

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: P193591

Luminaire Tested: **GAN-AF-03-LED-U-SL2-8030-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL2-8030-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12282 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 166
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: 28.75 FT

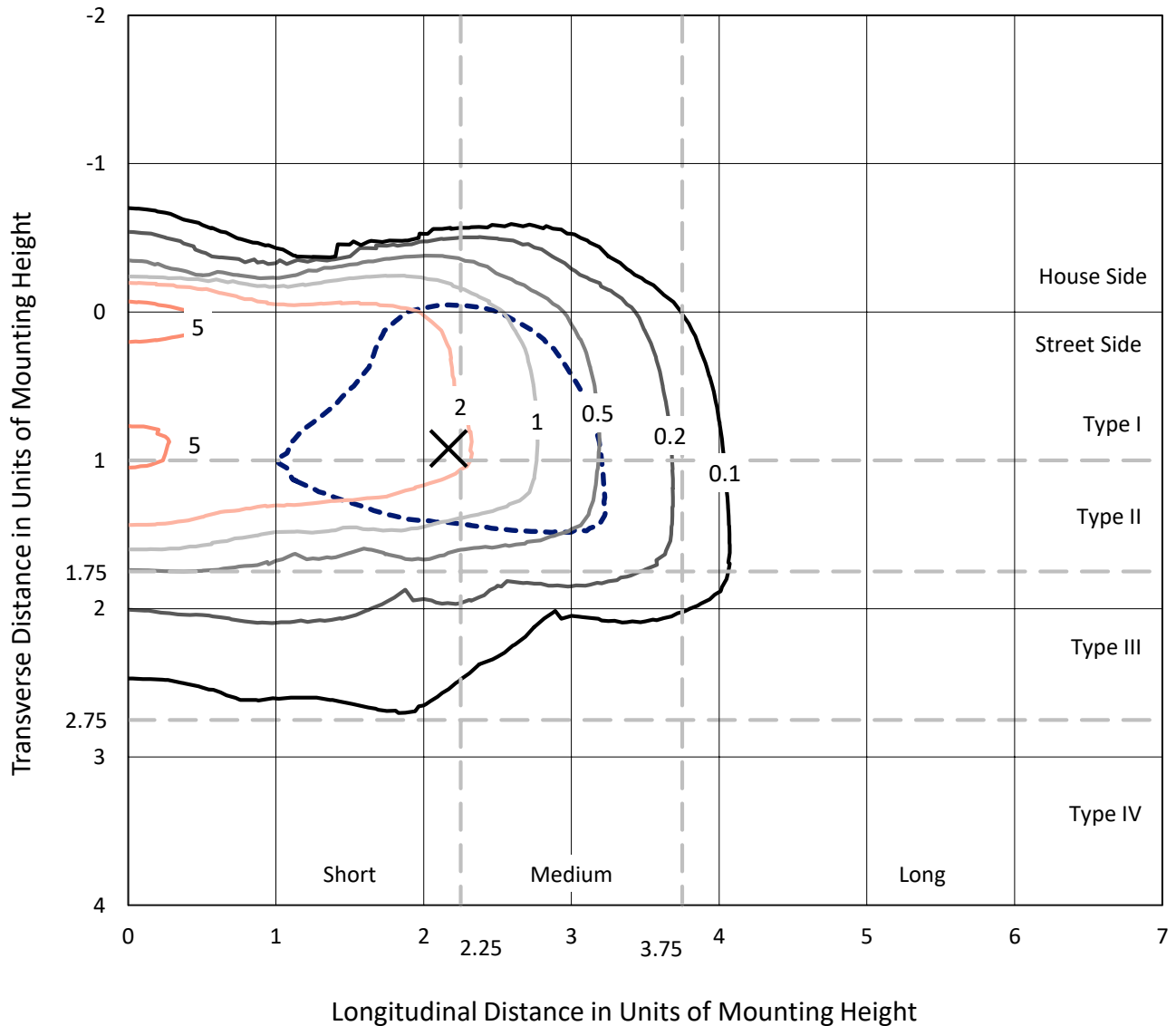


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

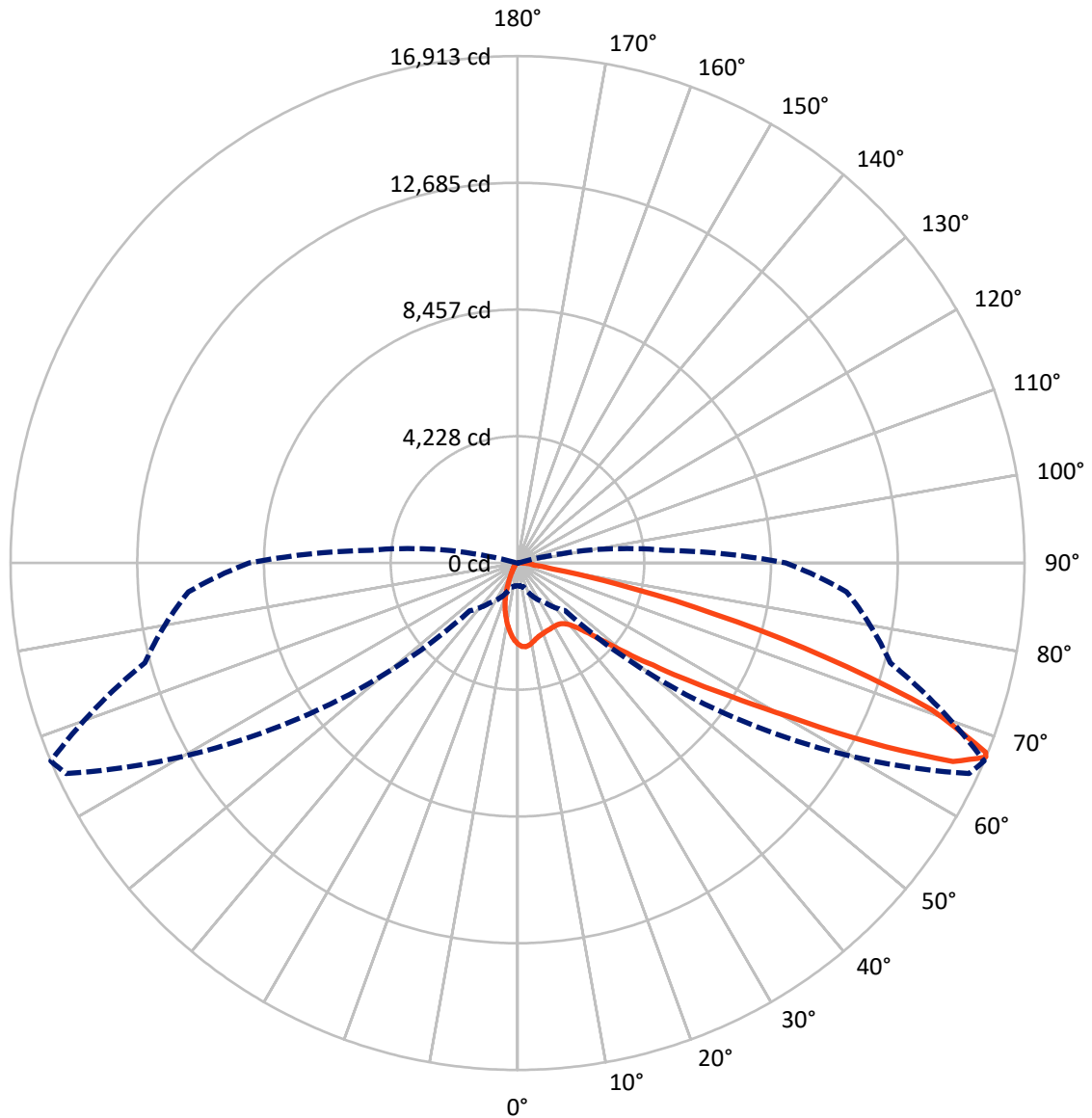


Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.2	0.0	1275.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11006.8	0.0	11006.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	12282.0	0.0	12282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.8
10°-20°	469.1	3.8
20°-30°	682.0	5.6
30°-40°	1064.0	8.7
40°-50°	1884.8	15.3
50°-60°	2982.5	24.3
60°-70°	3416.0	27.8
70°-80°	1416.9	11.5
80°-90°	146.4	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°	12282.0	100.0
0°-180°	12282.0	100.0

Coefficient of Utilization



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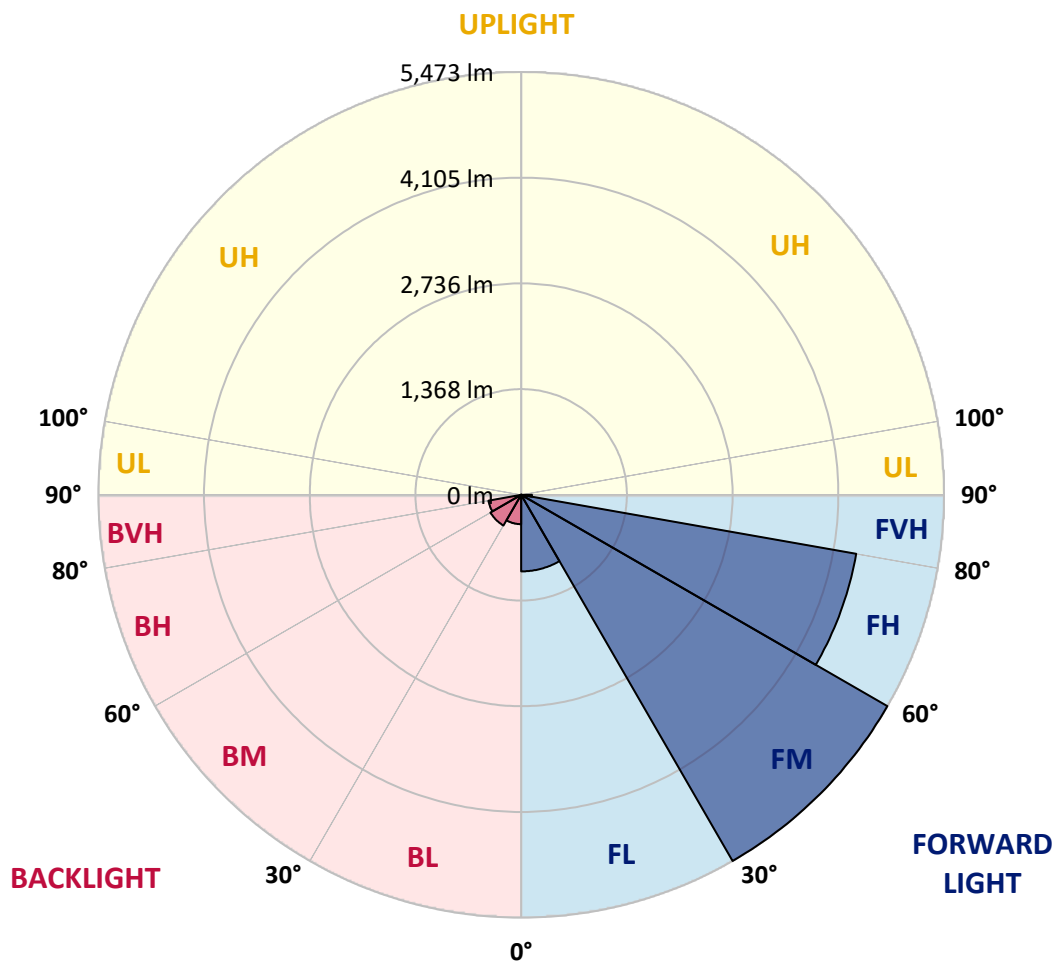
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.0	8.1			
FM (30°-60°)	5472.9	44.6			
FH (60°-80°)	4403.1	35.9			G2/5000
FVH (80°-90°)	139.8	1.1			G2/225
BL (0°-30°)	380.5	3.1	B1/500		
BM (30°-60°)	458.3	3.7	B1/1000		
BH (60°-80°)	429.8	3.5	B1/500		G1/500
