

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: P193731

Luminaire Tested: **GAN-AF-03-LED-U-SL4-8030-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193731
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-03-LED-U-SL4-8030-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 7930 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
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: 28.75 FT

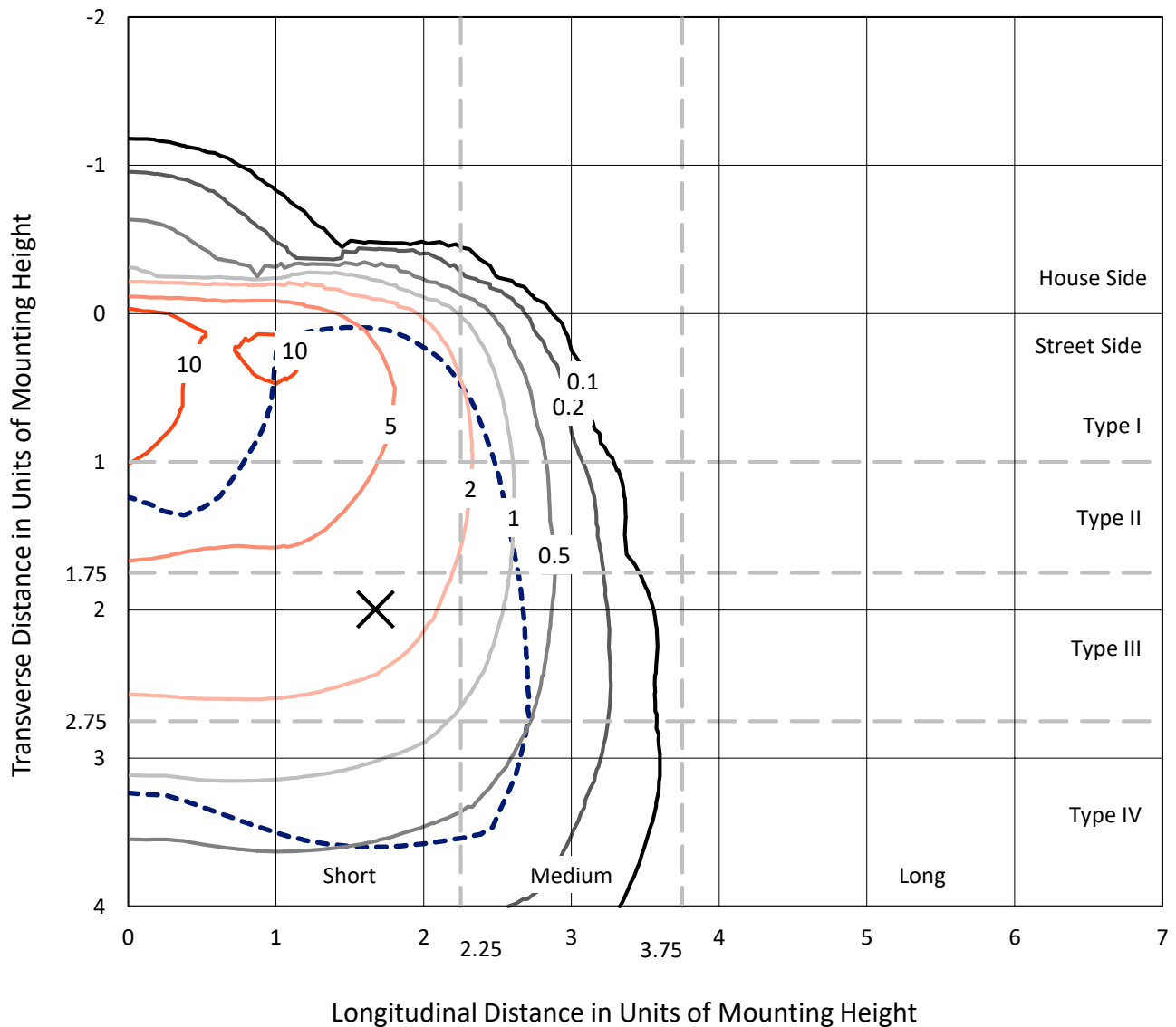


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

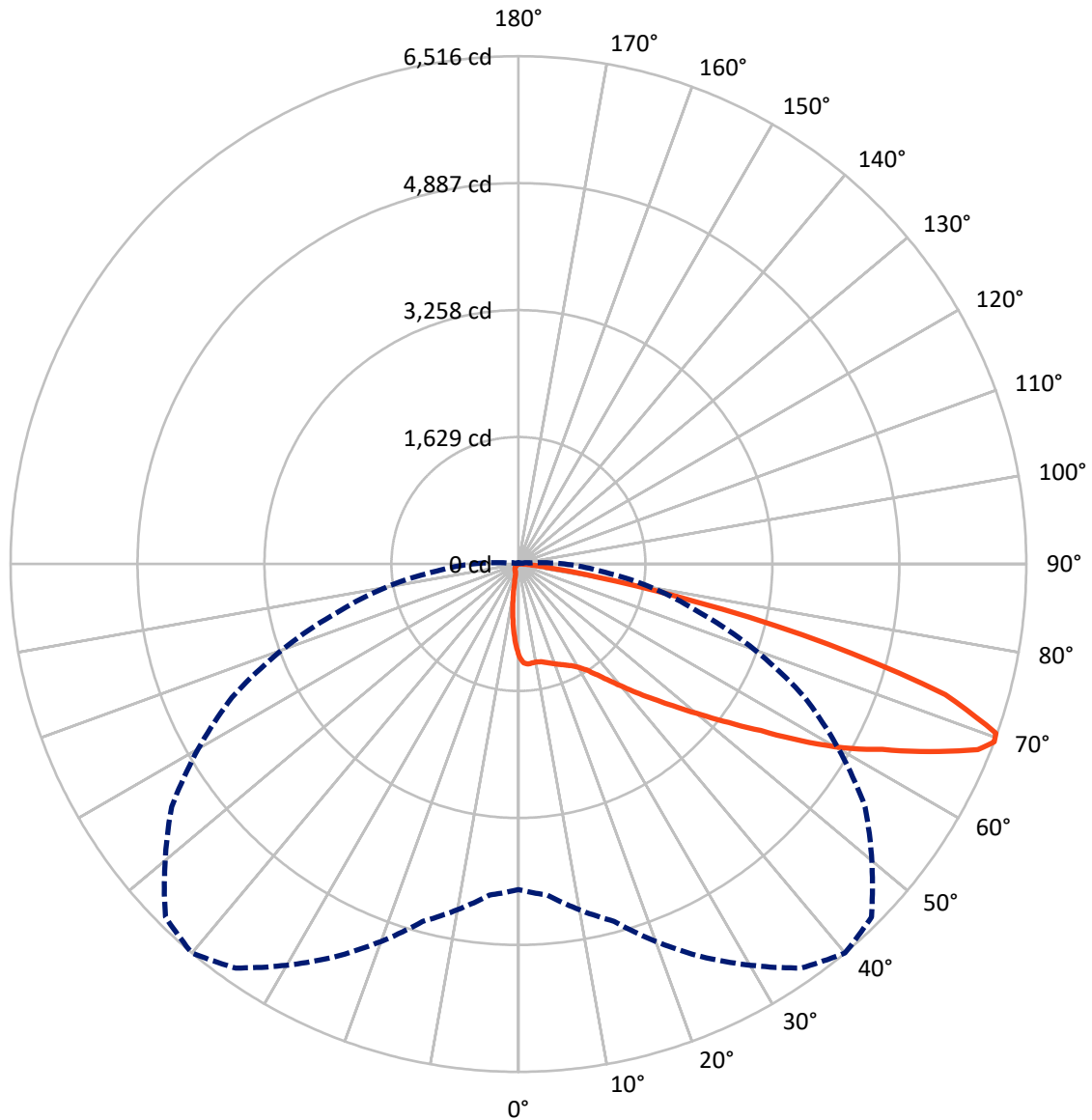


Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Semi-Cutoff

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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	464.0	0.0	464.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	7466.1	0.0	7466.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	7930.0	0.0	7930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.2
10°-20°	236.2	3.0
20°-30°	397.9	5.0
30°-40°	651.4	8.2
40°-50°	1127.8	14.2
50°-60°	1776.5	22.4
60°-70°	2320.0	29.3
70°-80°	1194.9	15.1
80°-90°	129.3	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°	7930.0	100.0
0°-180°	7930.0	100.0

