

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: P322878

Luminaire Tested: **GAN-SA4B-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16709 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

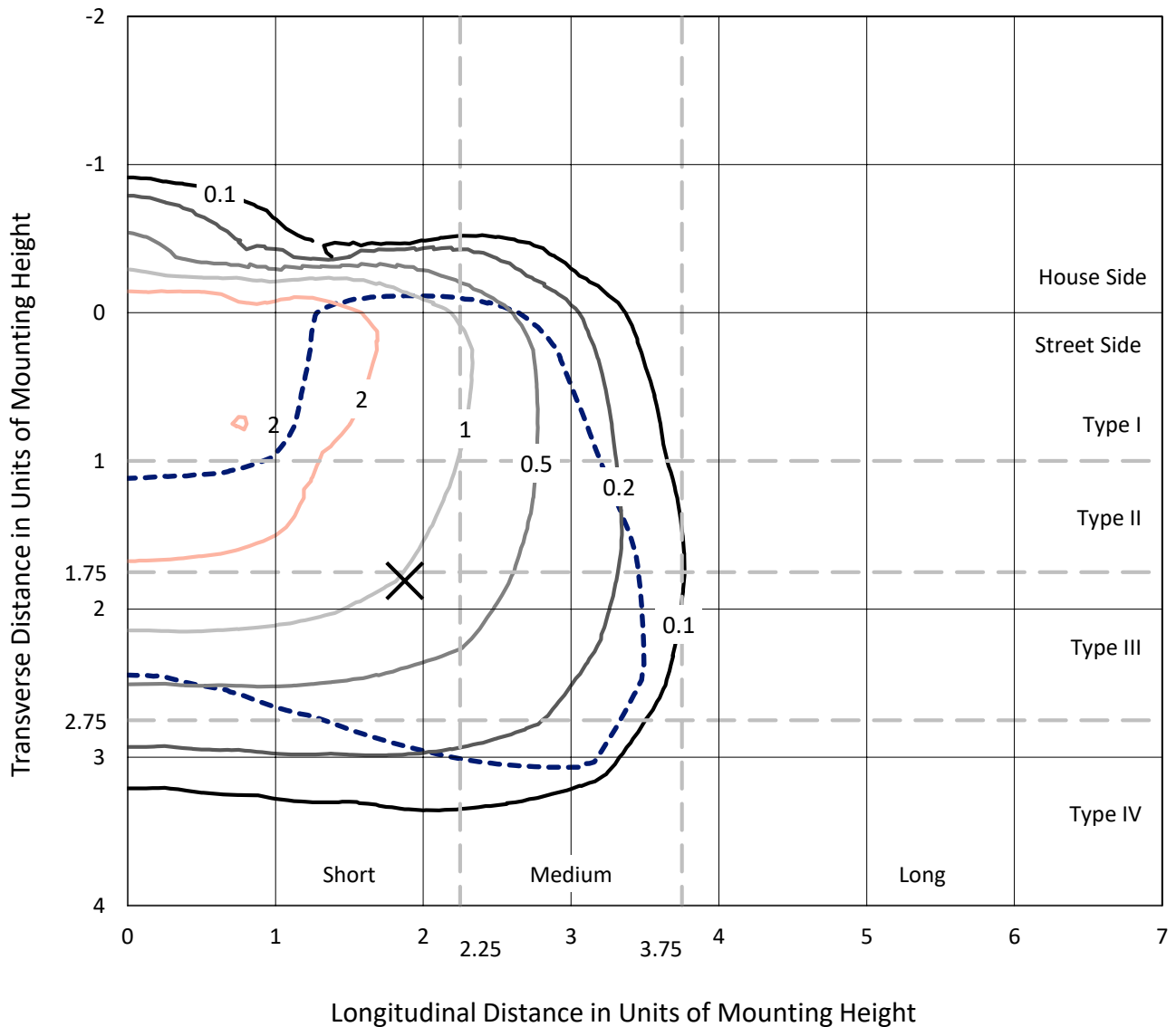
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

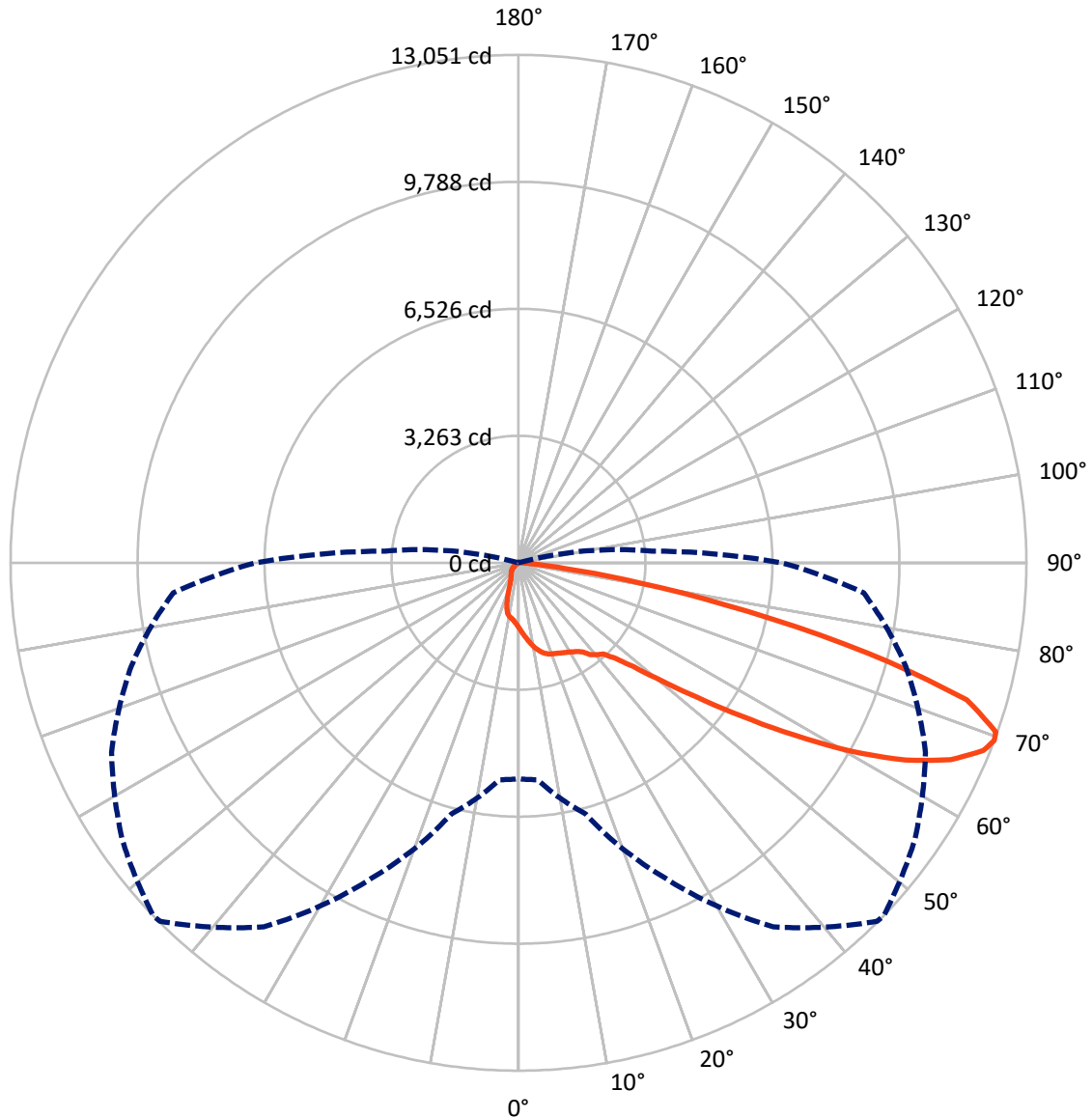
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1714.8	0.0	1714.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14994.2	0.0	14994.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	16709.0	0.0	16709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	1.0
10°-20°	505.5	3.0
20°-30°	795.0	4.8
30°-40°	1140.1	6.8
40°-50°	1970.5	11.8
50°-60°	3893.0	23.3
60°-70°	5440.8	32.6
70°-80°	2628.5	15.7
80°-90°	168.9	1.0
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°	16709.0	100.0
0°-180°	16709.0	100.0

Coefficient of Utilization

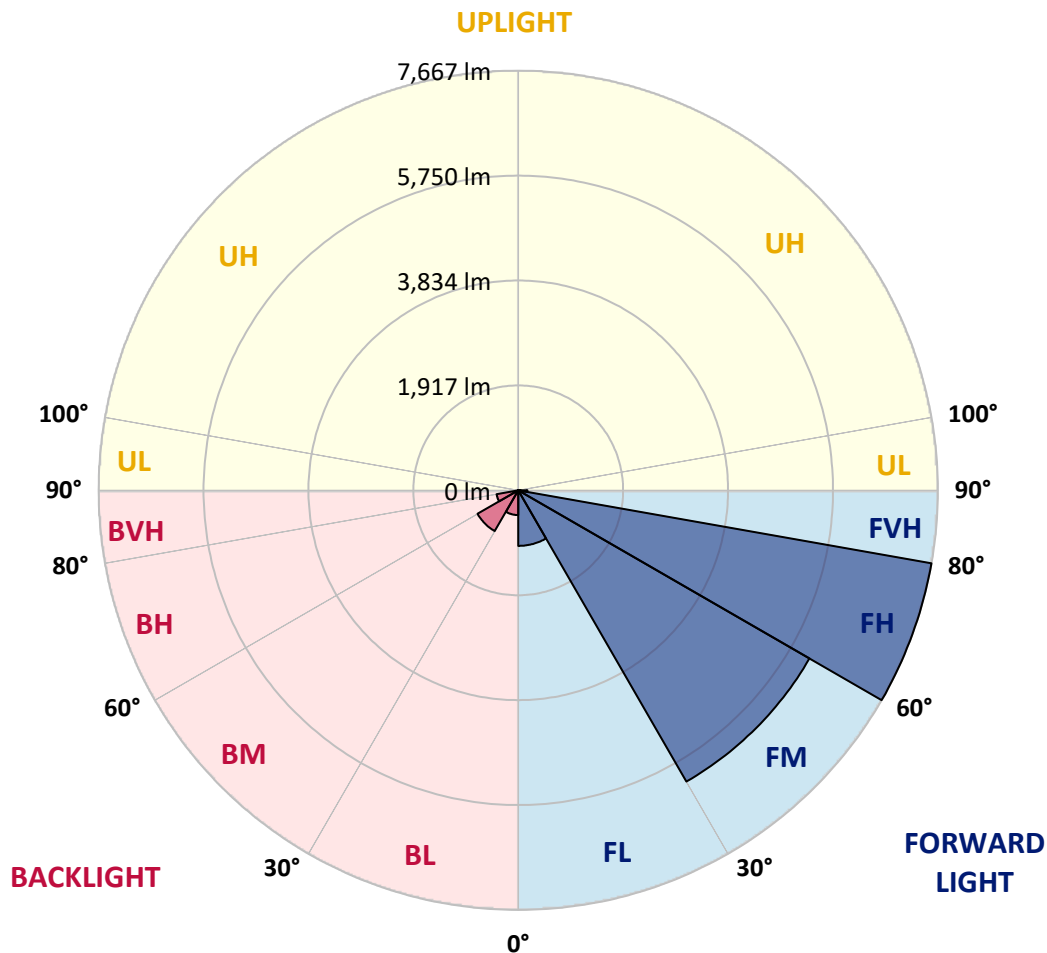


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.3	6.1			
FM (30°-60°)	6144.3	36.8			
FH (60°-80°)	7667.1	45.9			G4/12000
FVH (80°-90°)	167.5	1.0			G2/225
BL (0°-30°)	452.0	2.7	B1/500		
BM (30°-60°)	859.3	5.1	B1/1000		
BH (60°-80°)	402.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.4	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2
2.5°	1859.9	1857.5	1846.5	1841.8	1815.2	1799.5	1793.3	1773.7	1745.5	1717.3	1685.9
