

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: P192960

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192960
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: GAN-AF-02-LED-U-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 10486.7 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' 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

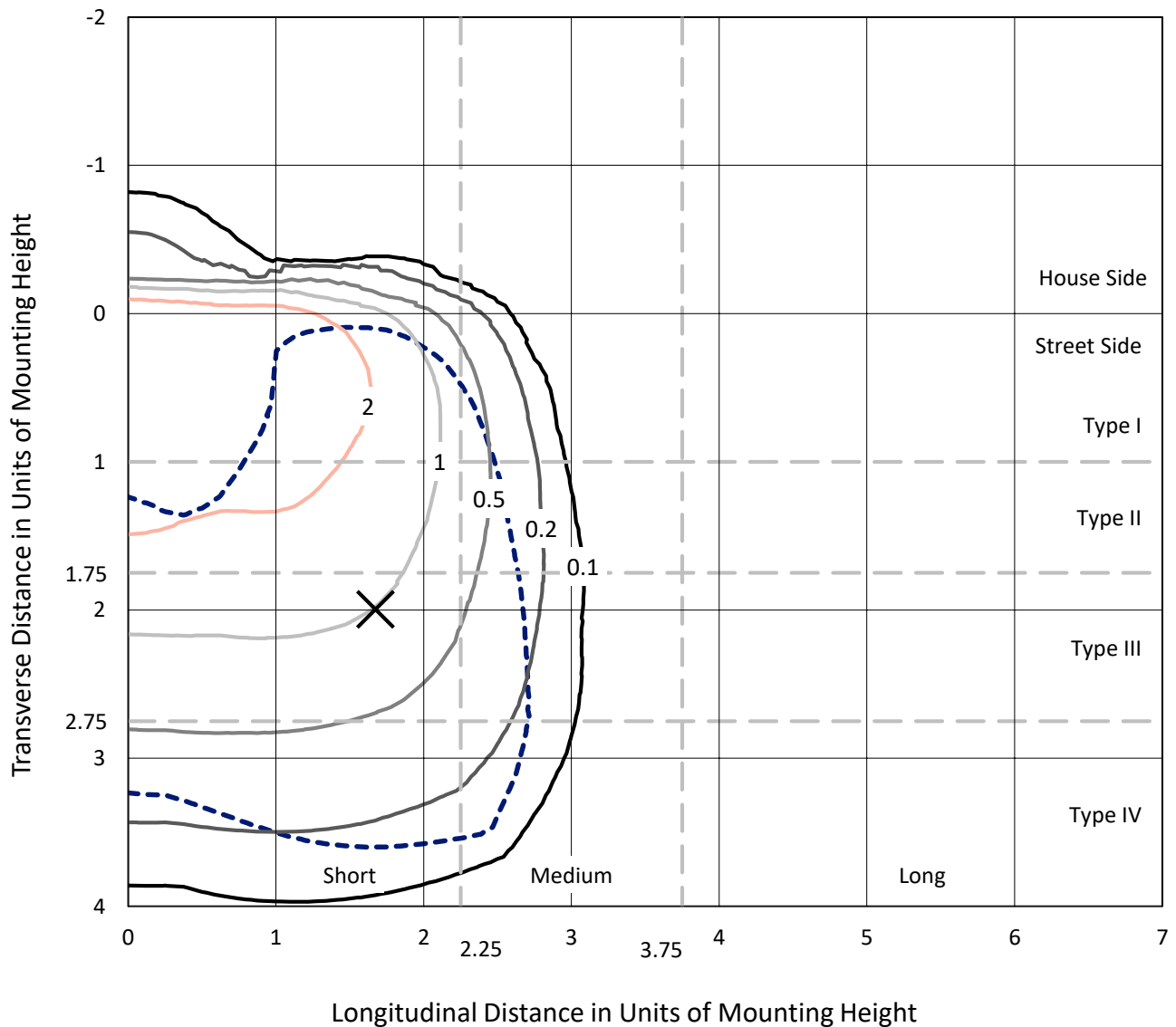


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

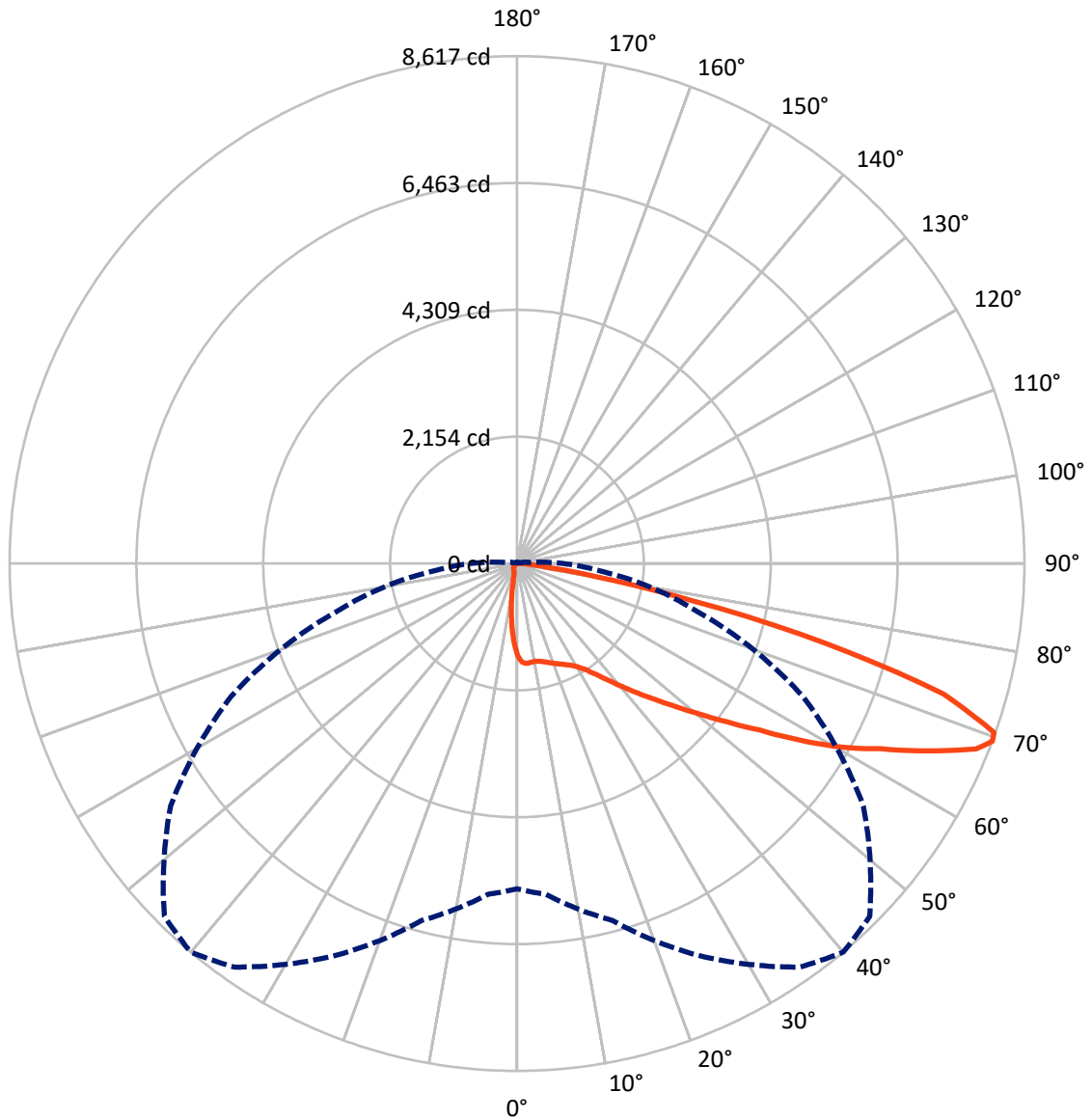


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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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	613.5	0.0	613.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	9873.2	0.0	9873.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	10486.7	0.0	10486.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	1.2
10°-20°	312.4	3.0
20°-30°	526.2	5.0
30°-40°	861.4	8.2
40°-50°	1491.5	14.2
50°-60°	2349.2	22.4
60°-70°	3068.0	29.3
70°-80°	1580.1	15.1
80°-90°	170.9	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°	10486.7	100.0
0°-180°	10486.7	100.0

Coefficient of Utilization



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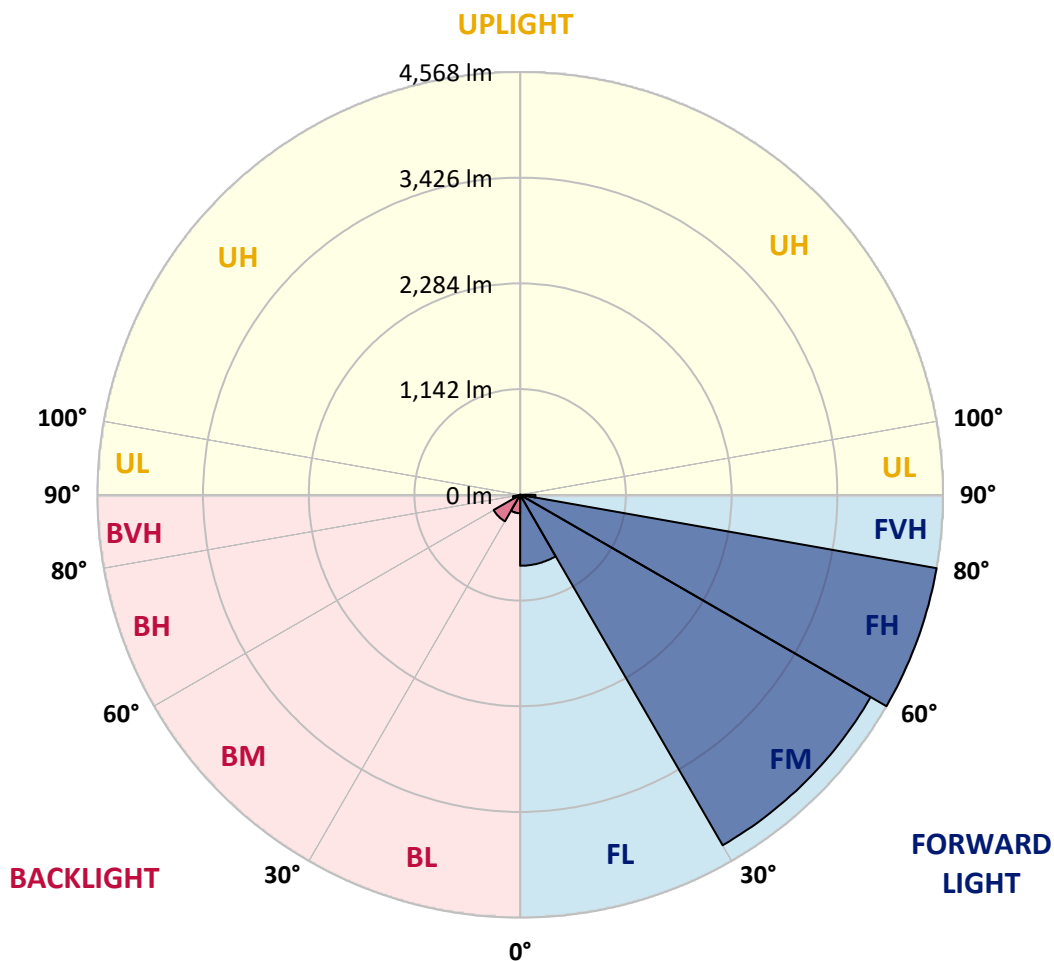
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.9	7.3			
FM	(30°-60°)	4372.3	41.7			
FH	(60°-80°)	4568.4	43.6			G2/5000
FVH	(80°-90°)	165.6	1.6			G2/225
