

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: P299648

Luminaire Tested: **GAA-AF-03-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299648
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: GAA-AF-03-LED-U-SL2-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10684.3 lumens
Efficiency: N/A
Efficacy: 86.2 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): 124
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

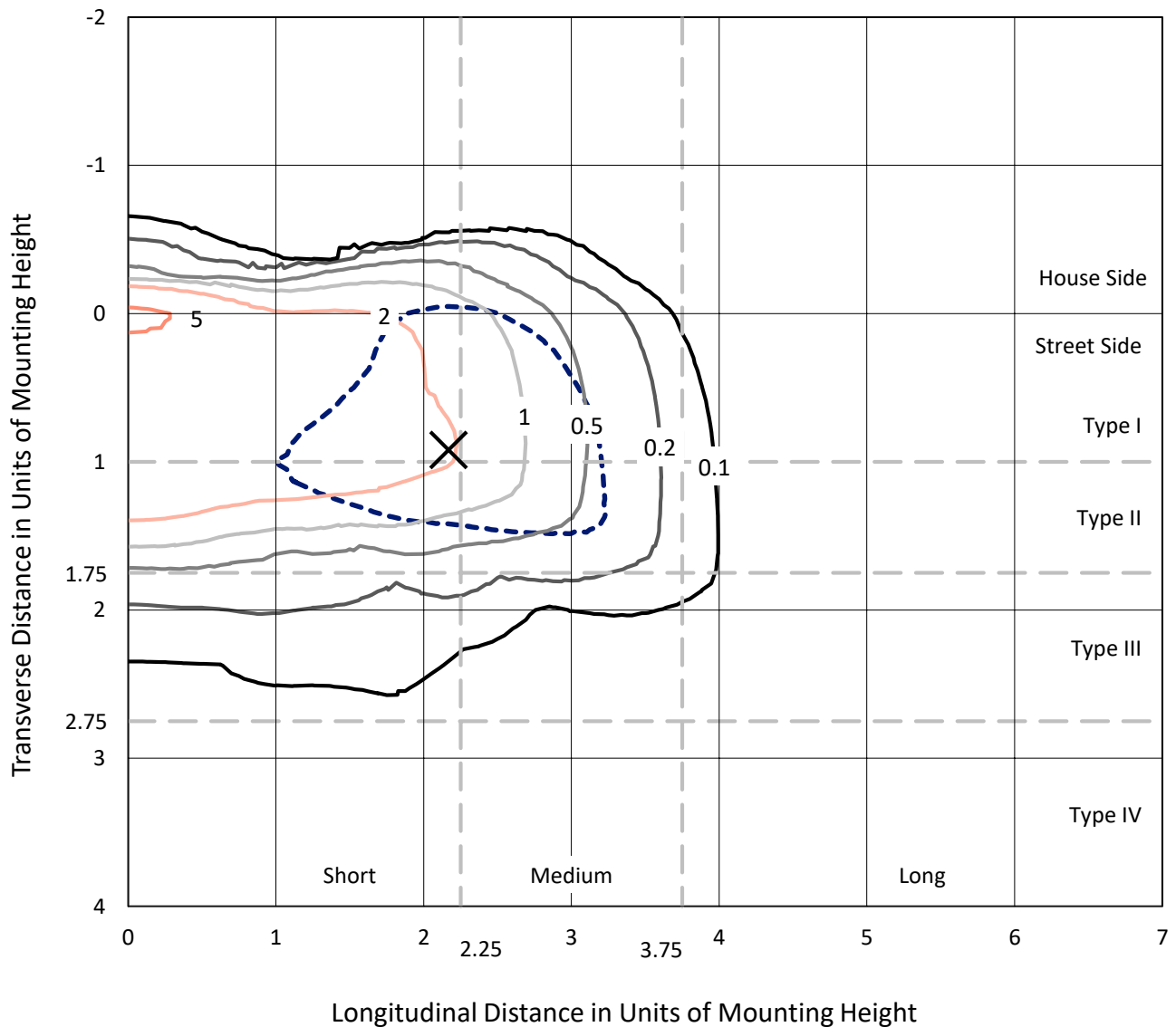


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

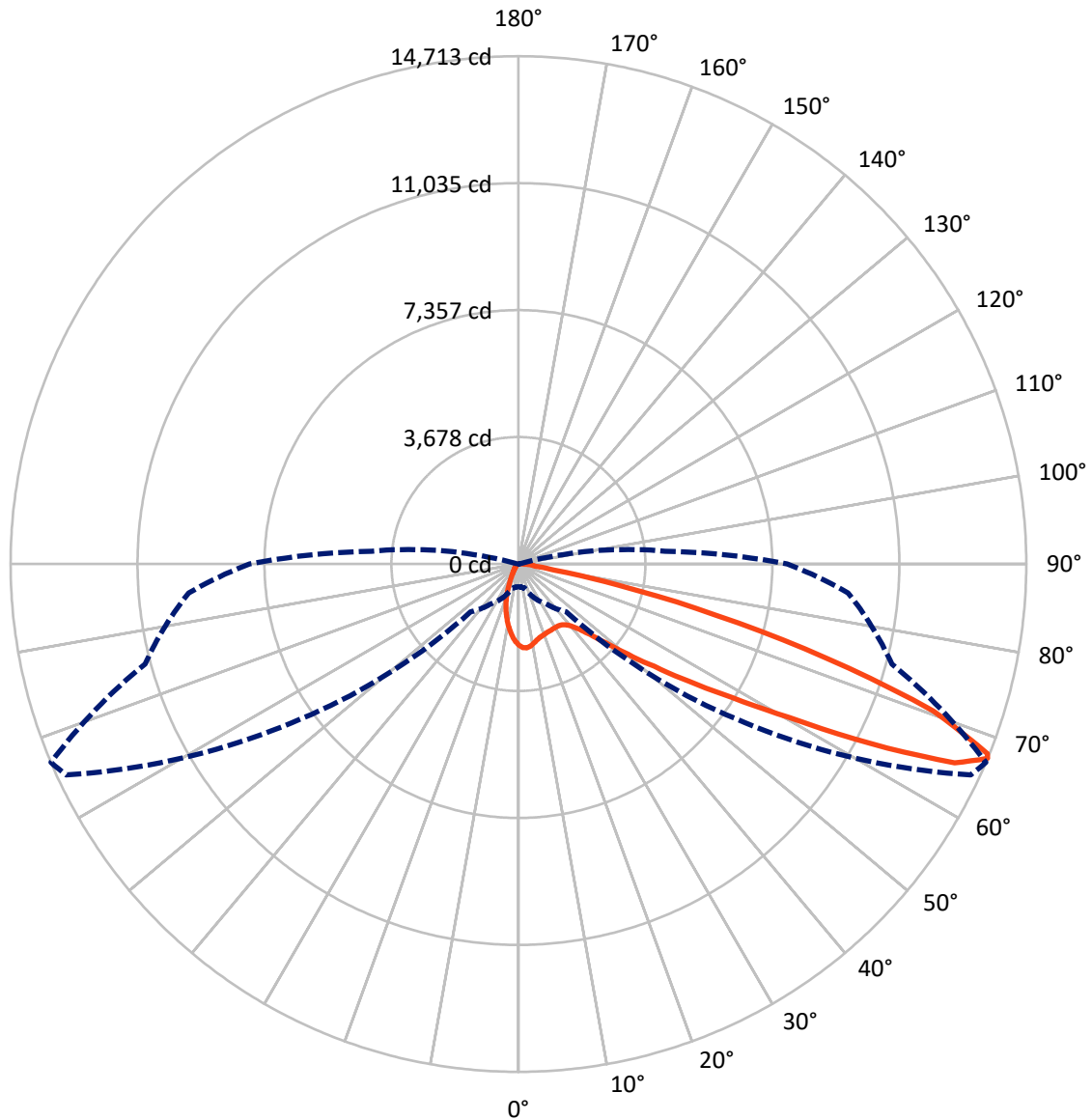


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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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	1109.4	0.0	1109.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9575.0	0.0	9575.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	10684.3	0.0	10684.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	1.8
10°-20°	408.1	3.8
20°-30°	593.3	5.6
30°-40°	925.6	8.7
40°-50°	1639.6	15.3
50°-60°	2594.5	24.3
60°-70°	2971.6	27.8
70°-80°	1232.6	11.5
80°-90°	127.3	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°	10684.3	100.0
0°-180°	10684.3	100.0

Coefficient of Utilization



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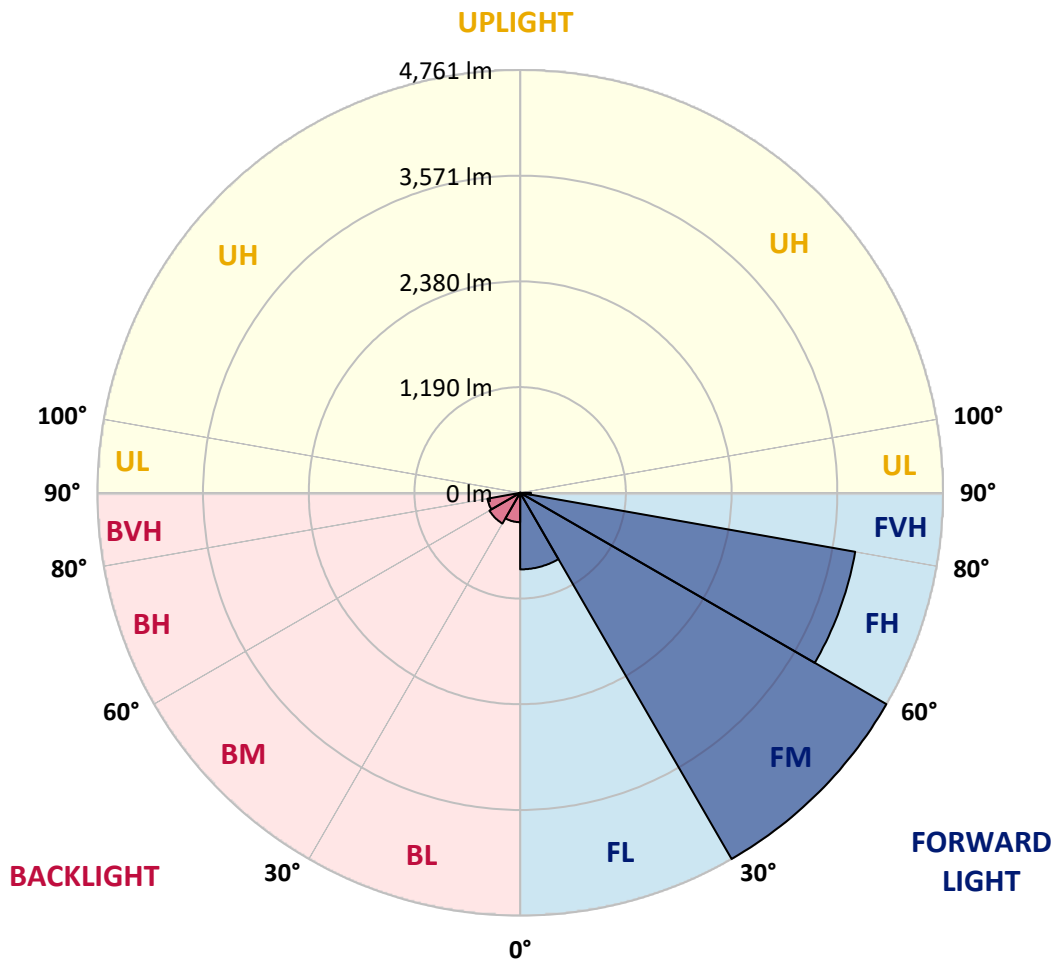
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.1	8.1			
FM (30°-60°)	4761.0	44.6			
