	4234.0	4380.3	4740.8	4797.8	4512.8
45°	4785.4	4870.1	4973.3	5128.9	5091.9	4859.3	4452.7	4586.7	5128.9	5278.3	4854.7
47.5°	4793.1	4904.0	5016.4	5247.4	5293.7	4996.4	4679.1	4913.2	5436.9	5598.6	5104.2
50°	4762.3	4820.9	5045.7	5296.8	5401.5	5219.7	4996.4	5187.4	5735.7	5837.3	5230.5
52.5°	4397.2	4442.0	4893.2	5343.0	5595.6	5472.3	5416.9	5569.4	6040.7	6116.2	5349.1
55°	3665.7	3657.9	4278.7	5110.4	5684.9	5846.6	5812.8	5866.6	6393.4	6461.2	5378.3
57.5°	2507.5	2647.6	3183.6	4255.6	5138.1	5758.8	5794.2	5704.9	5982.1	6008.4	4688.4
60°	1352.3	1410.8	1842.1	2840.1	3912.1	4693.0	4785.4	4623.7	4602.2	4528.2	3346.9
62.5°	537.5	566.8	811.7	1406.2	2131.6	2852.5	3051.1	2984.9	2843.2	2649.1	1732.7
65°	255.6	274.1	403.6	657.6	945.7	1189.1	1387.7	1449.3	1068.9	962.6	571.4
67.5°	174.1	187.9	294.2	375.8	337.3	352.7	459.0	426.7	251.0	214.1	158.6
70°	132.5	141.7	235.7	255.6	151.0	106.3	118.6	110.9	103.2	104.8	103.2
72.5°	94.0	101.6	172.5	151.0	66.2	49.3	63.1	75.5	75.5	75.5	73.9
75°	57.0	64.7	100.1	58.5	26.2	26.2	40.0	50.8	53.9	55.4	52.4
77.5°	29.3	37.0	33.9	16.9	16.9	20.0	29.3	35.4	38.5	38.5	37.0
80°	6.2	6.2	6.2	9.2	16.9	21.5	29.3	32.3	37.0	37.0	33.9
82.5°	0.0	1.6	4.6	9.2	15.4	20.0	27.7	32.3	37.0	38.5	35.4
85°	0.0	1.6	3.1	6.2	10.8	12.3	10.8	9.2	9.2	9.2	9.2
87.5°	0.0	0.0	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1
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°	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8	2214.8
2.5°	2236.4	2241.0	2233.3	2231.8	2225.6	2244.1	2199.4	2188.6	2216.4	2190.1	2196.3
5°	2265.6	2276.4	2262.6	2239.5	2205.6	2153.2	2108.5	2050.0	2022.3	2002.3	1999.2
7.5°	2287.2	2294.9	2281.0	2207.1	2105.5	1973.0	1874.4	1802.1	1745.1	1728.1	1700.4
10°	2375.0	2376.6	2307.2	2143.9	1945.3	1771.2	1620.3	1509.4	1452.4	1417.0	1401.6
12.5°	2433.5	2430.4	2290.3	2019.2	1754.3	1523.2	1350.8	1216.8	1164.4	1147.5	1136.7
15°	2507.5	2490.5	2250.3	1891.3	1507.8	1258.4	1102.8	1010.4	1005.8	995.0	1005.8
17.5°	2566.0	2518.2	2191.7	1658.8	1272.2	1036.5	934.9	941.1	953.4	964.2	965.7
20°	2661.5	2562.9	2057.7	1455.5	1053.5	888.7	887.1	914.9	945.7	958.0	970.3
22.5°	2733.8	2581.4	1914.4	1238.3	874.8	828.6	854.8	896.4	919.5	931.8	950.3
25°	2760.1	2530.6	1723.5	1021.2	788.6	800.9	840.9	868.7	897.9	911.8	904.1
27.5°	2786.2	2504.3	1495.5	840.9	742.4	782.5	816.3	844.0	853.2	871.8	884.1
30°	2849.3	2413.5	1290.7	726.9	719.3	770.1	794.7	804.0	828.6	839.4	839.4
32.5°	2900.2	2378.0	1073.5	673.1	716.2	776.3	779.3	779.3	782.5	774.7	771.6
35°	3004.9	2256.4	879.5	640.7	714.6	777.8	785.5	759.4	688.5	660.8	653.0
37.5°	3134.3	2177.8	736.3	633.1	725.4	796.3	808.6	710.0	617.6	572.9	565.2
40°	3291.4	2122.4	642.3	629.9	750.1	839.4	802.4	671.5	551.4	486.7	483.7
42.5°	3474.7	2071.6	579.1	628.4	780.9	884.1	796.3	639.2	483.7	440.5	446.6
45°	3621.0	2043.9	536.0	617.6	791.7	910.2	800.9	582.2	455.9	428.1	431.3
47.5°	3735.0	1985.3	500.6	599.2	790.1	919.5	759.4	559.1	442.0	449.8	457.4
50°	3738.0	1906.8	455.9	559.1	767.0	902.6	711.6	537.5	438.9	471.3	486.7
52.5°	3696.5	1795.9	408.2	502.1	713.1	844.0	668.4	528.3	425.1	422.0	440.5
55°	3548.6	1587.9	328.1	406.6	602.2	696.2	629.9	511.4	383.5	348.1	351.2
57.5°	2867.9	1138.2	241.8	291.1	426.7	509.8	568.3	503.6	345.0	295.7	297.2
60°	1775.8	645.3	177.1	198.6	263.4	309.6	460.5	468.2	308.0	249.5	246.4
62.5°	911.8	318.8	137.1	140.2	161.7	181.7	315.7	392.8	278.7	237.2	237.2
65°	305.0	157.1	120.1	107.8	107.8	112.4	191.0	272.6	235.7	198.6	198.6
67.5°	130.9	117.1	104.8	94.0	86.3	81.7	107.8	158.6	175.5	151.0	144.8
70°	101.6	98.6	90.9	78.5	67.8	61.6	63.1	81.7	100.1	97.0	94.0
72.5°	75.5	75.5	72.4	61.6	52.4	44.6	41.6	43.1	47.8	49.3	50.8
75°	52.4	53.9	53.9	47.8	38.5	32.3	27.7	23.1	18.5	15.4	13.9
77.5°	35.4	37.0	40.0	35.4	29.3	21.5	16.9	12.3	7.7	3.1	3.1
80°	30.8	35.4	38.5	35.4	30.8	23.1	16.9	9.2	4.6	0.0	0.0
82.5°	32.3	35.4	40.0	33.9	29.3	21.5	16.9	10.8	4.6	1.6	0.0
85°	7.7	7.7	9.2	10.8	13.9	15.4	12.3	7.7	4.6	1.6	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	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)