BL	(0°-30°)	198.7	1.9	B1/500		
BM	(30°-60°)	329.8	3.1	B1/1000		
BH	(60°-80°)	79.7	0.8	B0/110		G0/110
BVH	(80°-90°)	5.4	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°	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8
2.5°	1720.3	1711.0	1705.3	1697.9	1688.5	1680.4	1677.2	1654.1	1632.4	1602.4	1568.0
5°	1752.2	1749.0	1739.1	1729.0	1717.8	1705.3	1698.4	1671.0	1639.8	1596.1	1536.1
7.5°	1755.2	1751.5	1739.1	1725.3	1709.7	1694.7	1682.9	1655.4	1626.7	1582.4	1509.3
10°	1750.4	1746.0	1736.5	1721.6	1702.3	1687.8	1676.0	1649.9	1625.4	1585.5	1504.4
12.5°	1744.7	1740.3	1735.9	1728.5	1711.5	1701.6	1691.7	1666.6	1644.8	1611.1	1522.4
15°	1750.4	1747.8	1752.7	1749.7	1740.3	1731.5	1721.6	1699.1	1679.1	1651.0	1555.6
17.5°	1774.1	1774.1	1789.5	1791.6	1782.8	1770.2	1755.9	1733.4	1716.6	1692.9	1594.8
20°	1829.5	1827.7	1847.7	1851.4	1830.2	1810.9	1789.5	1762.2	1749.0	1734.1	1633.5
22.5°	1925.0	1916.3	1928.2	1924.5	1882.6	1852.7	1826.5	1792.7	1785.9	1779.0	1676.6
25°	2049.2	2044.2	2052.4	2015.7	1941.9	1901.3	1870.1	1832.1	1832.1	1839.0	1725.3
27.5°	2229.7	2211.0	2183.4	2118.5	2008.0	1956.3	1922.5	1882.0	1892.6	1918.1	1789.5
30°	2414.4	2393.9	2330.8	2231.0	2088.6	2034.3	1995.0	1952.6	1977.5	2024.3	1875.8
32.5°	2596.8	2573.6	2484.3	2358.3	2204.1	2149.7	2111.7	2064.9	2106.7	2185.4	2001.8
35°	2773.3	2752.8	2649.7	2501.2	2357.6	2312.7	2277.7	2237.2	2290.8	2400.8	2179.7
37.5°	2971.9	2949.4	2824.0	2662.8	2544.3	2511.9	2486.2	2445.7	2539.3	2700.4	2427.5