5°	2071.4	2070.6	2050.2	2030.6	1980.5	1933.5	1924.9	1879.4	1816.0	1756.4	1696.9
7.5°	2287.6	2277.4	2257.0	2219.4	2146.6	2071.4	2064.3	2000.1	1910.0	1823.8	1738.4
10°	2470.9	2464.7	2438.0	2380.8	2295.4	2210.0	2201.4	2122.3	2020.5	1914.7	1805.8
12.5°	2613.5	2608.8	2573.6	2502.3	2411.4	2322.9	2311.1	2240.6	2131.7	2013.4	1884.9
15°	2700.5	2698.1	2655.0	2579.0	2489.7	2412.9	2402.8	2340.9	2239.8	2116.0	1971.1
17.5°	2720.8	2721.6	2677.0	2600.2	2526.5	2471.7	2463.9	2416.9	2332.3	2209.3	2057.3
20°	2675.4	2684.8	2644.8	2578.3	2532.8	2503.8	2497.6	2469.4	2398.1	2282.1	2126.2
22.5°	2611.2	2615.9	2588.4	2543.8	2525.0	2530.5	2527.3	2511.7	2451.3	2344.8	2194.4
25°	2572.0	2572.0	2555.5	2517.9	2530.5	2564.2	2564.9	2561.8	2514.0	2421.6	2277.4
27.5°	2570.4	2565.7	2546.9	2518.7	2553.2	2604.9	2608.0	2629.2	2599.4	2514.8	2380.8
30°	2633.1	2627.6	2587.7	2550.8	2594.7	2650.3	2658.2	2704.4	2689.5	2615.9	2496.0
32.5°	2779.6	2760.0	2671.5	2611.2	2644.1	2710.7	2720.8	2794.5	2818.0	2740.4	2607.2
35°	2980.1	2918.3	2790.6	2725.5	2728.7	2798.4	2807.8	2915.9	2985.6	2854.8	2693.4
37.5°	3256.7	3226.1	3018.5	2844.6	2858.7	2964.5	2991.9	3109.4	3089.8	2917.5	2791.3
40°	3863.1	3815.3	3594.4	3178.4	2983.3	3099.2	3107.8	3170.5	3172.1	3059.3	2995.0
42.5°	4688.8	4669.2	4436.5	3783.9	3228.5	3189.3	3205.0	3310.8	3429.1	3358.5	3355.4
45°	5603.1	5592.9	5346.1	4587.7	3724.4	3484.7	3504.3	3646.1	3872.5	3888.1	3987.6
