

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: P321627

Luminaire Tested: **GAN-SA3A-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10943 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

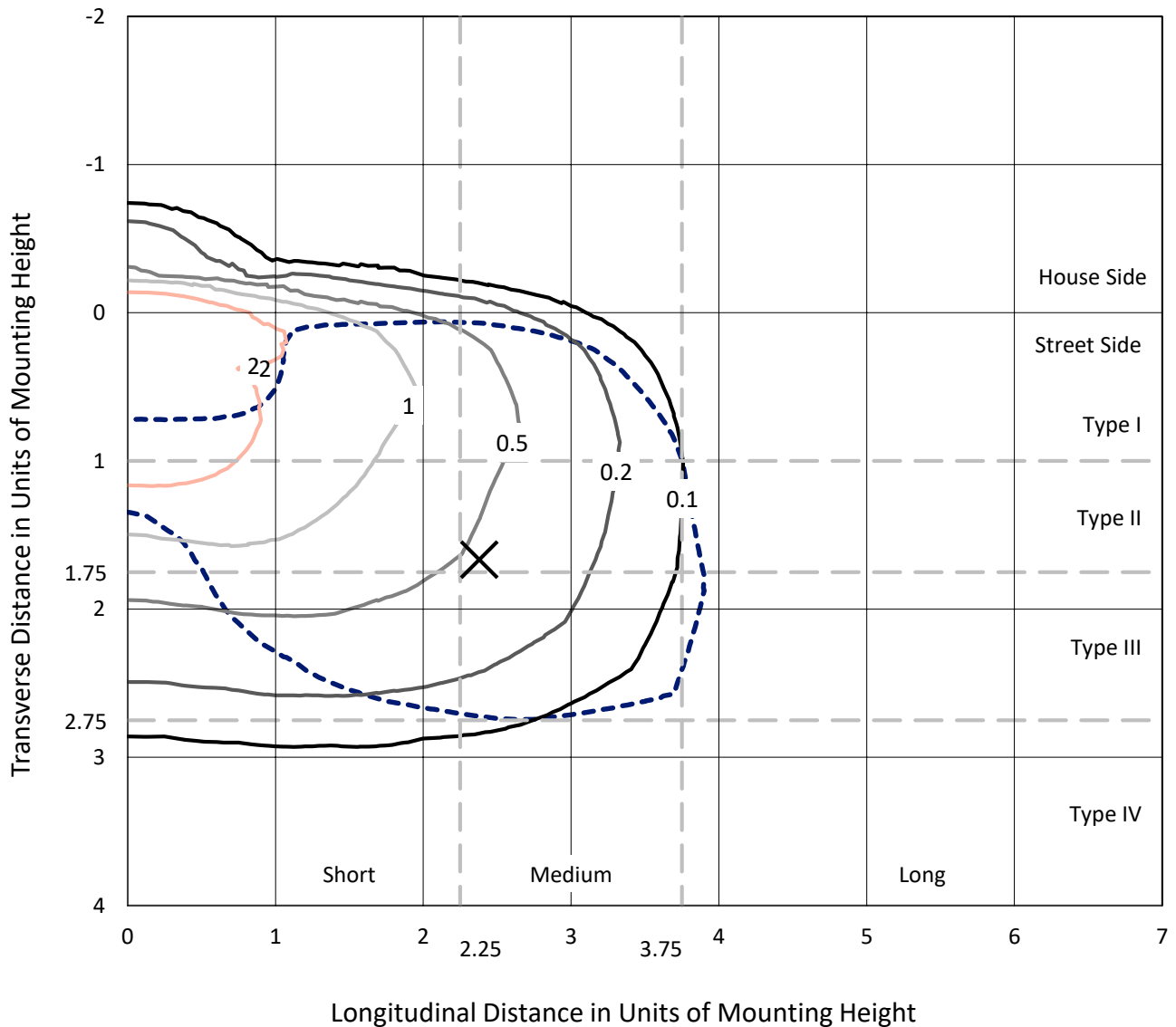
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

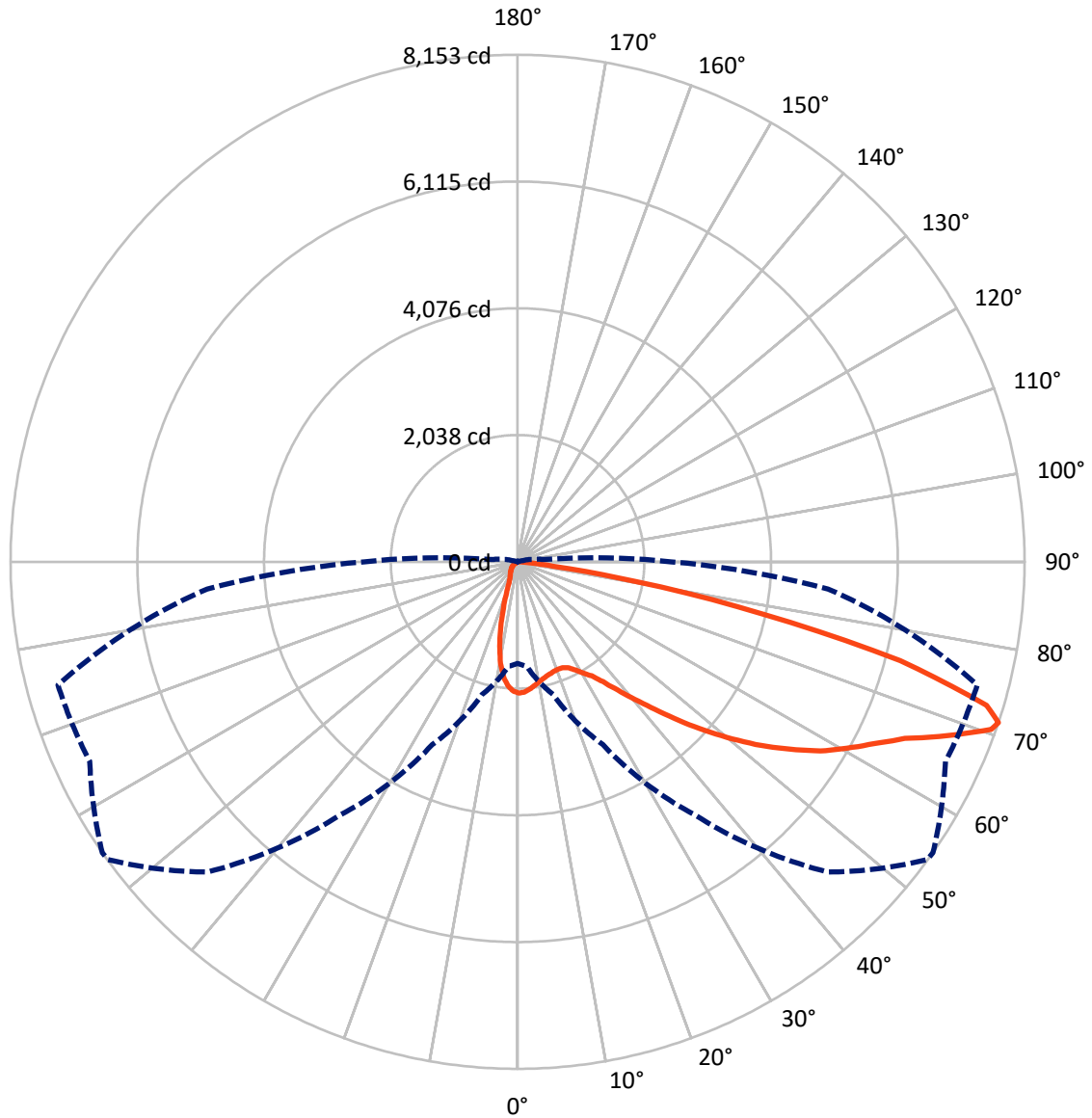
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.4	0.0	866.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10076.6	0.0	10076.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	10943.0	0.0	10943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.6
10°-20°	406.2	3.7
20°-30°	652.8	6.0
30°-40°	1109.2	10.1
40°-50°	1721.6	15.7
50°-60°	2314.6	21.2
60°-70°	2831.5	25.9
70°-80°	1655.5	15.1
80°-90°	71.6	0.7
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°	10943.0	100.0
0°-180°	10943.0	100.0

Coefficient of Utilization

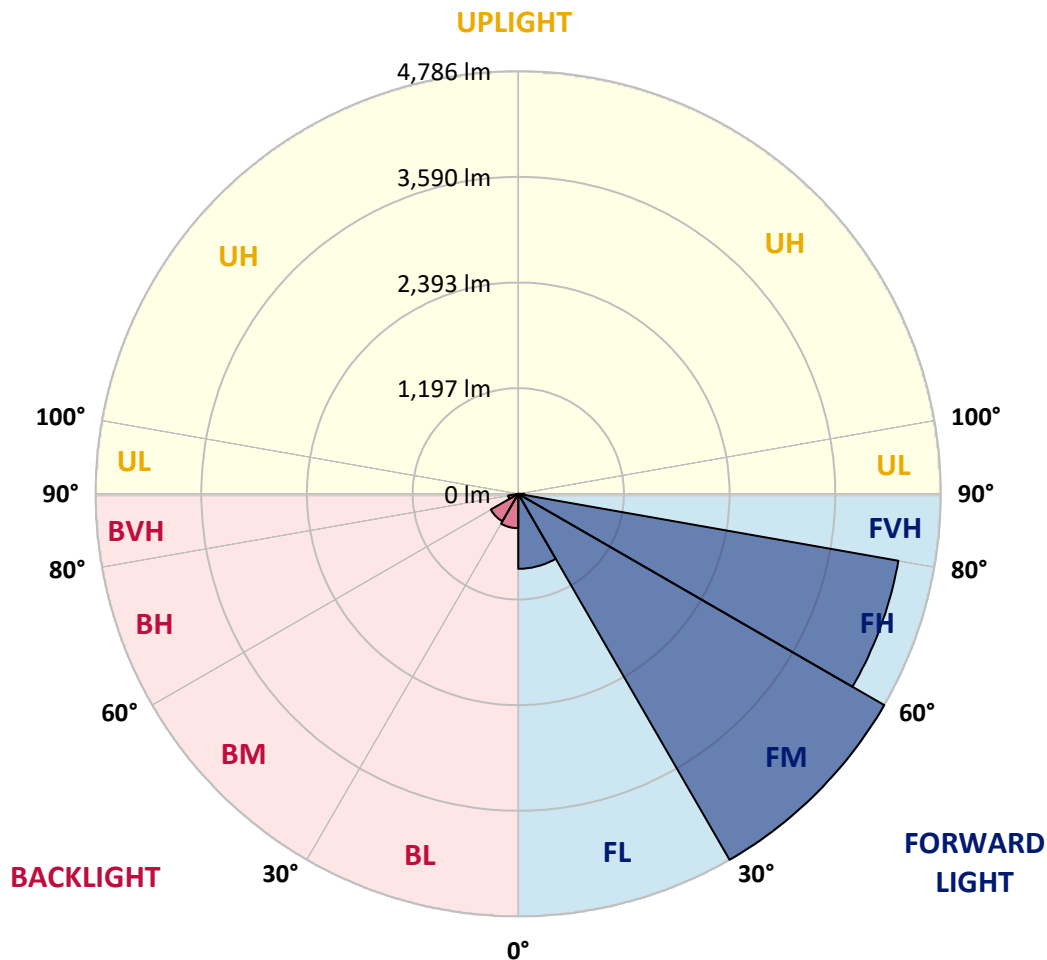


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.0	7.8			
FM (30°-60°)	4786.2	43.7			
FH (60°-80°)	4371.0	39.9			G2/5000
FVH (80°-90°)	70.4	0.6			G1/100
BL (0°-30°)	390.0	3.6	B1/500		
BM (30°-60°)	359.2	3.3	B1/1000		
BH (60°-80°)	116.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4
2.5°	2048.5	2050.9	2059.8	2063.7	2073.1	2088.8	2096.6	2097.1	2109.9	2114.8	2118.7