BVH (80°-90°)	6.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6
2.5°	2800.3	2806.1	2805.3	2809.6	2819.7	2820.4	2810.4	2791.0	2786.7	2761.6	2717.9
5°	2582.6	2599.0	2609.1	2649.9	2695.7	2750.9	2792.5	2807.5	2805.3	2787.4	2721.5
7.5°	2334.0	2350.4	2361.9	2409.9	2470.8	2565.4	2673.5	2762.4	2770.2	2789.6	2718.7
10°	2168.5	2171.3	2187.1	2233.0	2296.7	2393.4	2522.4	2677.8	2701.5	2772.4	2711.5
12.5°	2032.4	2034.5	2055.3	2104.7	2172.8	2270.2	2405.6	2585.4	2622.0	2750.9	2710.1
15°	1935.7	1943.5	1962.2	2013.7	2086.1	2182.8	2321.8	2517.4	2561.1	2743.0	2723.0
17.5°	1903.4	1912.0	1917.8	1955.0	2020.9	2115.5	2258.0	2472.9	2522.4	2747.3	2748.0
20°	1937.1	1943.5	1930.6	1940.0	1980.8	2065.3	2204.3	2435.0	2493.7	2752.3	2780.3
22.5°	2062.5	2065.3	2030.2	1989.4	1982.2	2028.8	2162.0	2404.9	2467.9	2765.9	2818.2
25°	2277.4	2272.4	2215.0	2126.9	2043.8	2022.3	2137.0	2386.3	2455.0	2780.3	2857.6
27.5°	2536.7	2543.9	2465.1	2336.8	2178.5	2065.3	2133.4	2378.4	2449.3	2790.3	2892.0
30°	2851.9	2861.9	2771.7	2610.5	2383.4	2171.3	2166.3	2377.0	2445.7	2783.9	2894.9
32.5°	3173.6	3185.7	3114.8	2948.6	2657.1	2349.0	2240.8	2392.7	2452.9	2761.6	2878.4
35°	3510.3	3527.5	3480.2	3337.6	3028.1	2605.5	2371.9	2440.7	2486.6	2759.5	2861.9
37.5°	3975.2	3991.0	3902.1	3751.0	3477.3	2949.3	2582.6	2531.0	2566.1	2793.9	2866.2
40°	4669.4	4667.2	4438.0	4206.6	3970.9	3386.3	2878.4	2694.3	2712.2	2897.8	2919.3
