

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: P200306

Luminaire Tested: **GAP-AF-02-LED-U-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-SL4-7050-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11060 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

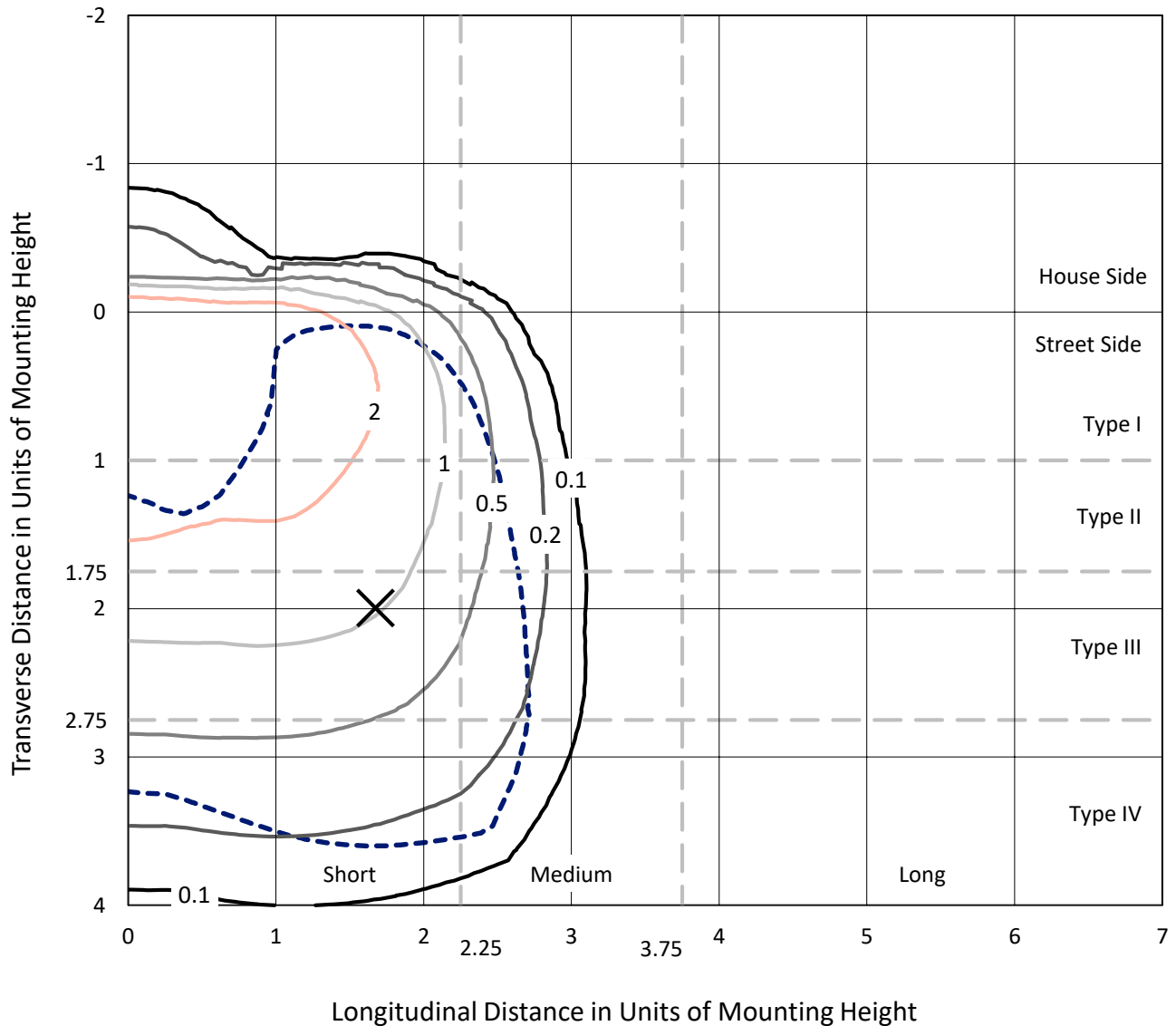


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

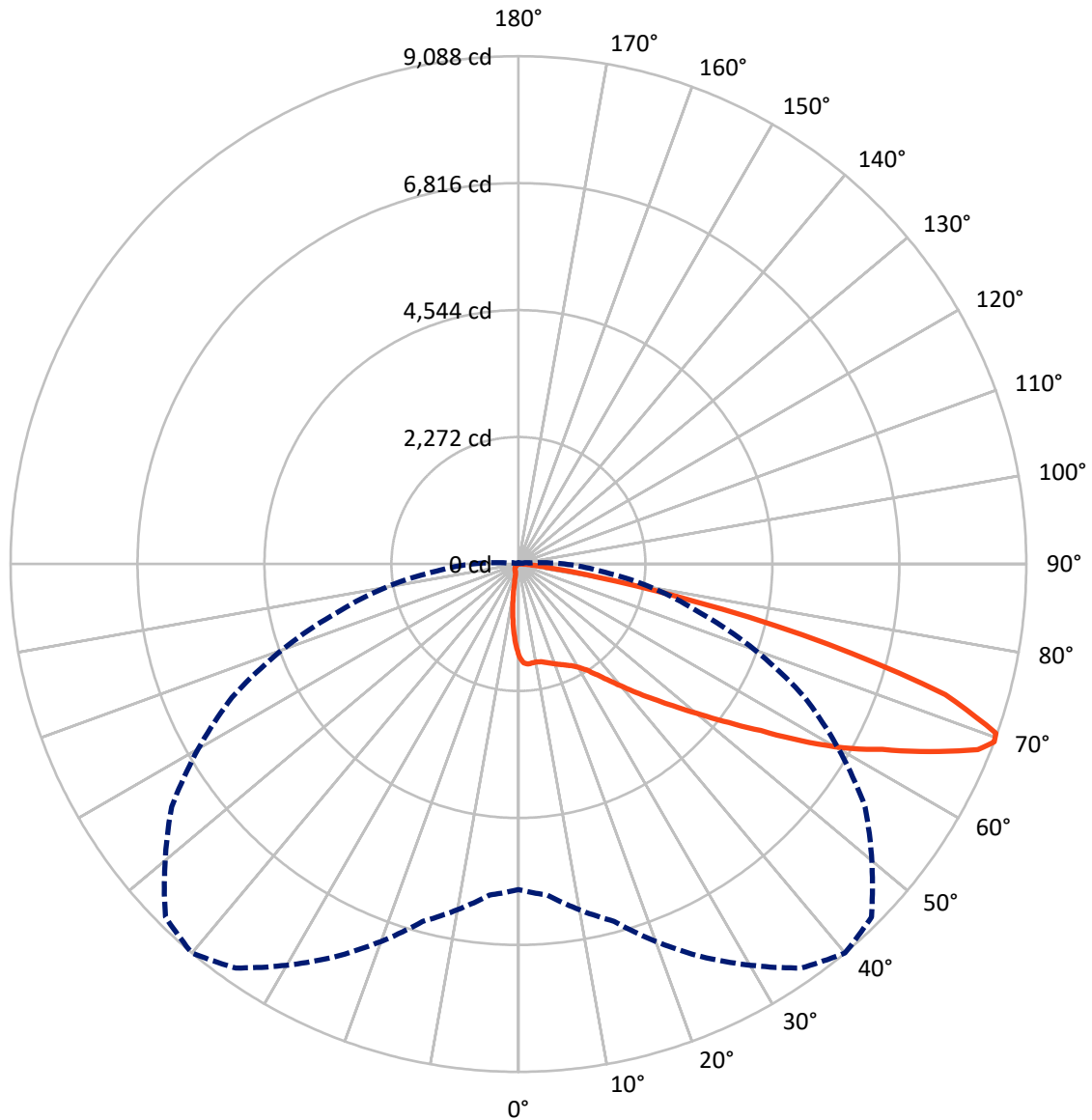


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.1	0.0	647.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	10412.9	0.0	10412.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	11060.0	0.0	11060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	1.2
10°-20°	329.5	3.0
20°-30°	555.0	5.0
30°-40°	908.5	8.2
40°-50°	1573.0	14.2
50°-60°	2477.6	22.4
60°-70°	3235.7	29.3
70°-80°	1666.5	15.1
80°-90°	180.3	1.6
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°	11060.0	100.0
0°-180°	11060.0	100.0

Coefficient of Utilization



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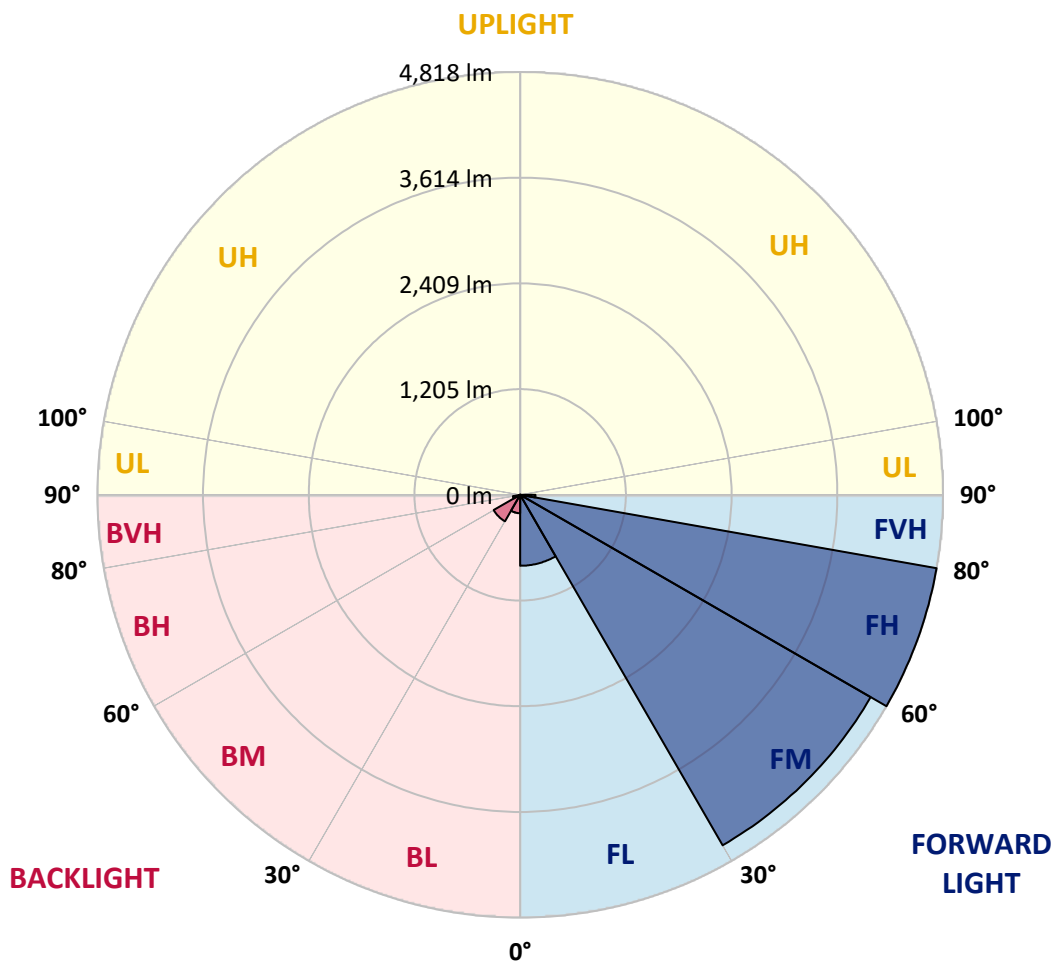
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	808.8	7.3			
FM	(30°-60°)	4611.3	41.7			
FH	(60°-80°)	4818.2	43.6			G2/5000
FVH	(80°-90°)	174.6	1.6			G2/225
BL	(0°-30°)	209.6	1.9	B1/500		
BM	(30°-60°)	347.8	3.1	B1/1000		
BH	(60°-80°)	84.0	0.8	B0/110		G0/110
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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4