5°	1903.5	1918.3	1933.0	1948.7	1977.2	2015.1	2052.4	2055.9	2097.1	2127.6	2143.8
7.5°	1778.7	1792.0	1809.7	1834.7	1875.0	1934.5	1996.9	2004.3	2082.4	2151.7	2188.0
10°	1650.5	1661.3	1686.8	1723.7	1779.2	1858.8	1942.8	1955.1	2069.1	2184.1	2248.0
12.5°	1513.4	1519.8	1550.7	1603.8	1685.4	1786.6	1897.1	1913.4	2060.8	2221.4	2318.7
15°	1409.2	1412.2	1441.7	1496.7	1590.0	1721.7	1861.8	1881.4	2062.7	2266.2	2395.9
17.5°	1382.7	1384.2	1399.9	1437.7	1520.3	1663.7	1833.8	1857.8	2068.6	2309.9	2473.5
20°	1490.3	1480.0	1463.8	1457.9	1493.2	1628.9	1817.1	1844.1	2076.5	2348.7	2543.3
22.5°	1785.6	1755.1	1687.8	1597.9	1543.4	1631.3	1821.5	1848.5	2101.6	2396.4	2623.9
25°	2223.9	2181.6	2067.2	1890.3	1720.3	1702.1	1858.3	1885.8	2150.2	2453.4	2701.0
27.5°	2722.6	2680.9	2540.8	2288.3	1998.4	1842.1	1942.8	1968.4	2222.4	2504.0	2760.0
30°	3200.2	3188.4	3023.3	2736.4	2348.2	2069.1	2051.9	2073.5	2276.0	2534.4	2806.7
32.5°	3605.1	3586.4	3453.8	3174.7	2748.7	2341.8	2180.2	2186.6	2316.3	2573.8	2867.6
35°	3980.5	3957.4	3841.0	3577.1	3159.5	2675.0	2377.7	2368.4	2404.2	2652.9	2956.0
37.5°	4308.3	4329.4	4200.2	3949.1	3528.0	3021.4	2644.0	2616.0	2541.8	2781.6	3084.3
40°	4582.4	4582.4	4515.1	4305.8	3926.0	3379.6	2945.2	2908.4	2748.7	2980.1	3246.9
42.5°	4681.2	4702.3	4727.4	4609.0	4282.2	3752.0	3280.8	3242.5	3040.1	3261.7	3452.3
45°	4687.1	4720.5	4848.8	4848.3	4604.1	4122.0	3659.2	3641.0	3413.5	3623.3	3706.8