47.5°	6338.7	6334.0	6192.2	5484.8	4483.5	3985.3	3991.6	4142.0	4539.9	4736.6	4895.6
50°	7009.3	7032.0	6920.0	6455.4	5517.7	4769.5	4754.6	4854.9	5494.2	5816.1	6013.6
52.5°	7941.6	7973.7	7659.5	7361.1	6602.7	5742.5	5730.8	5835.7	6641.1	6882.4	6917.6
55°	8765.0	8710.1	8461.8	8375.6	7925.9	6944.3	6941.1	7033.6	7750.4	7853.1	7918.1
57.5°	9128.5	9107.3	9227.2	9424.6	9311.8	8364.6	8357.6	8287.1	8743.0	8754.0	8953.8
60°	9358.0	9383.9	9751.3	10360.0	10641.3	9893.1	9847.7	9417.6	9691.0	9666.7	9880.6
62.5°	9185.7	9236.6	9897.8	10912.3	11636.2	11227.3	11163.0	10453.2	10501.0	10417.2	10616.2
65°	8270.6	8349.7	9433.2	10808.1	12129.8	12270.0	12205.0	11367.5	11144.2	11006.3	10895.9
67.5°	6715.5	6762.5	7893.8	9901.7	11907.3	12892.0	12878.7	12168.9	11629.9	10906.8	10049.8
69°	5549.8	5596.0	6685.0	8947.5	11417.6	13025.2	13051.1	12425.9	11537.5	10302.0	8904.4
70°	4700.6	4749.9	5764.4	8129.6	10849.7	12963.3	13009.6	12401.6	11272.7	9601.7	7899.3
72.5°	2465.4	2507.7	3548.9	5600.7	8844.9	11903.4	12043.6	11353.4	9555.4	6973.3	4670.8
75°	774.8	799.1	1385.9	2927.7	6055.9	9255.4	9287.5	8906.0	6785.2	3835.6	1945.2
77.5°	295.4	288.3	461.4	1078.8	3061.6	5827.9	6024.5	5565.5	3560.7	1356.1	448.9
80°	159.0	159.8	239.7	446.6	1309.9	2995.0	3161.1	2697.3	1265.2	423.0	103.4
82.5°	68.9	72.1	134.7	236.6	601.7	1104.6	1187.7	988.7	483.4	284.4	38.4