2.5°	1814.4	1804.5	1798.6	1790.7	1780.8	1772.2	1768.9	1744.6	1721.5	1689.9	1653.7
5°	1847.9	1844.7	1834.1	1823.6	1811.7	1798.6	1791.3	1762.4	1729.4	1683.4	1620.2
7.5°	1851.2	1847.3	1834.1	1819.6	1803.2	1787.4	1774.9	1745.9	1715.6	1668.9	1591.9
10°	1846.0	1841.4	1831.5	1815.7	1795.3	1780.1	1767.6	1740.0	1714.3	1672.2	1586.6
12.5°	1840.0	1835.4	1830.8	1822.9	1805.2	1794.6	1784.1	1757.8	1734.7	1699.2	1605.7
15°	1846.0	1843.3	1848.6	1845.3	1835.4	1826.2	1815.7	1792.0	1770.9	1741.3	1640.6
17.5°	1871.0	1871.0	1887.4	1889.4	1880.2	1867.0	1851.9	1828.2	1810.4	1785.4	1682.0
20°	1929.6	1927.6	1948.7	1952.6	1930.2	1909.8	1887.4	1858.5	1844.7	1828.9	1722.9
22.5°	2030.3	2021.1	2033.6	2029.6	1985.5	1953.9	1926.3	1890.7	1883.5	1876.3	1768.3
25°	2161.3	2156.0	2164.6	2125.8	2048.1	2005.3	1972.4	1932.2	1932.2	1939.5	1819.6
27.5°	2351.6	2331.8	2302.9	2234.4	2117.9	2063.2	2027.7	1984.9	1996.1	2023.1	1887.4
30°	2546.4	2524.7	2458.2	2352.9	2202.8	2145.5	2104.0	2059.3	2085.6	2135.0	1978.3
32.5°	2738.7	2714.3	2620.2	2487.2	2324.6	2267.3	2227.1	2177.8	2221.9	2304.8	2111.3
35°	2925.0	2903.3	2794.6	2637.9	2486.5	2439.1	2402.3	2359.5	2416.1	2532.0	2298.9
37.5°	3134.3	3110.6	2978.3	2808.5	2683.4	2649.1	2622.1	2579.4	2678.1	2848.0	2560.3
40°	3391.7	3351.6	3173.2	3004.0	2911.2	2894.7	2876.3	2870.3	3023.7	3258.8	2908.5
