

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: STREETWORKS

Report Number: P452054

Luminaire Tested: **GLAN-SA3A-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9444 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

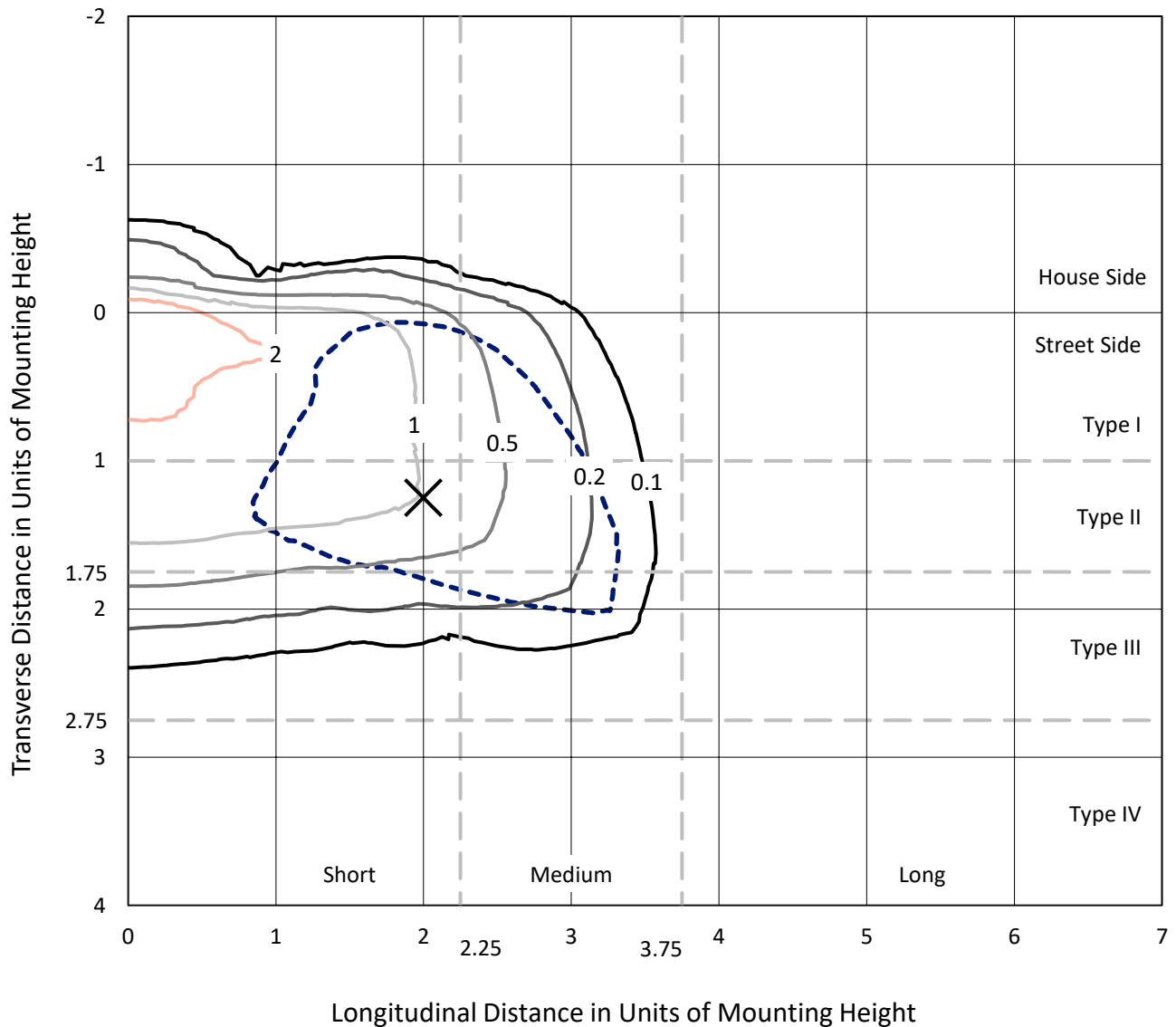
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

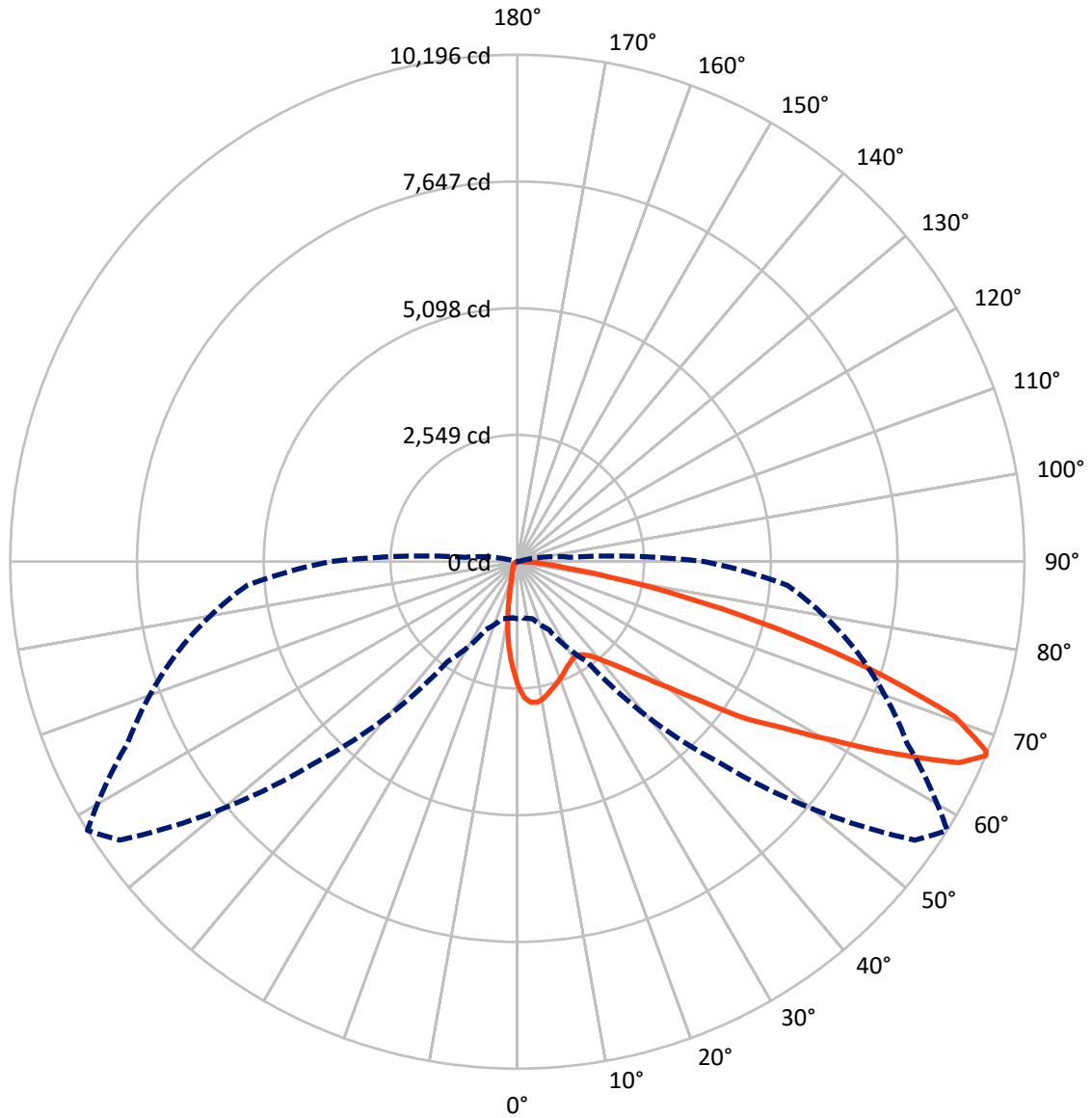
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	681.5	0.0	681.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8762.5	0.0	8762.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	9444.0	0.0	9444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	2.2
10°-20°	438.8	4.6
20°-30°	594.6	6.3
30°-40°	824.6	8.7
40°-50°	1315.2	13.9
50°-60°	2273.4	24.1
60°-70°	2596.9	27.5
70°-80°	1082.7	11.5
80°-90°	114.8	1.2
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°	9444.0	100.0
0°-180°	9444.0	100.0

Coefficient of Utilization



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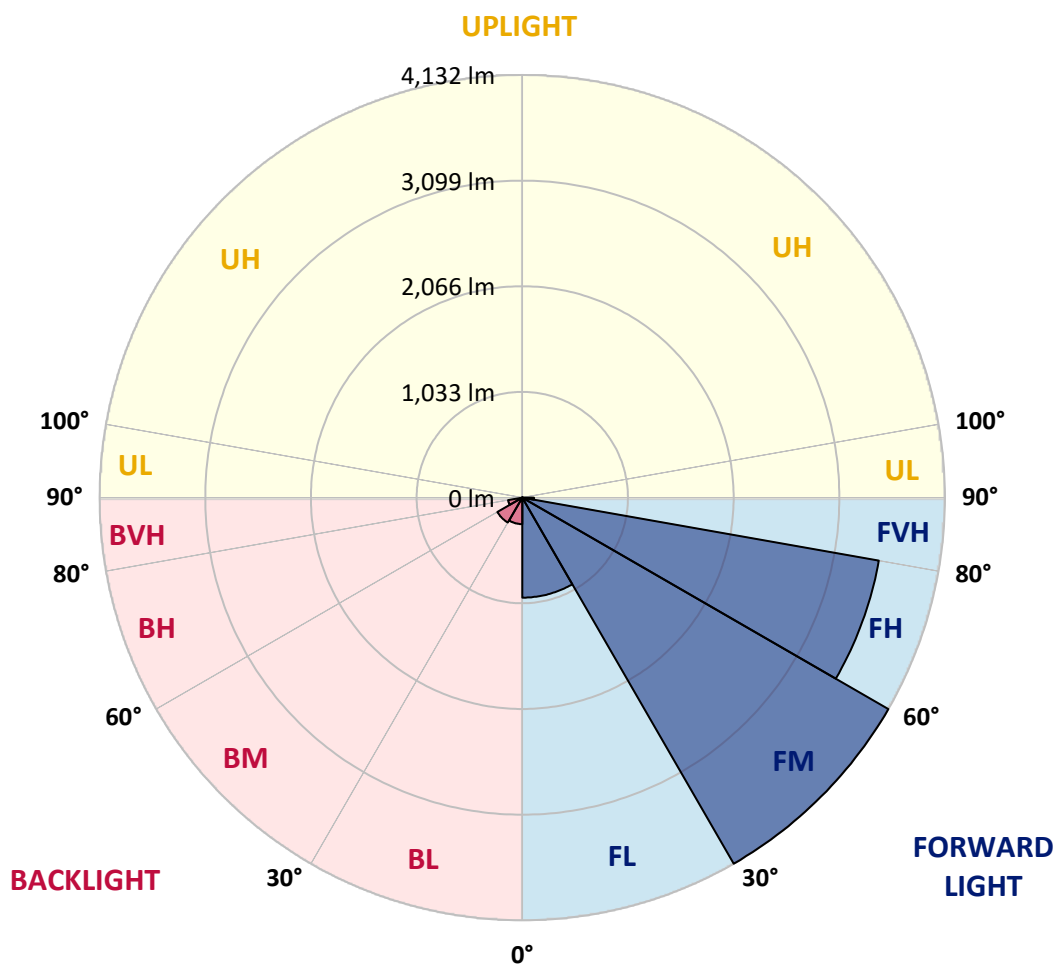
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.7	10.4			
FM (30°-60°)	4132.1	43.8			
FH (60°-80°)	3538.7	37.5			G2/5000
FVH (80°-90°)	114.0	1.2			G2/225
BL (0°-30°)	258.8	2.7	B1/500		
BM (30°-60°)	281.0	3.0	B1/1000		
BH (60°-80°)	140.9	1.5	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5
