

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: P299995

Luminaire Tested: **GAA-AF-02-LED-U-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-02-LED-U-SL3-7030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI
3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III w/Spill
Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9141.7 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

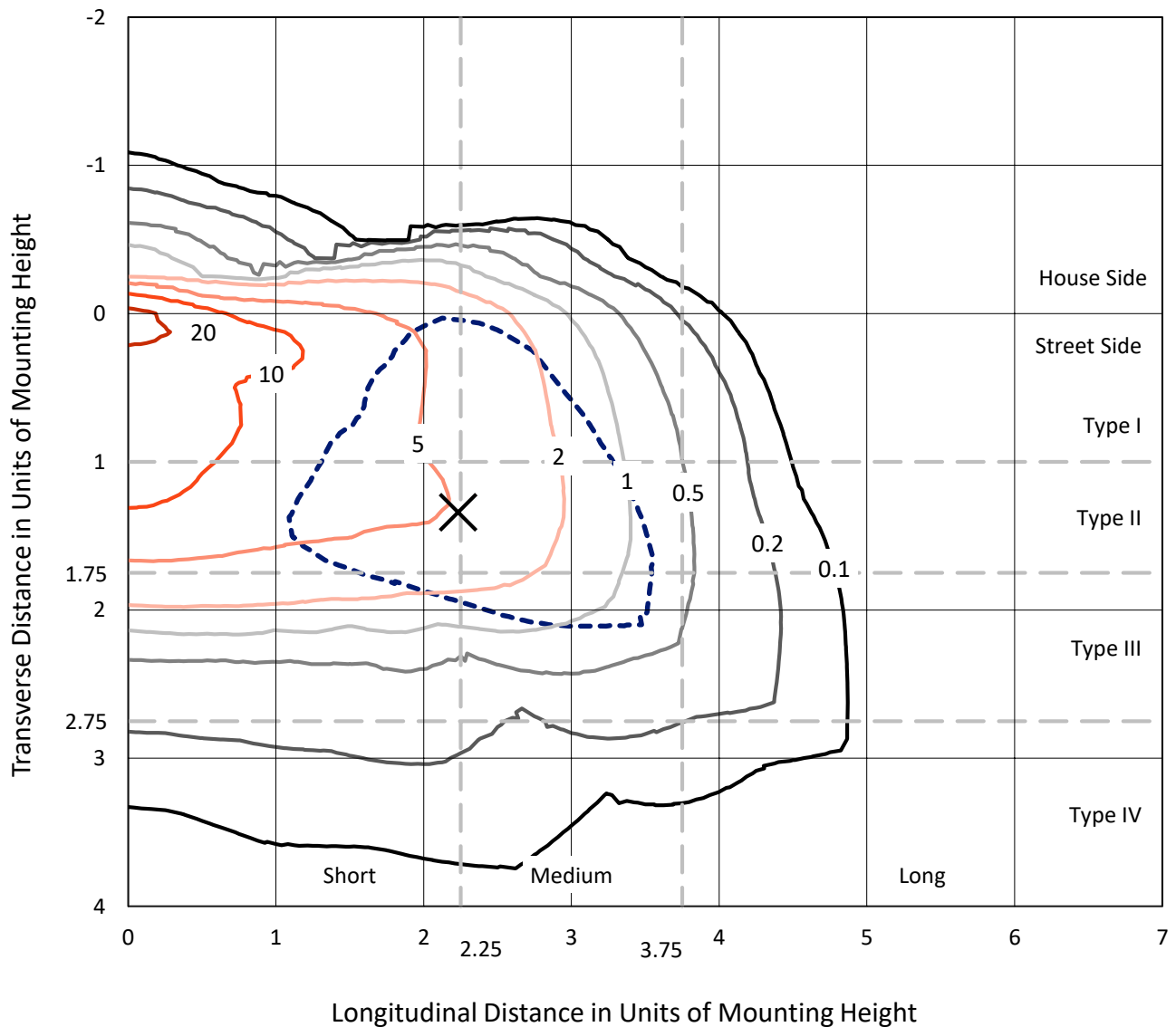
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

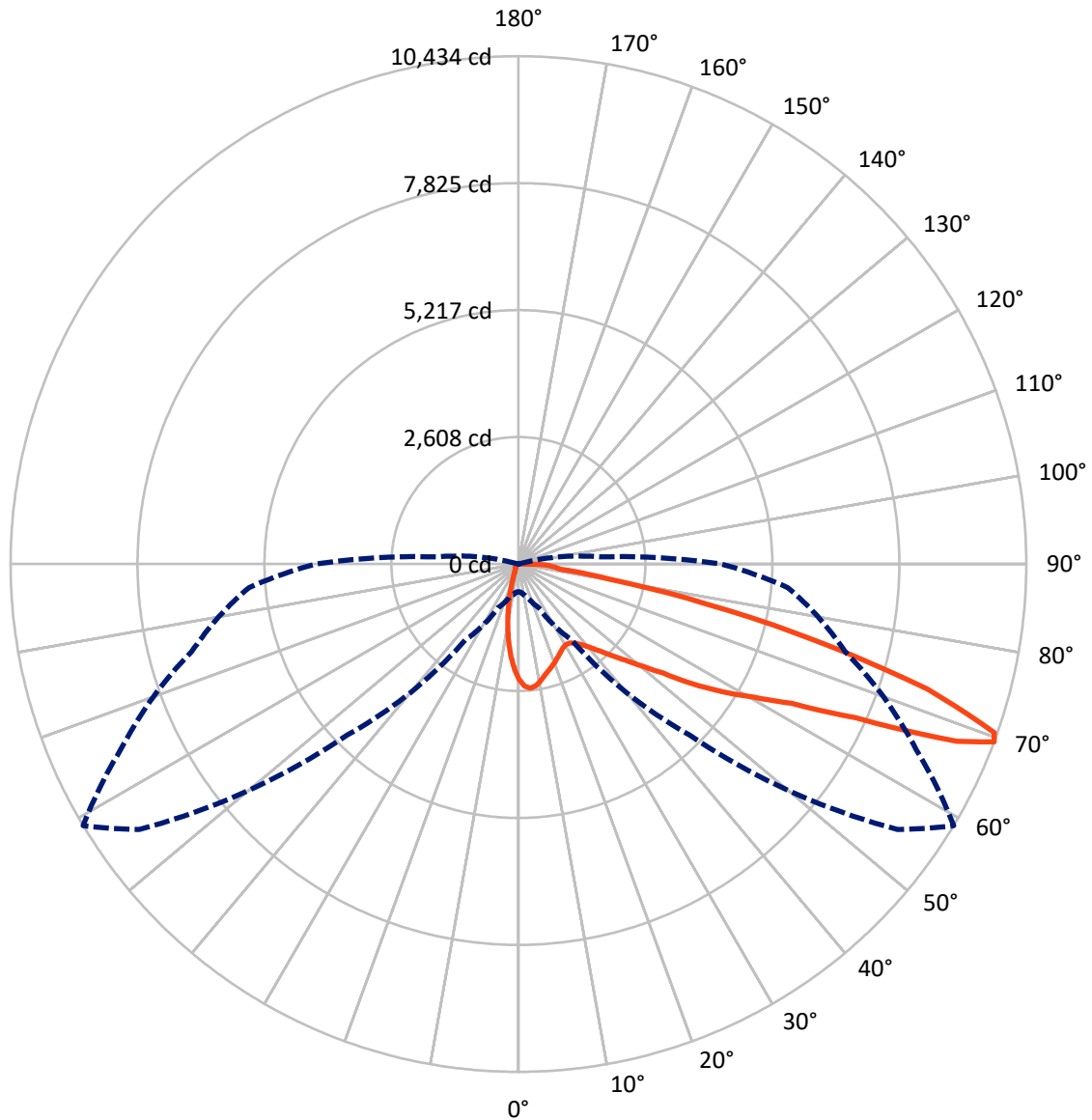
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.5	0.0	744.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	8397.2	0.0	8397.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	9141.7	0.0	9141.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.1	2.1
10°-20°	399.1	4.4
20°-30°	537.0	5.9
30°-40°	779.7	8.5
40°-50°	1298.3	14.2
50°-60°	2025.3	22.2
60°-70°	2506.1	27.4
70°-80°	1270.1	13.9
80°-90°	132.9	1.5
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°	9141.7	100.0
0°-180°	9141.7	100.0



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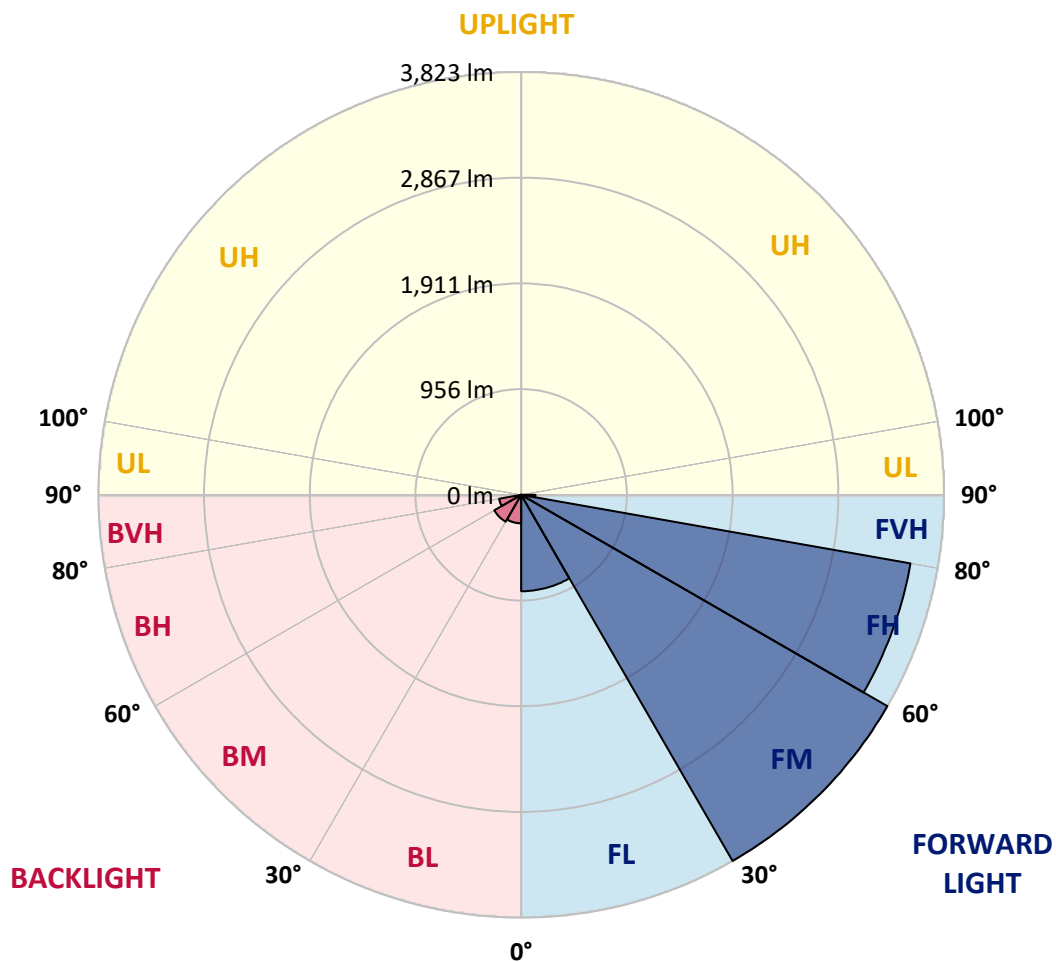
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.6	9.5			
FM	(30°-60°)	3822.8	41.8			
FH	(60°-80°)	3574.1	39.1			G2/5000
FVH	(80°-90°)	128.8	1.4			G2/225
BL	(0°-30°)	257.7	2.8	B1/500		
BM	(30°-60°)	280.5	3.1	B1/1000		