42.5°	3686.7	3620.8	3377.3	3210.0	3161.3	3173.2	3168.6	3194.9	3456.3	3769.6	3332.5
45°	3981.6	3896.7	3604.4	3429.9	3436.5	3478.0	3503.7	3609.0	3998.1	4355.5	3788.7
47.5°	4231.8	4148.2	3822.3	3667.6	3746.6	3828.2	3898.0	4097.5	4555.0	4932.2	4143.6
50°	4445.7	4366.7	4053.4	3928.9	4106.7	4238.4	4351.6	4647.2	5154.1	5371.4	4392.4
52.5°	4620.9	4568.2	4293.0	4228.5	4518.2	4711.0	4876.9	5231.1	5684.7	5728.2	4586.0
55°	4791.4	4753.8	4550.4	4584.6	5001.4	5264.0	5474.1	5850.6	6141.6	6025.7	4771.6
57.5°	4987.5	4953.3	4844.0	5036.3	5636.7	5967.1	6196.2	6399.7	6543.8	6329.9	4946.7
60°	5187.7	5167.9	5170.6	5537.9	6366.1	6683.4	6809.8	6862.5	6938.9	6616.3	4956.6
62.5°	5378.6	5416.1	5543.8	6096.2	7064.6	7308.2	7372.0	7424.0	7334.5	6661.7	4579.4
65°	5701.8	5763.1	6067.9	6843.4	7832.9	8093.6	8159.4	7981.0	7397.1	6074.5	3724.9
67.5°	5859.8	5971.8	6515.5	7539.9	8578.1	8867.8	8843.4	8017.2	6638.0	4632.0	2390.4
69°	5826.9	5946.1	6618.9	7753.2	8825.6	9088.3	8933.6	7574.1	5655.1	3355.5	1467.4
70°	5696.6	5817.0	6565.6	7745.3	8857.2	9065.3	8766.4	7027.1	4781.5	2453.6	917.7
72.5°	4757.1	4861.1	5828.9	7000.7	8159.4	7990.2	7333.9	4868.4	2329.8	668.2	206.7
75°	2928.3	2986.2	4182.4	5273.9	6162.7	5728.2	4886.2	2422.0	694.5	188.9	114.6
77.5°	1547.1	1573.4	2289.7	3108.7	3906.6	3232.4	2504.3	944.7	320.0	118.5	83.0
80°	914.4	934.2	1233.1	1421.3	1690.6	1412.1	1001.3	580.0	229.1	74.4	73.7