2.5°	2905.5	2909.9	2893.5	2880.3	2846.2	2809.6	2761.0	2735.1	2691.0	2614.6	2530.0
5°	2973.7	2979.4	2976.8	2973.7	2960.4	2925.1	2863.2	2840.5	2775.5	2651.2	2498.5
7.5°	2822.2	2843.0	2845.6	2870.2	2893.5	2896.7	2873.3	2856.3	2796.3	2650.6	2442.3
10°	2621.5	2635.4	2655.6	2684.0	2740.2	2786.9	2809.6	2807.1	2772.4	2631.0	2376.7
12.5°	2419.0	2426.5	2457.4	2506.0	2574.8	2654.3	2714.9	2726.9	2727.6	2607.6	2321.8
15°	2244.8	2241.6	2265.6	2321.8	2418.3	2518.0	2626.6	2645.5	2675.8	2584.9	2270.6
17.5°	2095.8	2112.2	2116.0	2177.9	2266.9	2396.2	2534.4	2567.9	2628.5	2565.4	2228.4
20°	2003.7	2012.5	2020.7	2055.4	2135.6	2271.9	2448.0	2494.1	2584.3	2547.7	2181.0
22.5°	1976.6	1982.2	1975.3	1986.0	2042.8	2164.0	2354.0	2415.2	2542.0	2531.3	2142.5
25°	1997.4	2003.1	1986.7	1974.0	1993.6	2076.3	2263.1	2337.5	2507.9	2528.1	2113.5
27.5°	2047.9	2058.6	2035.9	2013.2	2001.8	2028.9	2191.8	2278.2	2484.6	2543.3	2100.3
30°	2126.8	2133.1	2116.0	2088.3	2062.4	2035.3	2154.5	2237.2	2478.3	2578.6	2099.0
32.5°	2212.6	2225.8	2216.4	2198.1	2164.6	2100.3	2165.3	2238.5	2493.4	2629.7	2114.8
35°	2318.6	2333.8	2342.6	2338.8	2295.9	2215.7	2233.4	2295.3	2533.8	2723.8	2157.7
37.5°	2422.7	2436.0	2485.8	2502.9	2465.0	2389.3	2365.9	2407.0	2622.8	2846.8	2235.3
40°	2542.0	2559.7	2629.7	2694.7	2676.4	2596.9	2554.0	2588.1	2759.1	3032.4	2382.3
42.5°	2656.2	2687.8	2794.4	2909.3	2926.3	2837.4	2809.0	2820.3	2961.1	3299.3	2587.5
