

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: P322949

Luminaire Tested: **GAN-SA5A-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322949
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-SA5A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA 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: 16882 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

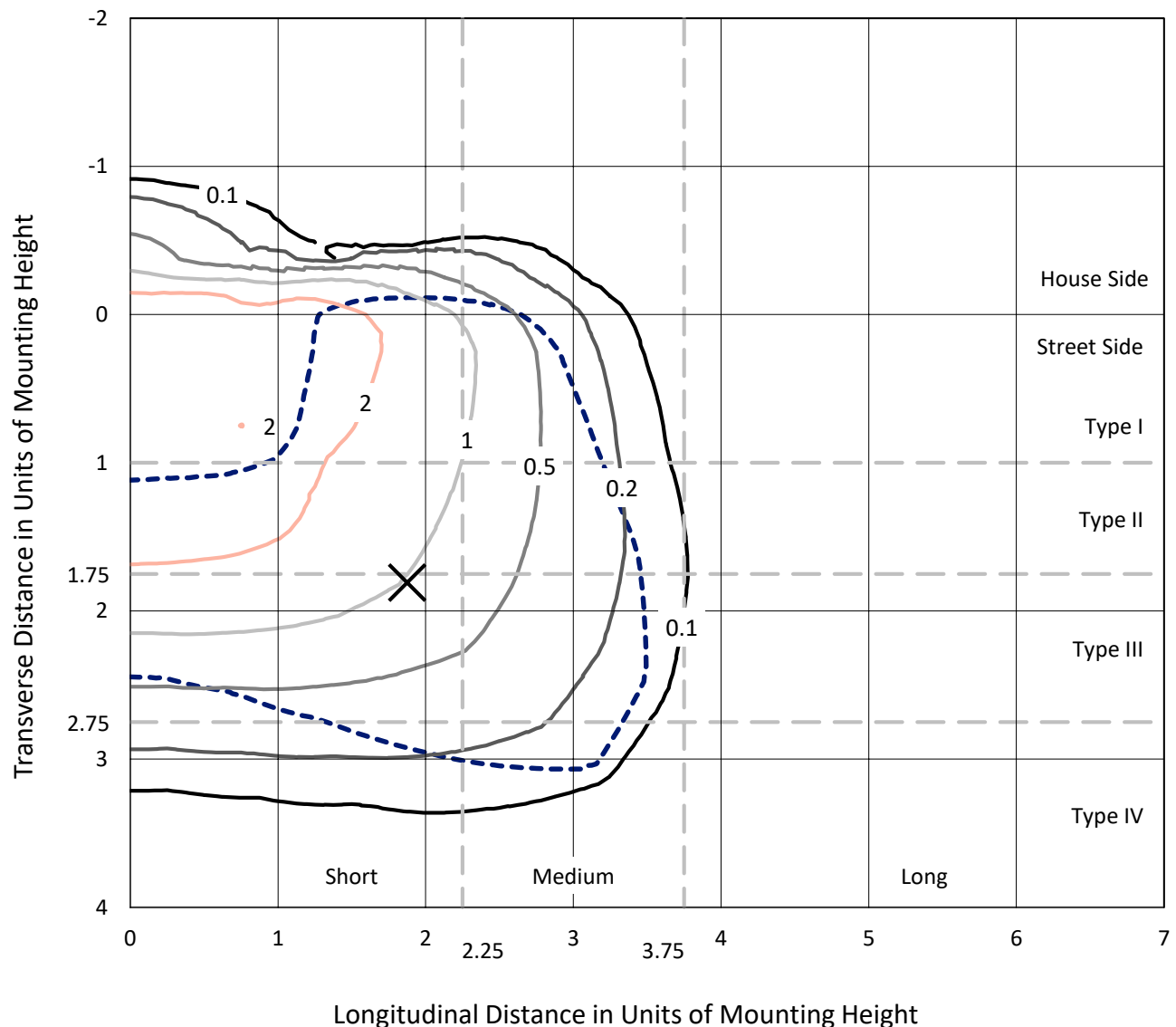
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

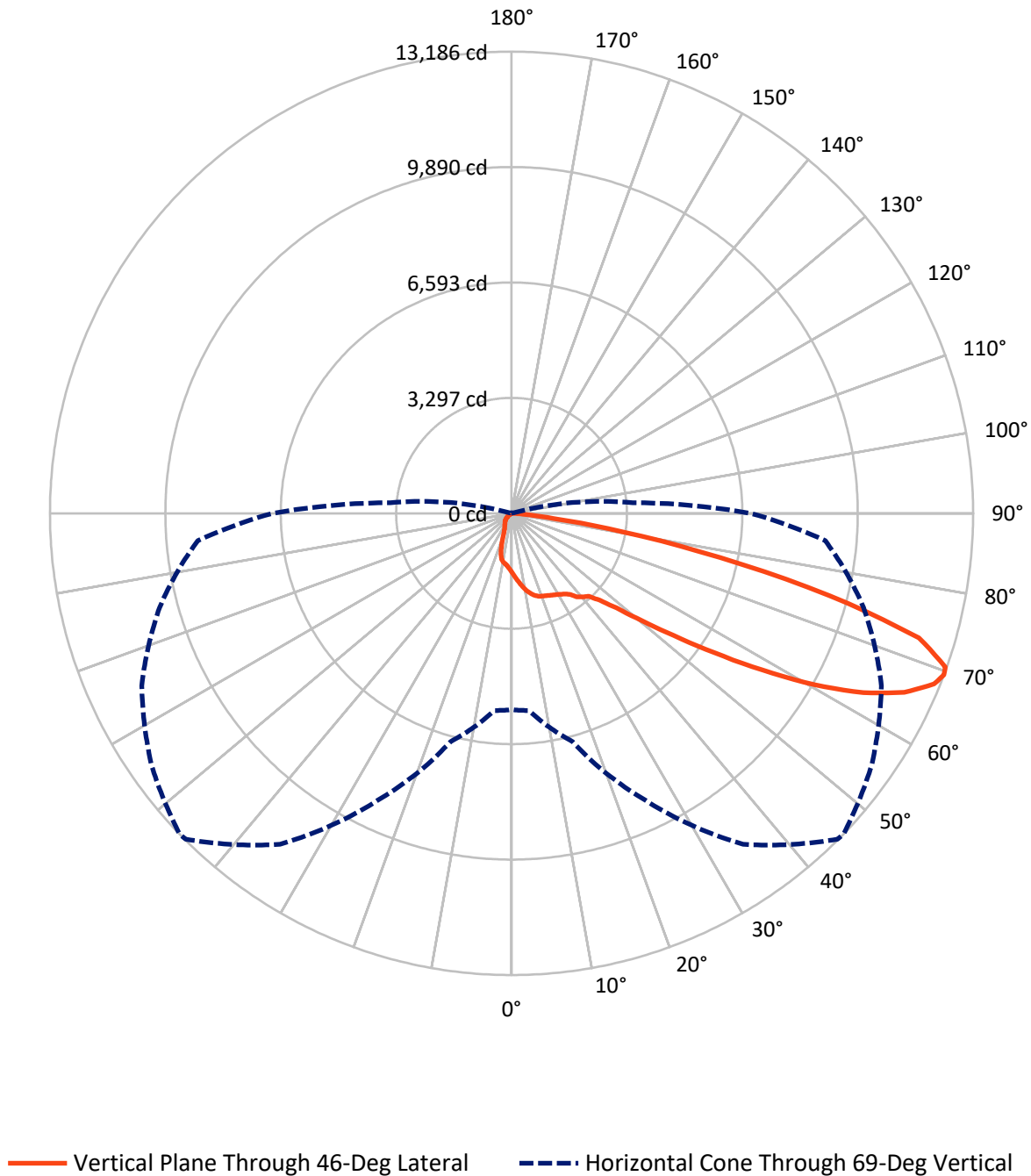
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.6	0.0	1732.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15149.5	0.0	15149.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	16882.0	0.0	16882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	1.0
10°-20°	510.8	3.0
20°-30°	803.3	4.8
30°-40°	1151.9	6.8
40°-50°	1990.9	11.8
50°-60°	3933.3	23.3
60°-70°	5497.1	32.6
70°-80°	2655.7	15.7
80°-90°	170.7	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°	16882.0	100.0
0°-180°	16882.0	100.0

Coefficient of Utilization



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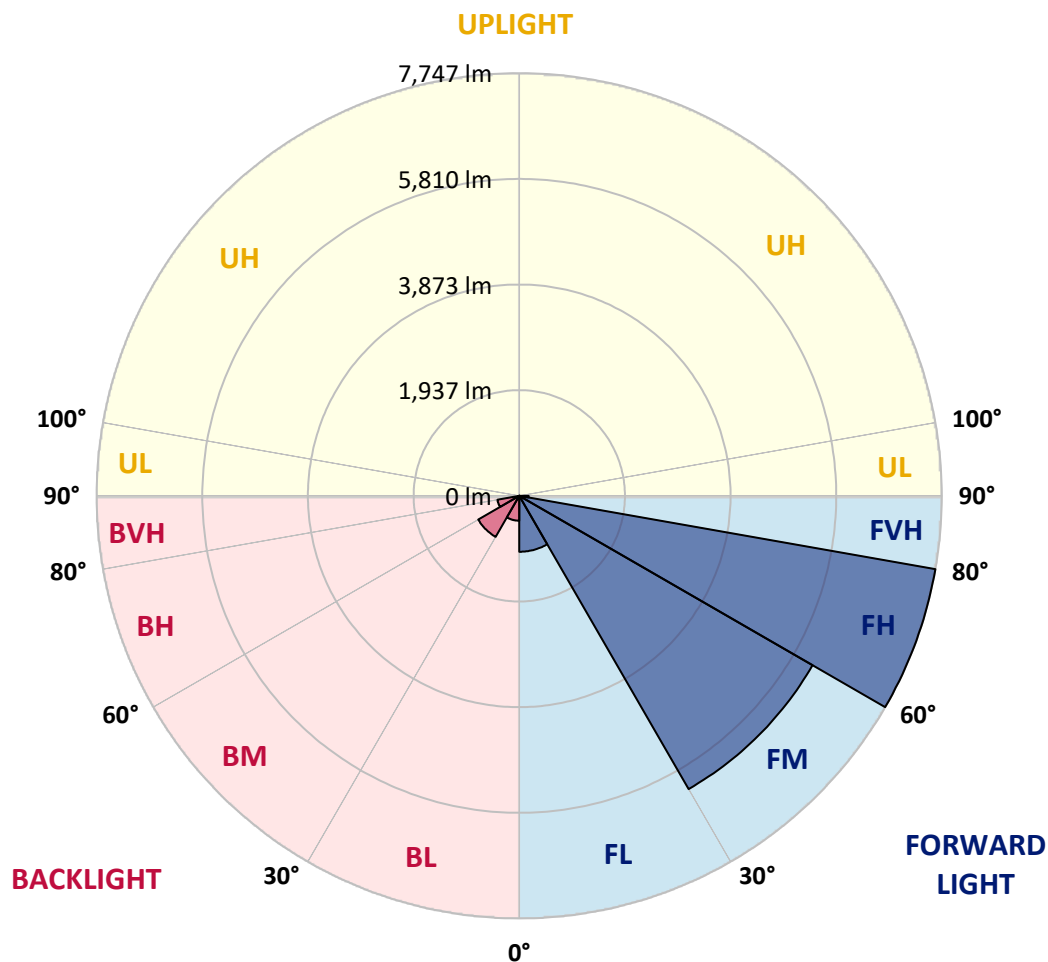
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1025.8	6.1			
FM	(30°-60°)	6207.9	36.8			
FH	(60°-80°)	7746.5	45.9			G4/12000
FVH	(80°-90°)	169.3	1.0			G2/225
BL	(0°-30°)	456.6	2.7	B1/500		
BM	(30°-60°)	868.2	5.1	B1/1000		