82.5°	523.4	535.9	894.0	790.0	666.2	568.8	498.4	549.7	137.6	50.0	76.4
85°	192.2	194.9	503.0	601.1	396.3	235.7	247.5	455.6	36.9	31.6	59.9
87.5°	89.5	87.6	258.7	368.0	231.7	149.4	192.9	100.1	14.5	20.4	16.5
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°	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4	1652.4
2.5°	1632.7	1608.3	1564.2	1518.8	1472.7	1437.1	1402.3	1374.6	1365.4	1348.3	1349.6
5°	1582.6	1537.9	1445.7	1352.2	1254.8	1174.5	1098.8	1037.5	1007.9	977.6	977.6
7.5°	1539.2	1474.0	1329.8	1177.8	1020.4	888.1	768.9	679.4	630.0	590.5	589.9
10°	1522.7	1434.5	1233.1	1015.2	795.9	615.5	474.0	383.2	336.4	306.1	304.8
12.5°	1530.0	1420.7	1158.7	865.1	589.9	395.7	274.5	215.9	196.2	187.0	187.0
15°	1551.0	1416.7	1084.3	718.2	416.7	247.5	182.4	166.6	165.2	165.2	165.2
17.5°	1576.7	1418.1	1007.9	575.4	283.7	177.1	157.3	155.4	156.7	156.7	156.7
20°	1603.0	1418.7	925.6	443.1	200.1	154.1	148.1	147.5	148.8	148.8	149.4
22.5°	1635.3	1422.0	843.3	331.1	165.2	145.5	140.9	140.9	141.5	141.5	140.9
25°	1672.2	1428.6	757.7	245.6	150.8	139.6	135.6	135.0	135.6	135.0	134.3
27.5°	1718.3	1437.8	662.3	192.2	144.2	133.6	130.4	130.4	129.7	129.0	128.4
30°	1776.2	1448.3	555.0	163.3	137.6	128.4	125.1	124.4	123.8	122.5	122.5
32.5°	1864.4	1471.4	449.0	148.1	130.4	121.1	118.5	118.5	117.2	115.9	115.2
35°	2000.0	1516.8	354.2	138.9	122.5	113.2	109.9	109.9	108.6	108.0	107.3
37.5°	2187.6	1585.9	275.2	130.4	114.6	104.7	101.4	100.7	99.4	98.1	97.4