47.5°	4604.1	4645.8	4857.1	4977.0	4859.1	4466.5	4072.9	4050.3	3852.3	4066.5	3973.1
50°	4475.8	4522.0	4767.7	5027.6	5032.5	4766.2	4508.7	4474.8	4335.3	4573.1	4248.3
52.5°	4246.3	4335.8	4687.6	5039.4	5146.5	5025.2	4923.4	4908.7	4875.8	5061.0	4467.5
55°	3755.5	3854.7	4486.6	5043.3	5252.2	5254.6	5312.1	5316.0	5382.4	5517.0	4630.6
57.5°	3523.6	3579.6	4135.8	5062.0	5408.9	5515.0	5708.1	5738.6	5841.3	5949.9	4816.8
60°	3377.6	3444.0	3962.8	5036.5	5655.1	5856.5	6075.2	6085.5	6195.6	6396.5	5068.9
62.5°	3261.2	3326.5	3853.7	4938.2	5931.7	6267.3	6433.9	6434.9	6517.4	6928.7	5355.3
65°	2973.7	3028.8	3633.1	4827.6	6114.5	6673.7	6850.6	6844.2	6911.5	7489.8	5688.0
67.5°	2558.0	2600.3	3182.5	4408.5	6045.7	7043.2	7479.5	7458.4	7376.8	7974.8	5818.7
70°	1977.7	1993.0	2508.4	3673.9	5401.0	7185.2	8087.3	8076.5	7662.3	7887.8	5339.6
71°	1634.8	1684.9	2210.6	3242.5	4969.1	7054.0	8146.3	8152.7	7590.5	7651.0	5009.9
72.5°	949.3	992.1	1602.3	2490.2	4218.8	6506.6	7840.7	7886.8	7255.4	6959.2	4279.3
75°	203.4	217.7	594.1	1205.3	2320.7	4560.3	6188.7	6353.3	5913.5	4734.3	2579.2
77.5°	141.5	152.8	254.5	546.9	767.0	2253.4	3844.4	4030.1	3532.9	1779.2	825.5
80°	112.0	124.8	198.5	270.2	207.4	726.7	1800.8	1914.3	1178.3	397.0	139.1
82.5°	62.4	74.2	154.8	145.9	79.6	138.1	504.1	570.0	235.9	80.1	32.9