42.5°	5425.9	5422.3	5083.4	4731.7	4518.9	3924.3	3267.4	2976.6	2964.4	3089.0	3056.8
45°	6009.0	6008.3	5731.8	5335.6	5178.7	4541.9	3770.3	3369.1	3350.5	3399.9	3310.4
47.5°	6257.6	6261.9	6122.9	5844.2	5910.1	5377.2	4404.3	3937.9	3910.0	3889.9	3753.8
50°	6064.2	6072.8	6084.2	6029.8	6446.7	6499.7	5254.7	4739.6	4726.0	4636.4	4423.6
52.5°	5432.3	5476.0	5610.7	5783.3	6633.0	7577.2	6587.8	5735.3	5662.3	5567.0	5332.7
55°	4367.8	4415.8	4671.5	5090.6	6355.7	8284.9	8456.2	7019.1	6897.3	6612.9	6274.8
57.5°	2890.6	2965.1	3336.2	3869.2	5550.5	8398.8	10320.2	8800.7	8376.6	7597.9	7216.8
60°	1592.5	1664.2	2066.8	2549.6	4008.9	7835.8	11573.8	11120.4	10371.0	8699.0	8360.9
62.5°	980.7	1019.4	1316.7	1765.9	2404.2	6184.5	11833.2	14035.3	13167.8	10116.7	9742.8
65°	780.9	797.3	942.8	1443.5	1723.6	3678.6	10995.7	16257.5	15968.1	11833.2	10980.0
67°	757.9	764.4	833.2	1239.3	1624.8	2255.2	9211.9	16619.3	16913.0	12871.9	11018.6
67.5°	762.9	770.1	835.3	1182.7	1621.9	2072.5	8597.3	16476.8	16847.8	12954.3	10847.4
70°	735.7	757.9	956.4	1182.0	1542.4	1722.2	5148.6	14276.0	14662.2	12036.6	9204.1
72.5°	260.8	262.2	413.4	956.4	1677.0	1740.8	2585.4	10465.6	10751.4	9207.6	6635.8
75°	154.7	131.8	137.5	272.2	1602.5	1690.7	1491.5	6687.4	6794.2	5276.1	3360.5
77.5°	106.7	93.1	96.0	120.4	610.4	1667.0	1184.9	3487.3	3373.4	1850.4	715.7
80°	60.9	53.7	57.3	105.3	222.1	1555.3	1117.6	1414.1	1205.7	313.8	197.7