BH	(60°-80°)	406.3	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°	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5
2.5°	1879.1	1876.7	1865.7	1860.9	1834.0	1818.2	1811.8	1792.0	1763.5	1735.0	1703.4
5°	2092.8	2092.0	2071.5	2051.7	2001.0	1953.5	1944.8	1898.9	1834.8	1774.6	1714.5
7.5°	2311.3	2301.0	2280.4	2242.4	2168.8	2092.8	2085.7	2020.8	1929.8	1842.7	1756.4
10°	2496.5	2490.2	2463.3	2405.5	2319.2	2232.9	2224.2	2144.3	2041.4	1934.5	1824.5
12.5°	2640.6	2635.8	2600.2	2528.2	2436.3	2346.9	2335.0	2263.8	2153.8	2034.2	1904.4
15°	2728.4	2726.1	2682.5	2605.7	2515.5	2437.9	2427.6	2365.1	2263.0	2137.9	1991.5
17.5°	2749.0	2749.8	2704.7	2627.1	2552.7	2497.3	2489.4	2441.9	2356.4	2232.1	2078.6
20°	2703.1	2712.6	2672.2	2604.9	2559.0	2529.8	2523.4	2494.9	2422.9	2305.7	2148.2
22.5°	2638.2	2642.9	2615.2	2570.1	2551.1	2556.7	2553.5	2537.7	2476.7	2369.1	2217.1
25°	2598.6	2598.6	2582.0	2544.0	2556.7	2590.7	2591.5	2588.3	2540.0	2446.6	2301.0
27.5°	2597.0	2592.3	2573.3	2544.8	2579.6	2631.9	2635.0	2656.4	2626.3	2540.8	2405.5
30°	2660.4	2654.8	2614.4	2577.2	2621.6	2677.8	2685.7	2732.4	2717.3	2642.9	2521.8
32.5°	2808.4	2788.6	2699.1	2638.2	2671.4	2738.7	2749.0	2823.4	2847.2	2768.8	2634.2
35°	3011.0	2948.5	2819.5	2753.8	2756.9	2827.4	2836.9	2946.1	3016.5	2884.4	2721.3
37.5°	3290.4	3259.5	3049.8	2874.1	2888.3	2995.2	3022.9	3141.6	3121.8	2947.7	2820.2
40°	3903.1	3854.8	3631.6	3211.3	3014.2	3131.3	3140.0	3203.3	3204.9	3090.9	3026.0