45°	2818.4	2848.1	2985.7	3141.5	3221.7	3152.3	3123.2	3121.4	3238.1	3674.8	2920.0
47.5°	3052.6	3079.1	3241.3	3395.2	3537.9	3547.3	3492.4	3511.4	3586.5	4114.0	3327.7
50°	3339.7	3402.2	3508.8	3669.1	3859.7	4013.7	4030.7	4005.5	4069.9	4622.7	3817.4
52.5°	3756.9	3780.8	3878.7	4010.6	4234.0	4495.2	4697.8	4663.1	4642.9	5107.4	4312.2
55°	4068.0	4100.2	4252.3	4433.4	4760.9	5105.5	5544.7	5556.7	5301.8	5573.1	4796.3
57.5°	3973.9	4023.2	4253.5	4617.7	5337.7	5967.5	6294.5	6302.7	5911.4	6025.6	5342.8
60°	3491.2	3514.5	3844.6	4330.5	5386.9	6901.6	7357.8	7291.6	6531.7	6531.7	5825.6
62.5°	2475.7	2512.4	2779.9	3495.0	4865.0	7225.9	8631.4	8494.4	7386.2	7015.8	6113.3
65°	1582.1	1546.8	1724.1	2206.3	3624.3	6746.9	9740.2	9748.4	8190.2	7209.5	5956.2
67°	1146.1	1132.2	1183.3	1508.3	2457.4	5671.6	9763.5	10195.8	8652.2	7087.1	5453.8
67.5°	1048.2	1059.0	1096.2	1360.6	2232.8	5161.0	9657.5	10169.3	8756.3	7013.3	5272.1
70°	794.5	776.2	816.6	962.4	1338.5	3255.8	8307.6	9326.8	8626.9	6280.6	4212.5
72.5°	584.4	582.5	638.7	787.0	1030.6	1734.2	6236.4	7478.4	7048.0	4782.4	2652.5
75°	394.4	412.1	501.7	657.6	934.0	1124.6	4251.6	5425.4	4892.8	2715.6	1084.2
77.5°	224.7	225.9	323.1	528.2	838.7	905.0	2519.3	3456.5	2590.0	903.1	321.9
80°	97.2	106.7	160.3	383.7	695.5	801.5	1444.6	1899.6	1047.6	191.2	104.1
82.5°	36.0	42.3	70.7	236.0	507.4	660.1	872.8	906.9	355.3	67.5	65.0