FH (60°-80°)	3830.4	35.9			G2/5000
FVH (80°-90°)	121.6	1.1			G2/225
BL (0°-30°)	331.0	3.1	B1/500		
BM (30°-60°)	398.7	3.7	B1/1000		
BH (60°-80°)	373.9	3.5	B1/500		G1/500
BVH (80°-90°)	5.7	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°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2436.1	2441.0	2440.4	2444.2	2452.9	2453.5	2444.8	2428.0	2424.2	2402.4	2364.4
5°	2246.6	2260.9	2269.7	2305.2	2345.1	2393.1	2429.2	2442.3	2440.4	2424.8	2367.5
7.5°	2030.4	2044.7	2054.7	2096.4	2149.4	2231.7	2325.8	2403.0	2409.9	2426.7	2365.0
10°	1886.4	1888.9	1902.6	1942.5	1998.0	2082.1	2194.3	2329.5	2350.1	2411.8	2358.8
12.5°	1768.0	1769.9	1787.9	1830.9	1890.1	1974.9	2092.7	2249.1	2280.9	2393.1	2357.5
15°	1683.9	1690.7	1706.9	1751.8	1814.7	1898.9	2019.8	2189.9	2227.9	2386.2	2368.8
17.5°	1655.8	1663.3	1668.3	1700.7	1758.0	1840.3	1964.3	2151.3	2194.3	2389.9	2390.6
20°	1685.1	1690.7	1679.5	1687.6	1723.1	1796.7	1917.6	2118.2	2169.3	2394.3	2418.6
22.5°	1794.2	1796.7	1766.1	1730.6	1724.4	1764.9	1880.8	2092.1	2146.9	2406.1	2451.6
25°	1981.1	1976.8	1926.9	1850.3	1778.0	1759.3	1859.0	2075.9	2135.7	2418.6	2485.9
27.5°	2206.7	2213.0	2144.4	2032.9	1895.1	1796.7	1855.9	2069.0	2130.7	2427.3	2515.8
30°	2480.9	2489.7	2411.1	2270.9	2073.4	1888.9	1884.5	2067.8	2127.6	2421.7	2518.3
32.5°	2760.7	2771.3	2709.6	2565.1	2311.4	2043.4	1949.3	2081.5	2133.8	2402.4	2504.0
35°	3053.6	3068.6	3027.5	2903.5	2634.2	2266.6	2063.4	2123.2	2163.1	2400.5	2489.7