Coefficient of Utilization



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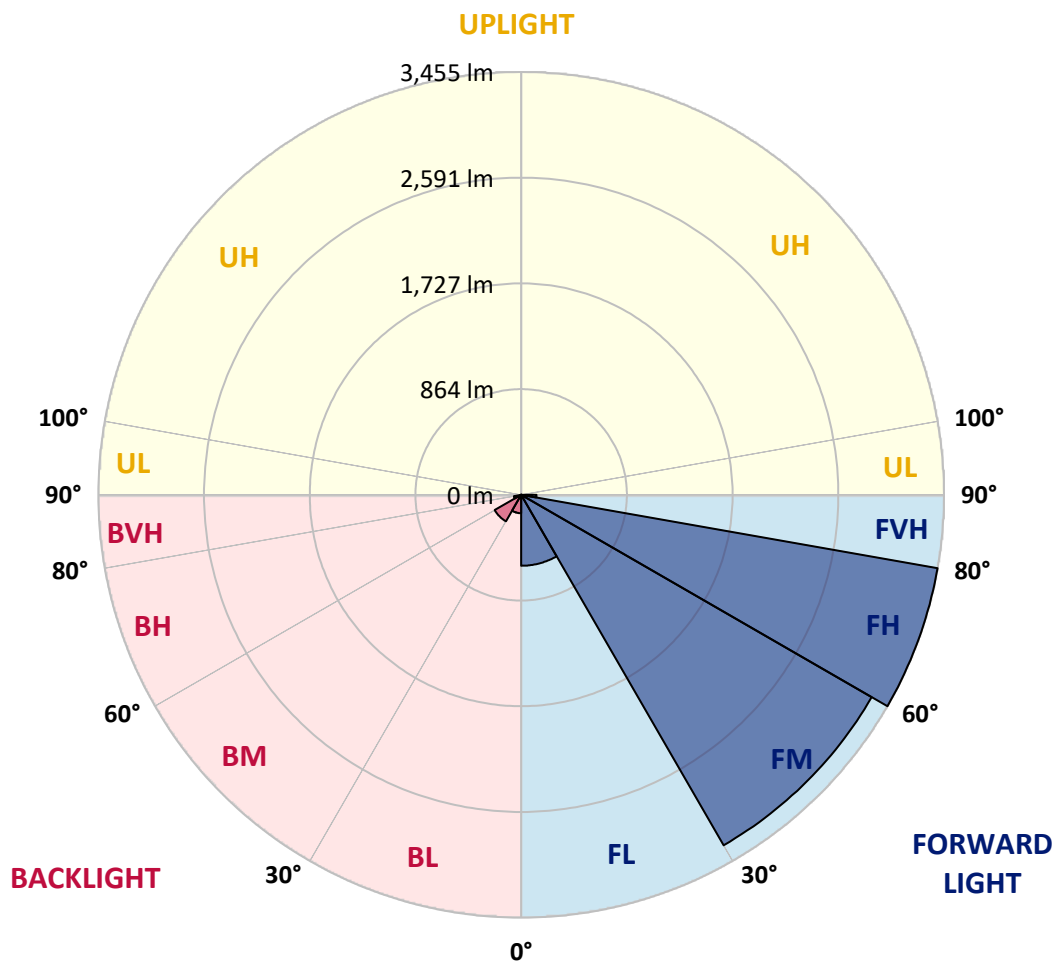
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.9	7.3			
FM	(30°-60°)	3306.3	41.7			
FH	(60°-80°)	3454.6	43.6			G2/5000
FVH	(80°-90°)	125.2	1.6			G2/225
BL	(0°-30°)	150.3	1.9	B1/500		
BM	(30°-60°)	249.4	3.1	B1/1000		
BH	(60°-80°)	60.3	0.8	B0/110		G0/110
BVH	(80°-90°)	4.1	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°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1300.9	1293.8	1289.6	1283.9	1276.8	1270.7	1268.3	1250.9	1234.3	1211.7	1185.7
5°	1325.0	1322.6	1315.1	1307.5	1299.0	1289.6	1284.4	1263.6	1240.0	1207.0	1161.7
7.5°	1327.3	1324.5	1315.1	1304.7	1292.9	1281.5	1272.6	1251.8	1230.1	1196.6	1141.4
10°	1323.6	1320.3	1313.2	1301.8	1287.2	1276.4	1267.4	1247.6	1229.2	1198.9	1137.6
12.5°	1319.3	1316.0	1312.7	1307.0	1294.3	1286.7	1279.2	1260.3	1243.8	1218.3	1151.3
15°	1323.6	1321.7	1325.4	1323.1	1316.0	1309.4	1301.8	1284.9	1269.7	1248.5	1176.3
17.5°	1341.5	1341.5	1353.3	1354.7	1348.1	1338.7	1327.8	1310.8	1298.1	1280.1	1206.0
20°	1383.5	1382.1	1397.2	1400.0	1384.0	1369.3	1353.3	1332.5	1322.6	1311.3	1235.3
22.5°	1455.7	1449.1	1458.1	1455.3	1423.6	1401.0	1381.1	1355.7	1350.5	1345.3	1267.9
25°	1549.7	1545.9	1552.0	1524.2	1468.5	1437.8	1414.2	1385.4	1385.4	1390.6	1304.7
27.5°	1686.1	1671.9	1651.1	1602.1	1518.5	1479.3	1453.8	1423.2	1431.2	1450.5	1353.3
30°	1825.8	1810.2	1762.5	1687.0	1579.4	1538.3	1508.6	1476.5	1495.4	1530.8	1418.4
32.5°	1963.6	1946.2	1878.7	1783.3	1666.7	1625.7	1596.9	1561.5	1593.1	1652.6	1513.8
35°	2097.2	2081.6	2003.7	1891.4	1782.8	1748.9	1722.4	1691.7	1732.3	1815.4	1648.3
37.5°	2247.3	2230.3	2135.4	2013.7	1924.0	1899.4	1880.1	1849.4	1920.2	2042.0	1835.7
40°	2431.9	2403.1	2275.2	2153.9	2087.3	2075.5	2062.3	2058.0	2168.0	2336.5	2085.4
42.5°	2643.3	2596.1	2421.5	2301.6	2266.7	2275.2	2271.9	2290.7	2478.1	2702.8	2389.4
45°	2854.8	2793.9	2584.3	2459.3	2464.0	2493.7	2512.1	2587.6	2866.6	3122.9	2716.5