40°	3215.9	3177.8	3008.7	2848.3	2760.2	2744.7	2727.2	2721.5	2867.0	3089.9	2757.8
42.5°	3495.5	3433.2	3202.2	3043.6	2997.4	3008.7	3004.3	3029.3	3277.1	3574.2	3159.8
45°	3775.2	3694.7	3417.5	3252.1	3258.3	3297.7	3322.0	3421.9	3790.9	4129.8	3592.3
47.5°	4012.4	3933.2	3624.1	3477.5	3552.3	3629.8	3695.9	3885.0	4318.9	4676.7	3928.8
50°	4215.3	4140.4	3843.3	3725.3	3893.8	4018.7	4126.0	4406.3	4886.9	5092.9	4164.8
52.5°	4381.3	4331.4	4070.5	4009.3	4283.9	4466.8	4624.2	4960.0	5390.1	5431.3	4348.3
55°	4543.0	4507.4	4314.5	4347.0	4742.1	4991.2	5190.4	5547.3	5823.3	5713.3	4524.3
57.5°	4729.1	4696.5	4592.9	4775.1	5344.5	5657.9	5875.1	6067.9	6204.7	6001.8	4690.3
60°	4918.8	4900.1	4902.6	5250.9	6036.1	6336.9	6456.7	6506.7	6579.1	6273.3	4699.7
62.5°	5099.7	5135.4	5256.5	5780.2	6698.3	6929.3	6989.9	7039.2	6954.4	6316.4	4342.0
65°	5406.2	5464.4	5753.4	6488.7	7426.9	7674.1	7736.4	7567.3	7013.7	5759.6	3531.8
67.5°	5556.1	5662.3	6177.8	7149.1	8133.5	8408.1	8385.0	7601.6	6293.9	4391.9	2266.5
69°	5524.9	5637.9	6275.9	7351.3	8368.1	8617.2	8470.6	7181.5	5362.0	3181.6	1391.4
70°	5401.3	5515.5	6225.3	7343.9	8398.1	8595.4	8312.0	6662.8	4533.6	2326.4	870.1
72.5°	4510.6	4609.2	5526.8	6637.8	7736.4	7576.0	6953.7	4615.9	2209.1	633.6	196.0
75°	2776.5	2831.5	3965.6	5000.6	5843.1	5431.3	4632.9	2296.5	658.5	179.1	108.6
77.5°	1467.0	1491.8	2171.0	2947.5	3704.1	3064.8	2374.5	895.7	303.4	112.3	78.6