37.5°	3458.1	3471.8	3394.5	3263.0	3025.0	2565.7	2246.6	2201.7	2232.3	2430.5	2493.4
40°	4062.0	4060.1	3860.7	3659.4	3454.4	2945.8	2504.0	2343.8	2359.4	2520.8	2539.5
42.5°	4720.1	4716.9	4422.2	4116.2	3931.1	3413.9	2842.4	2589.4	2578.8	2687.2	2659.2
45°	5227.3	5226.7	4986.2	4641.5	4505.1	3951.0	3279.9	2930.9	2914.7	2957.7	2879.8
47.5°	5443.6	5447.3	5326.4	5084.0	5141.3	4677.7	3831.4	3425.7	3401.4	3383.9	3265.5
50°	5275.3	5282.8	5292.8	5245.4	5608.1	5654.2	4571.1	4123.0	4111.2	4033.3	3848.2
52.5°	4725.7	4763.7	4880.8	5031.0	5770.1	6591.5	5730.9	4989.3	4925.7	4842.8	4639.0
55°	3799.6	3841.4	4063.8	4428.4	5529.0	7207.2	7356.2	6106.0	6000.1	5752.7	5458.5
57.5°	2514.6	2579.4	2902.2	3365.9	4828.5	7306.3	8977.7	7655.9	7287.0	6609.6	6278.0
60°	1385.4	1447.7	1797.9	2217.9	3487.4	6816.5	10068.3	9673.8	9022.0	7567.4	7273.3
62.5°	853.2	886.8	1145.4	1536.2	2091.4	5380.0	10293.9	12209.6	11454.9	8800.7	8475.4
65°	679.3	693.6	820.1	1255.7	1499.4	3200.1	9565.4	14142.7	13891.0	10293.9	9551.7
67°	659.3	664.9	724.8	1078.1	1413.4	1961.8	8013.6	14457.5	14713.0	11197.5	9585.3
67.5°	663.7	669.9	726.6	1028.9	1410.9	1802.9	7478.9	14333.4	14656.3	11269.2	9436.4
70°	640.0	659.3	832.0	1028.3	1341.7	1498.2	4478.9	12419.0	12754.9	10470.9	8006.8
72.5°	226.8	228.1	359.6	832.0	1458.9	1514.4	2249.1	9104.2	9352.9	8009.9	5772.6
75°	134.6	114.7	119.7	236.8	1394.1	1470.7	1297.5	5817.5	5910.4	4589.8	2923.4
77.5°	92.9	81.0	83.5	104.7	531.0	1450.2	1030.8	3033.7	2934.6	1609.7	622.6