47.5°	3034.2	2974.2	2740.6	2629.7	2686.3	2744.8	2794.9	2937.9	3265.9	3536.4	2970.9
50°	3187.6	3130.9	2906.3	2817.0	2944.5	3038.9	3120.1	3332.0	3695.5	3851.3	3149.4
52.5°	3313.1	3275.4	3078.1	3031.8	3239.5	3377.8	3496.8	3750.7	4075.9	4107.1	3288.1
55°	3435.4	3408.5	3262.6	3287.2	3586.0	3774.3	3924.9	4194.9	4403.5	4320.4	3421.2
57.5°	3576.1	3551.5	3473.2	3611.0	4041.5	4278.4	4442.7	4588.6	4691.9	4538.5	3546.8
60°	3719.6	3705.4	3707.3	3970.7	4564.5	4792.0	4882.6	4920.4	4975.1	4743.9	3553.9
62.5°	3856.4	3883.3	3974.9	4371.0	5065.3	5239.9	5285.7	5323.0	5258.8	4776.4	3283.4
65°	4088.2	4132.1	4350.7	4906.7	5616.2	5803.1	5850.3	5722.4	5303.7	4355.4	2670.7
67.5°	4201.5	4281.7	4671.6	5406.1	6150.5	6358.2	6340.7	5748.3	4759.4	3321.2	1713.9
69°	4177.9	4263.3	4745.7	5559.0	6328.0	6516.3	6405.4	5430.6	4054.7	2405.9	1052.1
70°	4084.4	4170.8	4707.5	5553.4	6350.6	6499.8	6285.5	5038.4	3428.3	1759.2	658.0
72.5°	3410.9	3485.4	4179.3	5019.5	5850.3	5729.0	5258.4	3490.6	1670.5	479.1	148.2
75°	2099.6	2141.1	2998.8	3781.4	4418.6	4107.1	3503.4	1736.6	498.0	135.5	82.1
77.5°	1109.3	1128.1	1641.7	2228.9	2801.0	2317.6	1795.6	677.4	229.4	85.0	59.5
80°	655.6	669.8	884.1	1019.1	1212.2	1012.5	718.0	415.9	164.3	53.3	52.9
82.5°	375.3	384.2	641.0	566.4	477.7	407.8	357.3	394.1	98.7	35.9	54.8
85°	137.8	139.7	360.6	431.0	284.2	169.0	177.5	326.6	26.4	22.7	43.0
87.5°	64.2	62.8	185.5	263.9	166.2	107.1	138.3	71.7	10.4	14.6	11.8
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°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1170.6	1153.2	1121.5	1089.0	1055.9	1030.4	1005.4	985.6	979.0	966.7	967.7
5°	1134.7	1102.7	1036.6	969.5	899.7	842.1	787.8	743.9	722.7	701.0	701.0
7.5°	1103.6	1056.9	953.5	844.5	731.6	636.8	551.3	487.1	451.7	423.4	422.9
10°	1091.8	1028.5	884.1	727.9	570.7	441.3	339.9	274.7	241.2	219.5	218.5
12.5°	1097.0	1018.6	830.8	620.2	422.9	283.7	196.8	154.8	140.7	134.1	134.1
15°	1112.1	1015.8	777.4	515.0	298.8	177.5	130.8	119.4	118.5	118.5	118.5