80°	867.1	885.8	1169.2	1347.7	1603.0	1339.0	949.5	549.9	217.2	70.6	69.9
82.5°	496.2	508.0	847.7	749.1	631.7	539.3	472.5	521.1	130.4	47.4	72.4
85°	182.3	184.7	476.9	569.9	375.8	223.4	234.7	431.9	35.0	29.9	56.9
87.5°	84.9	83.0	245.3	349.0	219.7	141.7	182.9	94.8	13.7	19.3	15.7
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°	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8
2.5°	1548.1	1524.9	1483.0	1440.0	1396.4	1362.7	1329.5	1303.4	1294.6	1278.4	1279.7
5°	1500.5	1458.2	1370.7	1282.1	1189.8	1113.6	1041.8	983.8	955.7	926.9	926.9
7.5°	1459.3	1397.7	1260.9	1116.7	967.5	842.1	729.1	644.2	597.3	560.0	559.3
10°	1443.8	1360.2	1169.2	962.6	754.7	583.7	449.4	363.3	318.9	290.3	289.0
12.5°	1450.6	1347.0	1098.6	820.2	559.3	375.2	260.2	204.8	186.1	177.3	177.3
15°	1470.6	1343.4	1028.0	681.0	395.1	234.7	172.9	157.9	156.7	156.7	156.7
17.5°	1495.0	1344.6	955.7	545.5	269.0	167.9	149.1	147.3	148.6	148.6	148.6
20°	1519.9	1345.2	877.7	420.1	189.8	146.1	140.4	139.9	141.1	141.1	141.7
22.5°	1550.5	1348.3	799.6	314.0	156.7	138.0	133.7	133.7	134.2	134.2	133.7
25°	1585.5	1354.5	718.5	232.8	142.9	132.3	128.6	128.0	128.6	128.0	127.3
27.5°	1629.2	1363.2	627.9	182.3	136.7	126.7	123.6	123.6	122.9	122.4	121.8
30°	1684.1	1373.3	526.2	154.8	130.4	121.8	118.5	118.0	117.4	116.2	116.2
32.5°	1767.9	1395.1	425.7	140.4	123.6	114.8	112.3	112.3	111.1	110.0	109.3
35°	1896.3	1438.2	335.9	131.6	116.2	107.4	104.3	104.3	103.0	102.3	101.7