80°	53.0	46.7	49.9	91.6	193.2	1353.0	972.2	1230.2	1048.8	273.0	172.0
82.5°	28.0	23.7	28.7	75.4	134.6	843.2	974.1	594.5	471.1	92.2	117.2
85°	10.0	8.1	13.7	51.7	89.7	258.6	903.0	499.8	392.6	44.9	89.1
87.5°	1.9	1.9	5.6	21.2	36.1	79.1	534.1	296.6	198.8	26.8	61.1
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°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2348.8	2322.0	2285.9	2241.6	2189.3	2143.2	2108.9	2073.4	2065.9	2053.4	2051.6
5°	2333.2	2287.1	2197.4	2094.6	1984.9	1885.8	1805.4	1733.7	1701.9	1674.5	1671.4
7.5°	2310.2	2241.0	2088.3	1922.6	1751.2	1595.4	1463.3	1369.8	1283.8	1242.6	1236.4
10°	2283.4	2184.3	1965.6	1735.6	1498.8	1278.8	1082.5	918.0	818.3	759.0	751.6
12.5°	2258.5	2128.8	1840.3	1541.8	1227.1	932.9	680.5	523.5	418.8	376.4	371.4
15°	2246.6	2084.0	1723.1	1343.6	942.9	593.9	372.0	287.9	253.6	243.7	243.0
17.5°	2245.4	2045.9	1608.5	1138.6	660.6	345.2	242.4	221.2	214.4	211.9	211.9
20°	2244.7	2009.8	1493.8	926.1	419.4	230.0	201.9	196.9	191.9	188.8	188.8
22.5°	2251.6	1977.4	1374.1	709.2	264.2	186.3	177.6	172.6	166.4	162.0	161.4
25°	2258.5	1952.5	1252.0	504.8	191.3	162.0	153.3	146.5	137.7	132.1	131.5
27.5°	2259.7	1921.3	1121.1	337.8	160.2	141.5	130.2	119.7	109.7	104.1	103.5
30°	2241.0	1869.0	975.9	228.1	141.5	122.8	107.8	96.6	87.2	82.9	82.9
32.5°	2204.2	1804.1	816.4	172.0	125.9	105.3	89.1	78.5	72.3	70.4	69.8
35°	2171.2	1734.3	652.5	145.8	112.8	89.1	72.9	66.1	62.3	61.7	61.1