42.5°	4737.3	4717.6	4482.5	3823.1	3261.9	3222.3	3238.2	3345.0	3464.6	3393.3	3390.2
45°	5661.1	5650.8	5401.4	4635.2	3763.0	3520.8	3540.5	3683.8	3912.6	3928.4	4028.9
47.5°	6404.3	6399.6	6256.3	5541.5	4530.0	4026.5	4032.9	4184.9	4587.0	4785.6	4946.3
50°	7081.9	7104.8	6991.6	6522.3	5574.8	4818.9	4803.8	4905.2	5551.0	5876.4	6075.8
52.5°	8023.8	8056.3	7738.9	7437.3	6671.1	5802.0	5790.1	5896.2	6709.9	6953.6	6989.3
55°	8855.7	8800.3	8549.4	8462.3	8008.0	7016.2	7013.0	7106.4	7830.7	7934.4	8000.1
57.5°	9223.0	9201.6	9322.7	9522.2	9408.2	8451.2	8444.1	8372.9	8833.5	8844.6	9046.5
60°	9454.9	9481.0	9852.3	10467.3	10751.4	9995.5	9949.6	9515.1	9791.3	9766.8	9982.9
62.5°	9280.8	9332.2	10000.3	11025.3	11756.7	11343.5	11278.6	10561.5	10609.8	10525.1	10726.1
65°	8356.2	8436.2	9530.9	10920.0	12255.4	12397.0	12331.3	11485.2	11259.6	11120.3	11008.7
67.5°	6785.1	6832.5	7975.5	10004.2	12030.6	13025.5	13012.1	12294.9	11750.4	11019.8	10153.8
69°	5607.2	5653.9	6754.2	9040.1	11535.9	13160.1	13186.2	12554.6	11657.0	10408.7	8996.6
70°	4749.2	4799.1	5824.1	8213.8	10962.0	13097.6	13144.3	12530.0	11389.4	9701.1	7981.1
72.5°	2491.0	2533.7	3585.7	5658.7	8936.4	12026.6	12168.3	11470.9	9654.4	7045.5	4719.1
75°	782.8	807.4	1400.2	2958.0	6118.6	9351.2	9383.7	8998.2	6855.5	3875.4	1965.4
77.5°	298.4	291.3	466.2	1089.9	3093.3	5888.2	6086.9	5623.1	3597.5	1370.1	453.6