BH	(60°-80°)	202.2	2.2	B1/500		G1/500
BVH	(80°-90°)	4.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4
2.5°	2607.9	2607.0	2595.5	2590.4	2581.0	2561.4	2530.9	2514.9	2489.1	2444.0	2383.6
5°	2584.1	2596.6	2603.2	2603.8	2610.6	2603.2	2575.8	2562.5	2526.8	2454.4	2345.9
7.5°	2422.9	2427.4	2446.7	2463.1	2495.2	2525.7	2535.6	2529.8	2508.7	2431.2	2286.9
10°	2250.3	2254.8	2277.7	2299.3	2342.8	2389.7	2439.3	2449.8	2458.6	2398.0	2230.1
12.5°	2101.3	2106.0	2129.3	2157.6	2208.3	2266.2	2343.2	2360.3	2399.1	2366.6	2184.5
15°	1973.1	1975.1	1998.0	2033.0	2093.6	2168.0	2255.4	2282.8	2342.3	2344.3	2144.8
17.5°	1864.0	1869.2	1883.3	1916.8	1983.0	2075.0	2176.9	2216.2	2285.8	2325.7	2106.0
20°	1797.3	1802.5	1802.0	1820.7	1880.1	1978.3	2098.3	2145.3	2230.1	2306.6	2071.4
22.5°	1784.5	1784.5	1771.0	1768.4	1803.6	1885.8	2016.6	2073.9	2179.8	2298.3	2047.1
25°	1830.5	1828.3	1794.8	1767.4	1769.0	1818.0	1937.4	2005.7	2137.6	2304.0	2034.1
27.5°	1927.7	1925.1	1882.6	1830.5	1788.6	1788.1	1877.5	1950.9	2103.9	2330.9	2039.3
30°	2062.0	2061.1	2015.0	1949.3	1873.4	1803.6	1856.8	1923.5	2082.2	2379.4	2051.2
32.5°	2208.8	2207.2	2172.6	2103.5	2007.2	1873.4	1878.6	1934.4	2088.4	2444.0	2080.2
35°	2364.5	2361.9	2346.8	2286.4	2180.5	2002.1	1949.9	1993.3	2127.7	2540.8	2137.0
37.5°	2532.9	2535.6	2546.4	2488.5	2377.4	2182.5	2069.4	2098.8	2206.8	2672.1	2229.5
40°	2781.6	2781.2	2784.8	2708.7	2601.8	2403.2	2236.2	2245.6	2339.2	2846.3	2370.2