37.5°	2074.3	1503.7	260.9	123.6	108.6	99.2	96.1	95.5	94.3	93.0	92.5
40°	2310.9	1585.0	205.4	116.2	101.2	91.1	88.6	87.4	84.9	83.0	83.0
42.5°	2607.9	1677.2	166.6	107.9	92.5	83.7	81.7	79.9	75.5	73.6	72.9
45°	2918.9	1760.2	141.1	98.7	83.7	76.2	75.0	71.8	66.2	64.3	64.3
47.5°	3143.0	1779.7	124.2	89.9	75.5	68.1	67.4	61.8	56.9	55.5	54.9
50°	3282.7	1741.6	110.5	81.2	68.1	60.5	58.7	51.8	48.7	47.4	46.8
52.5°	3376.9	1673.6	99.2	73.6	61.1	53.6	49.2	44.4	41.8	40.5	40.5
55°	3452.5	1577.3	88.1	66.7	55.5	48.1	41.8	38.0	35.6	34.3	34.3
57.5°	3473.7	1446.9	76.8	61.1	49.9	42.4	35.6	33.1	29.9	29.4	29.4
60°	3319.6	1211.5	68.1	54.3	44.9	36.8	31.2	28.1	25.0	24.4	23.7
62.5°	2913.2	937.6	59.9	48.1	39.4	31.8	26.9	23.1	20.6	20.6	20.6
65°	2222.3	628.6	52.5	41.8	34.3	26.9	23.1	18.7	17.5	17.5	18.1
67.5°	1330.2	342.1	44.9	35.6	29.4	22.5	19.3	16.3	15.7	16.3	16.3
69°	779.7	201.0	40.5	31.8	25.5	20.0	16.8	14.3	15.7	16.3	16.3
70°	481.3	135.5	37.4	28.7	23.1	18.1	15.7	13.7	15.0	15.7	15.7
72.5°	134.2	69.9	29.9	22.5	18.7	15.0	12.4	12.4	14.3	15.0	15.0
75°	87.4	51.8	23.1	16.8	14.3	11.9	10.6	11.9	13.7	14.3	14.3
77.5°	72.4	42.4	18.7	13.7	11.9	11.3	10.0	10.6	12.4	13.1	13.1
80°	66.2	29.9	15.0	12.4	10.6	10.0	9.4	8.7	11.3	11.9	11.9
82.5°	63.1	23.7	13.1	11.3	10.0	8.7	8.0	8.7	10.0	10.6	11.3
85°	39.4	15.7	11.9	10.6	8.7	8.0	8.0	8.0	9.4	10.0	10.0
87.5°	14.3	12.4	10.6	8.7	7.5	7.5	7.5	7.5	8.0	9.4	9.4
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)