37.5°	2151.9	1678.3	498.6	132.1	100.3	74.8	61.7	56.7	54.8	53.6	54.2
40°	2166.8	1631.5	368.3	120.9	87.9	62.3	52.3	49.9	48.0	47.4	47.4
42.5°	2232.3	1623.4	273.6	110.9	76.0	51.7	45.5	43.6	42.4	41.8	42.4
45°	2404.3	1673.3	212.5	101.6	64.2	43.6	38.6	38.0	37.4	37.4	37.4
47.5°	2662.9	1776.1	177.0	91.0	53.6	37.4	33.7	33.0	32.4	33.0	33.0
50°	3101.0	1964.3	158.3	80.4	44.2	31.8	28.7	28.7	28.7	28.7	29.3
52.5°	3767.2	2334.5	145.8	69.8	36.1	26.8	24.3	24.3	24.9	24.9	25.6
55°	4509.4	2825.6	134.6	59.2	30.5	22.4	19.9	20.6	21.2	21.8	21.8
57.5°	5314.6	3369.6	125.3	48.6	26.2	18.1	16.8	17.4	18.1	19.3	19.3
60°	6286.1	3958.5	111.6	38.0	21.8	14.3	13.1	14.3	16.2	17.4	18.1
62.5°	7353.1	4528.1	94.1	29.9	18.1	11.2	10.6	13.1	15.6	16.8	17.4
65°	8082.2	4707.0	72.3	24.3	13.7	8.1	8.7	11.8	15.0	16.8	16.8
67°	7786.8	4267.6	59.2	20.6	11.2	6.2	8.1	11.8	15.0	16.2	16.8
67.5°	7581.8	4095.6	56.7	19.9	10.6	6.2	8.1	11.8	15.0	16.8	16.8
70°	6169.0	3076.7	47.4	15.0	8.7	5.6	6.9	11.2	14.3	16.2	16.2
72.5°	4286.3	1897.0	42.4	10.6	7.5	5.0	6.2	10.6	13.7	15.6	16.2
75°	2037.8	686.8	36.1	8.1	6.9	4.4	5.6	10.6	13.7	15.6	15.6
77.5°	415.7	159.5	29.3	6.9	5.6	4.4	5.0	10.0	13.1	15.0	15.0
80°	136.5	61.7	21.8	6.2	5.6	4.4	5.0	9.3	13.1	14.3	15.0
82.5°	98.5	31.2	14.3	6.2	5.6	4.4	4.4	9.3	12.5	14.3	14.3
85°	75.4	21.8	9.3	6.2	5.6	4.4	4.4	8.7	11.8	13.7	13.7
87.5°	49.9	8.7	7.5	6.2	5.6	4.4	4.4	8.7	11.2	13.1	13.7
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)