85°	18.2	22.1	99.7	106.1	33.9	26.5	86.0	106.6	44.7	21.1	14.7
87.5°	0.0	0.0	48.2	40.8	9.8	3.9	7.9	8.8	8.8	8.8	9.8
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°	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4	2110.4
2.5°	2118.7	2122.2	2109.9	2093.7	2076.5	2055.4	2033.3	2016.1	2015.6	2007.2	1998.9
5°	2144.8	2142.8	2108.9	2057.3	1996.4	1933.0	1872.6	1804.3	1781.7	1753.7	1744.3
7.5°	2192.9	2179.2	2107.4	1994.4	1860.8	1728.1	1591.0	1453.0	1394.0	1340.9	1331.6
10°	2253.4	2227.3	2098.1	1900.1	1654.9	1410.2	1203.3	1015.6	933.1	869.7	866.8
12.5°	2316.3	2276.5	2072.1	1757.6	1385.1	1041.2	802.9	618.1	549.3	505.1	509.1
15°	2382.1	2322.7	2016.1	1565.5	1078.0	706.6	493.3	384.7	357.2	345.9	348.9
17.5°	2449.4	2354.6	1937.9	1334.0	774.9	456.0	341.5	311.0	311.0	313.5	314.5
20°	2507.9	2371.8	1823.0	1074.6	525.3	332.2	298.7	294.3	296.8	300.7	301.2
22.5°	2565.9	2372.8	1673.1	811.7	367.5	290.9	284.5	282.5	284.0	288.4	288.9
25°	2613.1	2361.0	1485.4	577.3	293.3	274.2	271.2	270.2	271.2	276.6	276.6
27.5°	2632.2	2318.2	1256.4	405.9	262.9	255.5	254.5	255.5	257.0	260.9	261.4
30°	2634.2	2243.6	1006.8	293.8	238.3	230.4	232.4	235.9	234.4	233.4	234.4
32.5°	2639.1	2157.1	763.6	241.7	217.7	205.4	202.9	202.9	197.0	193.6	191.6
35°	2655.3	2055.4	553.8	217.2	196.5	182.3	173.0	162.1	150.8	145.0	143.5
37.5°	2680.9	1948.7	396.5	201.0	177.9	161.7	144.0	124.8	108.6	104.2	104.2