82.5°	32.2	27.2	33.0	86.7	154.7	969.3	1119.7	683.4	541.6	106.0	134.7
85°	11.5	9.3	15.8	59.5	103.2	297.3	1038.0	574.5	451.3	51.6	102.4
87.5°	2.1	2.1	6.4	24.4	41.6	91.0	613.9	341.0	228.5	30.8	70.2
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°	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6	2708.6
2.5°	2700.0	2669.2	2627.7	2576.8	2516.6	2463.6	2424.2	2383.4	2374.8	2360.5	2358.3
5°	2682.1	2629.1	2526.0	2407.8	2281.7	2167.8	2075.4	1993.0	1956.4	1924.9	1921.3
7.5°	2655.6	2576.1	2400.6	2210.0	2013.0	1833.9	1682.1	1574.6	1475.7	1428.5	1421.3
10°	2624.8	2510.9	2259.5	1995.1	1722.9	1470.0	1244.4	1055.2	940.6	872.6	864.0
12.5°	2596.2	2447.2	2115.5	1772.3	1410.6	1072.4	782.3	601.8	481.4	432.7	427.0
15°	2582.6	2395.6	1980.8	1544.5	1083.9	682.7	427.7	331.0	291.6	280.1	279.4
17.5°	2581.1	2351.9	1849.0	1308.8	759.4	396.9	278.7	254.3	246.4	243.6	243.6
20°	2580.4	2310.3	1717.2	1064.5	482.1	264.3	232.1	226.4	220.6	217.1	217.1
22.5°	2588.3	2273.1	1579.6	815.2	303.7	214.2	204.2	198.4	191.3	186.3	185.5
25°	2596.2	2244.4	1439.2	580.3	219.9	186.3	176.2	168.3	158.3	151.9	151.2
27.5°	2597.6	2208.6	1288.8	388.3	184.1	162.6	149.7	137.5	126.1	119.6	118.9
30°	2576.1	2148.4	1121.9	262.2	162.6	141.1	123.9	111.0	100.3	95.3	95.3
32.5°	2533.8	2073.9	938.5	197.7	144.7	121.1	102.4	90.3	83.1	81.0	80.2
35°	2495.9	1993.7	750.1	167.6	129.7	102.4	83.8	75.9	71.6	70.9	70.2
37.5°	2473.7	1929.2	573.1	151.9	115.3	86.0	70.9	65.2	63.0	61.6	62.3