80°	160.7	161.5	242.2	451.2	1323.4	3026.0	3193.8	2725.3	1278.3	427.4	104.5
82.5°	69.7	72.8	136.1	239.0	607.9	1116.1	1200.0	998.9	488.4	287.3	38.8
85°	15.0	16.6	65.7	129.8	247.8	313.4	328.5	323.7	311.1	223.2	15.0
87.5°	0.0	0.0	29.3	46.7	62.5	71.2	62.5	81.5	171.8	150.4	7.9
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°	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5	1691.5
2.5°	1693.1	1678.8	1654.3	1627.4	1608.4	1588.6	1572.8	1565.7	1557.7	1552.2	1559.3
5°	1689.9	1662.2	1614.7	1568.8	1535.6	1508.7	1486.5	1477.8	1469.1	1462.8	1462.0
7.5°	1717.6	1678.8	1606.0	1538.7	1487.3	1450.9	1420.8	1408.1	1397.9	1393.1	1389.1
10°	1770.7	1720.8	1623.4	1535.6	1469.1	1407.4	1342.4	1292.6	1260.1	1245.1	1239.5
12.5°	1839.5	1777.0	1656.7	1552.2	1455.6	1336.9	1199.2	1080.4	1003.7	978.3	963.3
15°	1920.3	1842.7	1700.2	1573.6	1406.6	1189.7	956.2	801.0	729.8	715.5	699.7
17.5°	1997.8	1912.4	1752.5	1577.5	1298.9	950.6	700.5	595.2	567.5	577.0	579.4
20°	2065.9	1981.2	1803.9	1542.7	1103.4	713.2	542.2	516.1	526.4	544.6	547.7
22.5°	2134.8	2047.7	1851.4	1450.9	853.3	541.4	488.4	494.7	505.0	523.2	526.4
25°	2218.7	2128.4	1895.7	1282.3	640.4	460.7	463.8	473.3	483.6	500.3	501.8
27.5°	2315.2	2230.5	1925.0	1063.0	474.9	423.5	433.8	448.0	458.3	474.1	477.3
30°	2443.5	2365.1	1934.5	835.9	398.1	390.2	395.0	412.4	427.4	441.7	444.1
32.5°	2563.8	2498.1	1902.9	630.9	368.9	359.4	359.4	369.6	387.1	400.5	403.7