17.5°	1130.5	1016.7	722.7	412.5	203.4	127.0	112.8	111.4	112.3	112.3	112.3
20°	1149.4	1017.2	663.7	317.7	143.5	110.5	106.2	105.7	106.7	106.7	107.1
22.5°	1172.5	1019.6	604.7	237.4	118.5	104.3	101.0	101.0	101.5	101.5	101.0
25°	1198.9	1024.3	543.3	176.1	108.1	100.1	97.2	96.8	97.2	96.8	96.3
27.5°	1232.0	1030.9	474.9	137.8	103.4	95.8	93.5	93.5	93.0	92.5	92.0
30°	1273.5	1038.5	397.9	117.1	98.7	92.0	89.7	89.2	88.7	87.8	87.8
32.5°	1336.8	1055.0	321.9	106.2	93.5	86.9	85.0	85.0	84.0	83.1	82.6
35°	1434.0	1087.5	253.9	99.6	87.8	81.2	78.8	78.8	77.9	77.4	76.9
37.5°	1568.5	1137.1	197.3	93.5	82.1	75.1	72.7	72.2	71.3	70.3	69.9
40°	1747.4	1198.5	155.3	87.8	76.5	68.9	67.0	66.1	64.2	62.8	62.8
42.5°	1972.1	1268.3	126.0	81.7	69.9	63.3	61.8	60.4	57.1	55.7	55.2
45°	2207.2	1331.1	106.7	74.6	63.3	57.6	56.6	54.3	50.0	48.6	48.6
47.5°	2376.6	1345.7	93.9	68.0	57.1	51.5	51.0	46.7	43.0	42.0	41.5
50°	2482.4	1316.9	83.5	61.4	51.5	45.8	44.4	39.2	36.8	35.9	35.4
52.5°	2553.7	1265.5	75.1	55.7	46.3	40.6	37.3	33.5	31.6	30.7	30.7
55°	2610.8	1192.8	66.6	50.5	42.0	36.3	31.6	28.8	26.9	26.0	26.0
57.5°	2626.8	1094.2	58.1	46.3	37.8	32.1	26.9	25.0	22.7	22.2	22.2
60°	2510.2	916.2	51.5	41.1	34.0	27.8	23.6	21.2	18.9	18.4	17.9
62.5°	2202.9	709.0	45.3	36.3	29.7	24.1	20.3	17.5	15.6	15.6	15.6
65°	1680.4	475.3	39.7	31.6	26.0	20.3	17.5	14.2	13.2	13.2	13.7
67.5°	1005.9	258.7	34.0	26.9	22.2	17.0	14.6	12.3	11.8	12.3	12.3
69°	589.6	152.0	30.7	24.1	19.4	15.1	12.7	10.9	11.8	12.3	12.3
70°	363.9	102.4	28.3	21.7	17.5	13.7	11.8	10.4	11.3	11.8	11.8
72.5°	101.5	52.9	22.7	17.0	14.2	11.3	9.4	9.4	10.9	11.3	11.3
75°	66.1	39.2	17.5	12.7	10.9	9.0	8.0	9.0	10.4	10.9	10.9
77.5°	54.8	32.1	14.2	10.4	9.0	8.5	7.6	8.0	9.4	9.9	9.9
80°	50.0	22.7	11.3	9.4	8.0	7.6	7.1	6.6	8.5	9.0	9.0
82.5°	47.7	17.9	9.9	8.5	7.6	6.6	6.1	6.6	7.6	8.0	8.5
85°	29.7	11.8	9.0	8.0	6.6	6.1	6.1	6.1	7.1	7.6	7.6
87.5°	10.9	9.4	8.0	6.6	5.7	5.7	5.7	5.7	6.1	7.1	7.1
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)