42.5°	3232.8	3201.4	3105.7	2950.6	2843.1	2655.5	2446.7	2436.8	2501.0	3061.8	2567.0
45°	3839.3	3772.0	3523.9	3226.7	3089.2	2939.8	2705.6	2674.1	2714.9	3320.8	2810.1
47.5°	4360.8	4291.0	3940.1	3514.1	3350.2	3209.7	3009.0	2952.2	2965.7	3610.8	3118.1
50°	4538.1	4504.0	4197.5	3764.3	3603.0	3549.3	3361.2	3291.8	3272.7	3946.2	3475.3
52.5°	4476.6	4474.1	4269.9	3926.6	3834.6	3900.8	3804.1	3724.0	3653.7	4299.9	3838.7
55°	4377.8	4390.8	4299.3	4068.7	4065.6	4221.8	4409.9	4343.3	4139.6	4684.0	4152.0
57.5°	4105.5	4160.8	4282.8	4337.6	4464.7	4624.5	4914.5	4953.8	4712.9	4978.1	4412.0
60°	3331.1	3452.6	3851.7	4376.3	4979.2	5377.2	5523.5	5557.0	5183.2	5222.5	4763.0
62.5°	2364.5	2488.5	2994.6	3882.2	4986.8	6366.0	6430.6	6298.8	5701.3	5585.0	5368.4
65°	1255.0	1350.8	1764.3	2802.3	4323.7	6595.6	8017.1	7624.3	6615.1	6297.7	6150.5
67.5°	642.0	671.0	835.4	1371.5	2972.4	5858.4	9439.2	9715.7	8190.2	7005.0	6112.7
69°	568.1	585.2	694.3	991.5	1903.3	4962.1	9508.5	10433.8	9014.9	6946.0	5554.9
70°	550.0	565.0	664.2	897.4	1487.8	4161.2	9243.2	10370.7	9225.7	6721.7	5138.3
72.5°	466.9	479.7	591.4	793.0	1209.2	2065.6	7508.5	8787.9	8278.7	5599.4	3719.3
75°	312.2	354.6	567.7	743.4	1124.8	1173.5	4950.2	6350.5	5899.3	3776.7	1937.4
77.5°	75.0	80.6	160.3	591.4	1028.7	1032.8	2545.9	3947.8	3220.0	1346.1	457.9
80°	40.4	38.8	44.9	117.4	957.8	969.3	1146.1	1916.3	1149.7	223.3	150.9