85°	0.0	1.3	25.9	110.4	264.4	294.7	583.1	537.7	157.1	32.2	42.3
87.5°	0.0	0.0	0.0	11.4	34.7	109.8	181.1	201.9	37.9	11.4	10.1
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°	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5
2.5°	2484.6	2443.6	2340.7	2237.8	2161.5	2097.7	2001.8	1949.4	1921.7	1880.6	1883.2
5°	2422.1	2338.8	2157.7	1970.3	1818.8	1671.1	1494.4	1423.1	1363.1	1329.1	1306.3
7.5°	2329.3	2206.3	1938.1	1688.2	1455.3	1197.2	1003.4	874.1	787.0	754.8	723.9
10°	2227.7	2064.3	1715.3	1368.8	1045.7	779.4	615.3	496.7	454.4	415.3	419.0
12.5°	2133.7	1934.9	1510.8	1080.4	732.7	495.4	386.2	337.6	323.7	319.3	319.3
15°	2056.7	1811.2	1291.2	812.2	502.3	355.9	309.2	296.0	290.9	289.7	289.7
17.5°	1974.7	1693.8	1093.0	600.2	365.4	297.9	282.1	273.3	271.4	270.1	270.1
20°	1901.5	1575.8	905.0	446.8	295.3	268.2	258.1	252.4	250.5	249.3	249.9
22.5°	1832.0	1471.1	728.3	337.6	260.0	244.2	234.1	228.5	224.7	221.5	222.1
25°	1770.2	1370.1	585.6	276.4	234.1	220.2	210.2	201.9	193.7	190.0	189.3
27.5°	1726.7	1281.7	456.3	236.7	210.8	195.6	183.0	172.9	162.2	156.5	155.2
30°	1690.7	1192.1	361.0	208.9	187.4	172.9	157.1	142.6	131.3	125.6	123.1
32.5°	1667.3	1106.9	284.6	186.2	167.9	150.2	132.5	118.0	105.4	99.7	98.4
35°	1663.5	1035.6	232.9	167.2	150.2	131.3	113.0	97.2	86.5	80.8	79.5
37.5°	1690.7	980.7	195.0	152.1	135.7	114.9	94.7	80.1	70.7	66.3	65.6