35°	2674.6	2631.9	1801.5	461.5	346.7	330.9	322.9	322.9	334.0	345.1	348.3
37.5°	2821.0	2819.5	1637.7	368.1	325.3	307.1	290.5	277.8	273.9	276.2	277.8
40°	3072.0	3074.3	1424.0	330.1	307.1	282.6	257.2	234.3	212.9	205.8	205.0
42.5°	3463.8	3428.1	1200.0	311.9	291.3	257.2	219.3	188.4	155.1	144.9	144.1
45°	4085.9	3874.6	962.5	295.2	274.7	228.8	181.3	139.3	112.4	104.5	104.5
47.5°	4992.2	4461.1	745.6	277.0	252.5	196.3	136.9	100.5	82.3	78.4	79.2
50°	5929.4	5035.8	571.5	254.1	225.6	162.3	101.3	72.8	62.5	62.5	63.3
52.5°	6760.5	5456.9	445.6	229.5	192.3	127.4	76.8	57.0	52.2	51.4	52.2
55°	7538.6	5728.3	341.2	201.1	152.8	95.0	58.6	46.7	43.5	42.0	41.2
57.5°	8289.0	5862.9	255.7	162.3	110.8	68.9	46.7	39.6	36.4	34.0	33.2
60°	8788.4	5753.7	175.7	119.5	76.8	49.9	38.8	34.0	30.1	27.7	26.9
62.5°	9070.2	5455.3	113.2	86.3	54.6	37.2	30.9	28.5	23.0	20.6	20.6
65°	8956.2	4962.9	79.2	61.7	39.6	27.7	23.0	23.0	16.6	13.5	12.7
67.5°	7936.7	4192.8	60.2	45.9	28.5	20.6	17.4	19.8	10.3	6.3	6.3
69°	6828.6	3474.8	51.4	38.0	23.7	16.6	15.0	18.2	7.1	4.7	4.0
70°	5934.9	2997.5	46.7	33.2	19.8	14.2	13.5	17.4	7.1	4.0	3.2
72.5°	3550.8	1671.7	35.6	23.7	12.7	11.1	11.1	19.8	7.1	4.0	3.2
75°	1435.1	588.9	26.1	16.6	9.5	9.5	13.5	25.3	6.3	3.2	2.4
77.5°	325.3	129.0	15.0	10.3	6.3	9.5	15.8	19.8	4.0	1.6	0.0
80°	79.2	31.7	9.5	6.3	4.0	7.1	11.9	11.1	0.8	0.0	0.0
82.5°	26.1	11.1	4.0	3.2	0.8	2.4	5.5	3.2	0.0	0.0	0.0
85°	11.1	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)