82.5°	28.5	26.9	29.0	49.1	301.4	882.9	829.2	867.4	476.6	85.8	67.8
85°	10.3	9.9	16.0	44.4	94.5	507.6	851.9	715.4	386.1	39.3	49.6
87.5°	3.6	3.1	6.3	24.3	29.0	216.1	525.7	540.7	152.0	23.8	23.3
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°	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4	2379.4
2.5°	2358.3	2326.2	2267.3	2206.8	2150.9	2083.8	2050.1	2017.1	2003.1	1998.0	1973.7
5°	2290.0	2235.7	2110.7	1985.0	1869.2	1746.2	1665.1	1600.0	1561.6	1543.0	1513.6
7.5°	2202.7	2113.8	1924.0	1730.2	1549.7	1372.0	1240.2	1138.8	1069.0	1035.5	1004.9
10°	2117.9	1999.5	1729.7	1465.5	1220.5	984.7	802.7	671.0	586.7	547.9	523.2
12.5°	2042.0	1888.4	1542.1	1207.6	899.9	624.0	438.8	334.0	281.7	263.6	254.8
15°	1974.2	1786.1	1364.8	962.5	609.4	356.7	239.9	204.2	195.9	195.9	194.9
17.5°	1910.0	1685.7	1193.5	732.5	382.5	218.2	182.5	177.8	177.8	179.8	179.8
20°	1848.5	1590.1	1028.1	525.7	240.9	173.1	165.0	163.9	165.0	167.5	167.5
22.5°	1795.8	1503.3	873.6	360.8	178.9	156.0	152.0	150.4	150.9	152.4	153.5
25°	1756.5	1429.9	727.9	244.5	154.0	142.1	137.6	134.9	132.9	132.9	133.8
27.5°	1731.8	1367.9	586.7	177.8	138.5	129.3	121.9	117.9	113.2	110.7	111.6
30°	1713.6	1308.9	454.3	145.2	124.1	114.7	105.5	98.8	92.0	88.9	90.0
32.5°	1706.9	1261.3	339.6	128.2	111.1	100.8	89.4	80.6	73.4	70.7	71.4
35°	1725.0	1223.6	248.7	115.8	100.8	87.8	75.0	65.1	59.5	57.9	58.4