85°	14.9	16.5	65.0	128.5	245.2	310.2	325.1	320.4	307.9	220.9	14.9
87.5°	0.0	0.0	29.0	46.2	61.9	70.5	61.9	80.7	170.0	148.9	7.8
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°	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2	1674.2
2.5°	1675.7	1661.6	1637.4	1610.7	1591.9	1572.3	1556.7	1549.6	1541.8	1536.3	1543.3
5°	1672.6	1645.2	1598.2	1552.7	1519.8	1493.2	1471.3	1462.7	1454.0	1447.8	1447.0
7.5°	1700.0	1661.6	1589.6	1523.0	1472.1	1436.0	1406.2	1393.7	1383.5	1378.8	1374.9
10°	1752.5	1703.2	1606.8	1519.8	1454.0	1392.9	1328.7	1279.3	1247.2	1232.3	1226.8
12.5°	1820.7	1758.8	1639.7	1536.3	1440.7	1323.2	1186.9	1069.4	993.4	968.3	953.4
15°	1900.6	1823.8	1682.8	1557.4	1392.1	1177.5	946.4	792.8	722.3	708.2	692.5
17.5°	1977.4	1892.8	1734.5	1561.4	1285.6	940.9	693.3	589.1	561.7	571.1	573.5
20°	2044.7	1960.9	1785.4	1526.9	1092.1	705.9	536.6	510.8	521.0	539.0	542.1
22.5°	2112.9	2026.7	1832.4	1436.0	844.5	535.9	483.4	489.6	499.8	517.8	521.0
25°	2195.9	2106.6	1876.3	1269.1	633.8	456.0	459.1	468.5	478.7	495.1	496.7
27.5°	2291.5	2207.7	1905.3	1052.1	470.1	419.1	429.3	443.4	453.6	469.3	472.4
30°	2418.4	2340.9	1914.7	827.3	394.1	386.2	390.9	408.2	423.0	437.2	439.5
32.5°	2537.5	2472.5	1883.4	624.4	365.1	355.7	355.7	365.9	383.1	396.4	399.5
35°	2647.2	2604.9	1783.1	456.7	343.1	327.5	319.6	319.6	330.6	341.6	344.7
37.5°	2792.1	2790.6	1620.9	364.3	322.0	304.0	287.5	275.0	271.1	273.4	275.0