40°	2727.5	1838.7	293.3	188.2	163.1	143.0	116.5	91.4	76.7	74.2	74.2
42.5°	2801.3	1722.7	233.9	176.9	150.4	123.8	88.9	66.3	55.5	54.0	53.6
45°	2877.9	1595.0	204.4	166.1	136.6	101.7	65.8	49.1	42.7	41.3	41.3
47.5°	2954.6	1458.9	190.2	155.8	123.3	79.1	49.1	38.8	35.9	35.9	36.4
50°	3019.4	1316.8	179.8	144.5	106.1	59.9	38.8	32.9	31.9	33.9	34.4
52.5°	3035.6	1177.3	167.1	130.2	85.0	45.7	31.9	29.0	29.0	29.0	29.0
55°	3025.8	1069.2	150.4	112.5	62.9	36.4	27.5	25.6	25.1	25.1	25.1
57.5°	3059.2	1005.3	120.4	87.5	45.2	29.5	24.1	22.6	21.6	21.1	21.1
60°	3126.5	963.6	86.0	62.9	33.9	24.6	20.6	19.2	17.7	16.7	16.7
62.5°	3216.0	927.2	63.9	46.7	26.0	19.7	17.2	15.7	13.8	12.8	12.8
65°	3284.8	862.3	48.6	34.9	19.7	15.7	13.3	12.8	9.8	8.8	8.4
67.5°	3179.6	719.8	39.3	25.6	14.7	12.3	10.3	9.8	5.9	4.9	4.9
70°	2727.1	501.2	31.4	18.7	10.8	9.8	8.4	6.4	4.4	3.9	3.9
71°	2473.0	418.6	28.5	15.7	9.3	9.3	7.9	5.4	3.9	3.4	3.4
72.5°	2054.4	297.3	24.1	12.3	8.4	9.8	8.4	4.9	3.9	3.4	2.9
75°	1192.5	124.3	16.7	8.4	6.4	11.8	10.8	4.4	2.9	2.5	2.5
77.5°	358.7	45.7	9.3	5.4	4.9	10.3	12.3	3.9	1.5	0.5	0.5
80°	65.4	19.7	5.9	3.4	3.4	6.4	9.3	2.0	0.0	0.0	0.0
82.5°	23.1	9.8	3.4	2.0	1.5	2.9	4.4	0.0	0.0	0.0	0.0
85°	13.3	6.9	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	8.8	2.0	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)