37.5°	1772.6	1203.4	186.1	105.5	91.6	77.0	62.6	53.2	49.6	49.6	50.1
40°	1862.4	1202.9	149.5	98.3	83.3	66.7	51.6	44.9	42.9	44.0	44.4
42.5°	1993.8	1230.3	130.2	91.6	76.1	56.8	42.9	38.2	37.7	38.8	39.3
45°	2173.1	1280.4	119.9	85.8	68.2	47.6	36.2	33.0	33.0	34.6	35.2
47.5°	2392.9	1353.8	111.1	80.1	60.4	39.8	31.0	29.0	29.4	31.0	31.5
50°	2657.5	1446.4	102.4	73.9	54.8	33.0	26.9	25.4	25.8	27.9	28.5
52.5°	2958.9	1571.0	95.2	68.2	47.6	27.4	22.7	21.8	22.7	24.9	25.4
55°	3217.3	1682.6	86.4	63.5	38.2	22.7	18.6	18.6	19.7	22.2	22.7
57.5°	3466.0	1799.4	78.6	54.8	30.0	18.2	15.5	16.0	17.5	20.2	20.7
60°	3831.0	1997.4	69.3	46.0	22.7	14.4	13.0	13.5	15.5	18.2	18.6
62.5°	4450.8	2298.8	59.9	38.2	17.5	11.4	10.3	11.4	13.9	17.1	17.5
65°	5010.1	2421.3	49.1	32.1	13.5	8.8	8.8	10.3	13.5	16.6	17.1
67.5°	4698.4	2038.2	38.2	25.4	10.3	6.7	7.2	9.9	13.0	16.6	17.1
69°	4155.1	1666.7	32.6	20.2	8.8	6.3	6.7	9.9	13.0	16.0	16.6
70°	3731.8	1407.2	29.0	17.1	7.8	6.3	6.7	9.2	13.0	16.0	16.6
72.5°	2499.4	759.8	23.3	12.4	7.2	5.6	5.6	9.2	12.4	15.5	16.0
75°	1074.1	209.9	18.6	8.8	6.3	5.2	5.2	8.8	11.9	15.0	16.0
77.5°	196.4	53.2	15.0	7.8	6.3	5.2	4.7	8.3	11.4	14.4	15.0
80°	78.1	26.3	11.9	6.7	5.6	4.7	4.1	7.8	10.8	13.9	14.4
82.5°	47.1	15.0	9.9	6.3	5.6	4.1	3.6	6.7	10.3	13.5	13.9
85°	38.2	10.3	7.8	6.3	5.2	4.1	3.1	6.3	9.2	13.0	13.5
87.5°	18.6	7.2	7.2	5.6	5.2	4.1	3.1	5.6	8.8	12.4	13.0
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)