40°	1763.3	946.0	169.1	139.5	122.4	99.7	80.8	68.2	58.7	54.3	54.3
42.5°	1901.5	947.3	152.1	127.5	109.2	85.2	68.8	56.8	48.6	44.8	43.5
45°	2117.3	990.2	137.6	115.5	96.6	73.8	58.7	46.7	38.5	35.3	35.3
47.5°	2406.3	1075.4	125.0	103.5	85.2	63.1	49.9	37.9	30.9	27.8	27.8
50°	2784.4	1212.3	114.2	93.4	75.7	54.3	40.4	30.9	24.0	21.5	20.8
52.5°	3179.4	1381.4	101.6	84.6	65.0	46.1	32.8	24.0	18.3	16.4	15.8
55°	3615.5	1546.8	89.6	75.7	53.0	38.5	25.9	18.9	13.3	11.4	11.4
57.5°	4055.4	1709.0	75.1	63.1	41.7	28.4	20.2	13.9	8.8	6.9	6.9
60°	4427.7	1761.4	63.7	51.1	31.6	20.2	14.5	8.8	5.0	3.2	3.2
62.5°	4478.8	1584.7	53.6	39.1	22.7	13.9	7.6	5.0	1.9	1.3	1.3
65°	4201.1	1287.4	44.8	29.7	15.1	6.9	3.2	1.9	0.6	0.0	0.0
67°	3764.4	1043.8	36.6	22.1	10.7	4.4	1.9	0.6	0.0	0.0	0.0
67.5°	3652.7	995.2	35.3	20.8	9.5	3.8	1.3	0.6	0.0	0.0	0.0
70°	2866.4	745.3	25.2	12.6	5.7	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	1781.6	421.6	18.3	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0
75°	673.4	147.7	12.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	209.5	56.2	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.7	21.5	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.5	8.8	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.1	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.3	0.6	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)