40°	2437.2	1671.5	216.6	122.5	106.7	96.1	93.5	92.2	89.5	87.6	87.6
42.5°	2750.5	1768.9	175.8	113.9	97.4	88.2	86.2	84.3	79.7	77.7	77.0
45°	3078.4	1856.5	148.8	104.0	88.2	80.3	79.0	75.7	69.8	67.8	67.8
47.5°	3314.7	1876.9	131.0	94.8	79.7	71.8	71.1	65.2	59.9	58.6	57.9
50°	3462.2	1836.8	116.5	85.6	71.8	63.9	61.9	54.6	51.4	50.0	49.4
52.5°	3561.6	1765.0	104.7	77.7	64.5	56.6	52.0	46.7	44.1	42.8	42.8
55°	3641.3	1663.6	92.8	70.4	58.6	50.7	44.1	40.2	37.5	36.2	36.2
57.5°	3663.6	1526.0	81.0	64.5	52.7	44.8	37.5	34.9	31.6	30.9	30.9
60°	3501.0	1277.8	71.8	57.3	47.4	38.8	32.9	29.6	26.3	25.7	25.0
62.5°	3072.4	988.8	63.2	50.7	41.5	33.6	28.3	24.4	21.7	21.7	21.7
65°	2343.7	662.9	55.3	44.1	36.2	28.3	24.4	19.8	18.4	18.4	19.1
67.5°	1402.9	360.8	47.4	37.5	30.9	23.7	20.4	17.1	16.5	17.1	17.1
69°	822.3	212.0	42.8	33.6	27.0	21.1	17.8	15.1	16.5	17.1	17.1
70°	507.6	142.9	39.5	30.3	24.4	19.1	16.5	14.5	15.8	16.5	16.5
72.5°	141.5	73.7	31.6	23.7	19.8	15.8	13.2	13.2	15.1	15.8	15.8
75°	92.2	54.6	24.4	17.8	15.1	12.5	11.2	12.5	14.5	15.1	15.1
77.5°	76.4	44.8	19.8	14.5	12.5	11.9	10.5	11.2	13.2	13.8	13.8
80°	69.8	31.6	15.8	13.2	11.2	10.5	9.9	9.2	11.9	12.5	12.5
82.5°	66.5	25.0	13.8	11.9	10.5	9.2	8.6	9.2	10.5	11.2	11.9
85°	41.5	16.5	12.5	11.2	9.2	8.6	8.6	8.6	9.9	10.5	10.5
87.5°	15.1	13.2	11.2	9.2	7.9	7.9	7.9	7.9	8.6	9.9	9.9
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)