40°	3040.5	3042.8	1409.4	326.7	304.0	279.7	254.6	231.9	210.7	203.7	202.9
42.5°	3428.3	3393.0	1187.7	308.7	288.3	254.6	217.0	186.5	153.6	143.4	142.6
45°	4044.0	3834.9	952.6	292.2	271.8	226.4	179.4	137.9	111.2	103.4	103.4
47.5°	4941.1	4415.4	738.0	274.2	249.9	194.3	135.5	99.5	81.5	77.6	78.3
50°	5868.6	4984.2	565.6	251.5	223.3	160.6	100.3	72.1	61.9	61.9	62.7
52.5°	6691.2	5400.9	441.1	227.2	190.4	126.1	76.0	56.4	51.7	50.9	51.7
55°	7461.3	5669.6	337.7	199.0	151.2	94.0	58.0	46.2	43.1	41.5	40.7
57.5°	8204.0	5802.8	253.0	160.6	109.7	68.2	46.2	39.2	36.0	33.7	32.9
60°	8698.4	5694.7	173.9	118.3	76.0	49.4	38.4	33.7	29.8	27.4	26.6
62.5°	8977.3	5399.4	112.0	85.4	54.1	36.8	30.6	28.2	22.7	20.4	20.4
65°	8864.5	4912.1	78.3	61.1	39.2	27.4	22.7	22.7	16.5	13.3	12.5
67.5°	7855.4	4149.8	59.5	45.4	28.2	20.4	17.2	19.6	10.2	6.3	6.3
69°	6758.6	3439.2	50.9	37.6	23.5	16.5	14.9	18.0	7.1	4.7	3.9
70°	5874.1	2966.8	46.2	32.9	19.6	14.1	13.3	17.2	7.1	3.9	3.1
72.5°	3514.4	1654.6	35.3	23.5	12.5	11.0	11.0	19.6	7.1	3.9	3.1
75°	1420.3	582.9	25.9	16.5	9.4	9.4	13.3	25.1	6.3	3.1	2.4
77.5°	322.0	127.7	14.9	10.2	6.3	9.4	15.7	19.6	3.9	1.6	0.0
80°	78.3	31.3	9.4	6.3	3.9	7.1	11.8	11.0	0.8	0.0	0.0
82.5°	25.9	11.0	3.9	3.1	0.8	2.4	5.5	3.1	0.0	0.0	0.0
85°	11.0	6.3	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.1	2.4	0.0	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)