40°	2490.9	1875.5	423.4	139.0	101.0	71.6	60.2	57.3	55.2	54.4	54.4
42.5°	2566.1	1866.2	314.5	127.5	87.4	59.5	52.3	50.1	48.7	48.0	48.7
45°	2763.8	1923.5	244.3	116.8	73.8	50.1	44.4	43.7	43.0	43.0	43.0
47.5°	3061.1	2041.7	203.5	104.6	61.6	43.0	38.7	38.0	37.3	38.0	38.0
50°	3564.7	2258.0	182.0	92.4	50.9	36.5	33.0	33.0	33.0	33.0	33.7
52.5°	4330.5	2683.6	167.6	80.2	41.6	30.8	27.9	27.9	28.7	28.7	29.4
55°	5183.7	3248.1	154.7	68.1	35.1	25.8	22.9	23.6	24.4	25.1	25.1
57.5°	6109.3	3873.5	144.0	55.9	30.1	20.8	19.3	20.1	20.8	22.2	22.2
60°	7226.1	4550.4	128.2	43.7	25.1	16.5	15.0	16.5	18.6	20.1	20.8
62.5°	8452.6	5205.2	108.2	34.4	20.8	12.9	12.2	15.0	17.9	19.3	20.1
65°	9290.7	5410.8	83.1	27.9	15.8	9.3	10.0	13.6	17.2	19.3	19.3
67°	8951.2	4905.8	68.1	23.6	12.9	7.2	9.3	13.6	17.2	18.6	19.3
67.5°	8715.5	4708.1	65.2	22.9	12.2	7.2	9.3	13.6	17.2	19.3	19.3
70°	7091.5	3536.8	54.4	17.2	10.0	6.4	7.9	12.9	16.5	18.6	18.6
72.5°	4927.3	2180.7	48.7	12.2	8.6	5.7	7.2	12.2	15.8	17.9	18.6
75°	2342.6	789.5	41.6	9.3	7.9	5.0	6.4	12.2	15.8	17.9	17.9
77.5°	477.8	183.4	33.7	7.9	6.4	5.0	5.7	11.5	15.0	17.2	17.2
80°	156.9	70.9	25.1	7.2	6.4	5.0	5.7	10.7	15.0	16.5	17.2
82.5°	113.2	35.8	16.5	7.2	6.4	5.0	5.0	10.7	14.3	16.5	16.5
85°	86.7	25.1	10.7	7.2	6.4	5.0	5.0	10.0	13.6	15.8	15.8
87.5°	57.3	10.0	8.6	7.2	6.4	5.0	5.0	10.0	12.9	15.0	15.8
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)