

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: P322828

Luminaire Tested: **GAN-SA4A-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12408 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

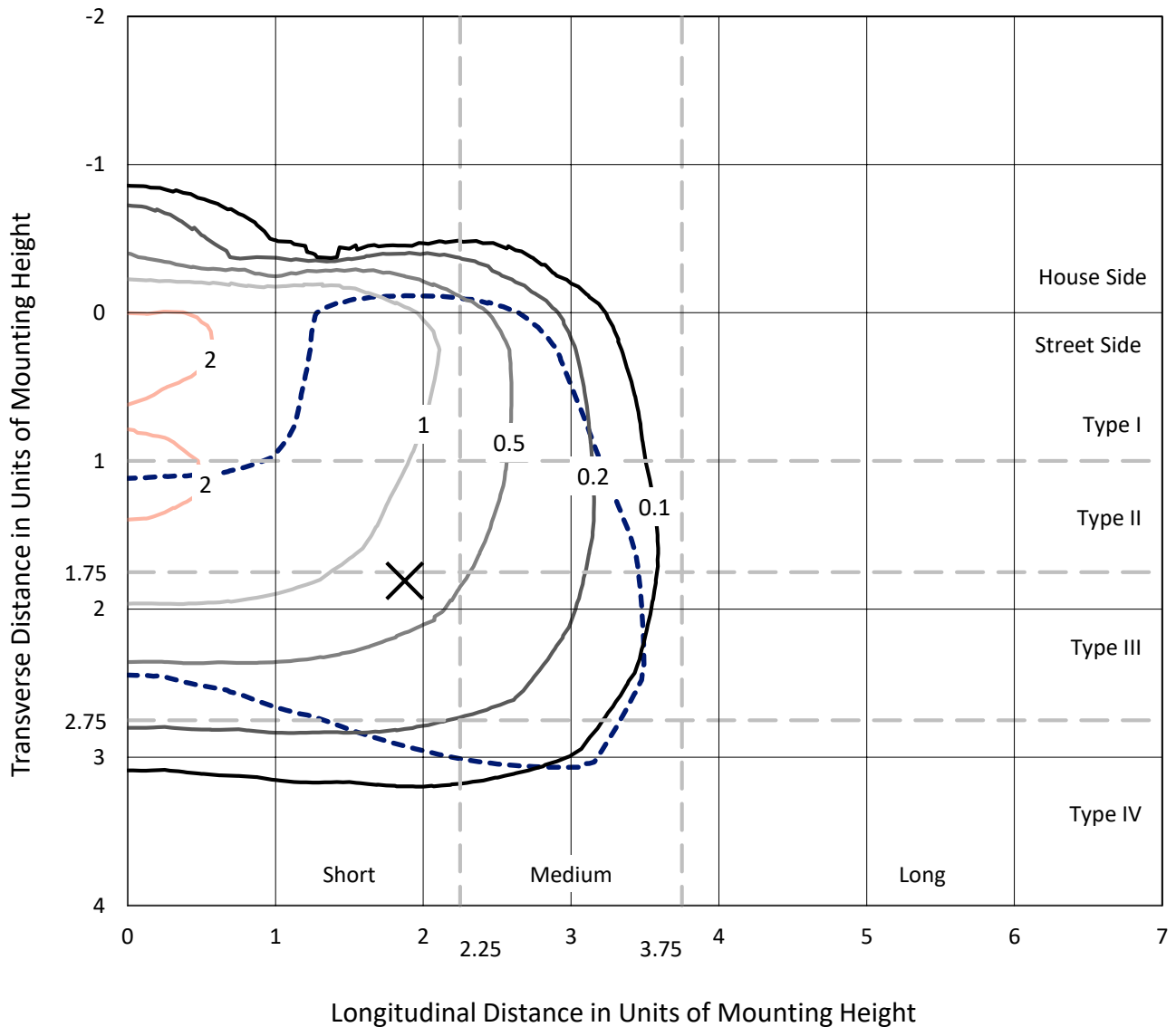
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

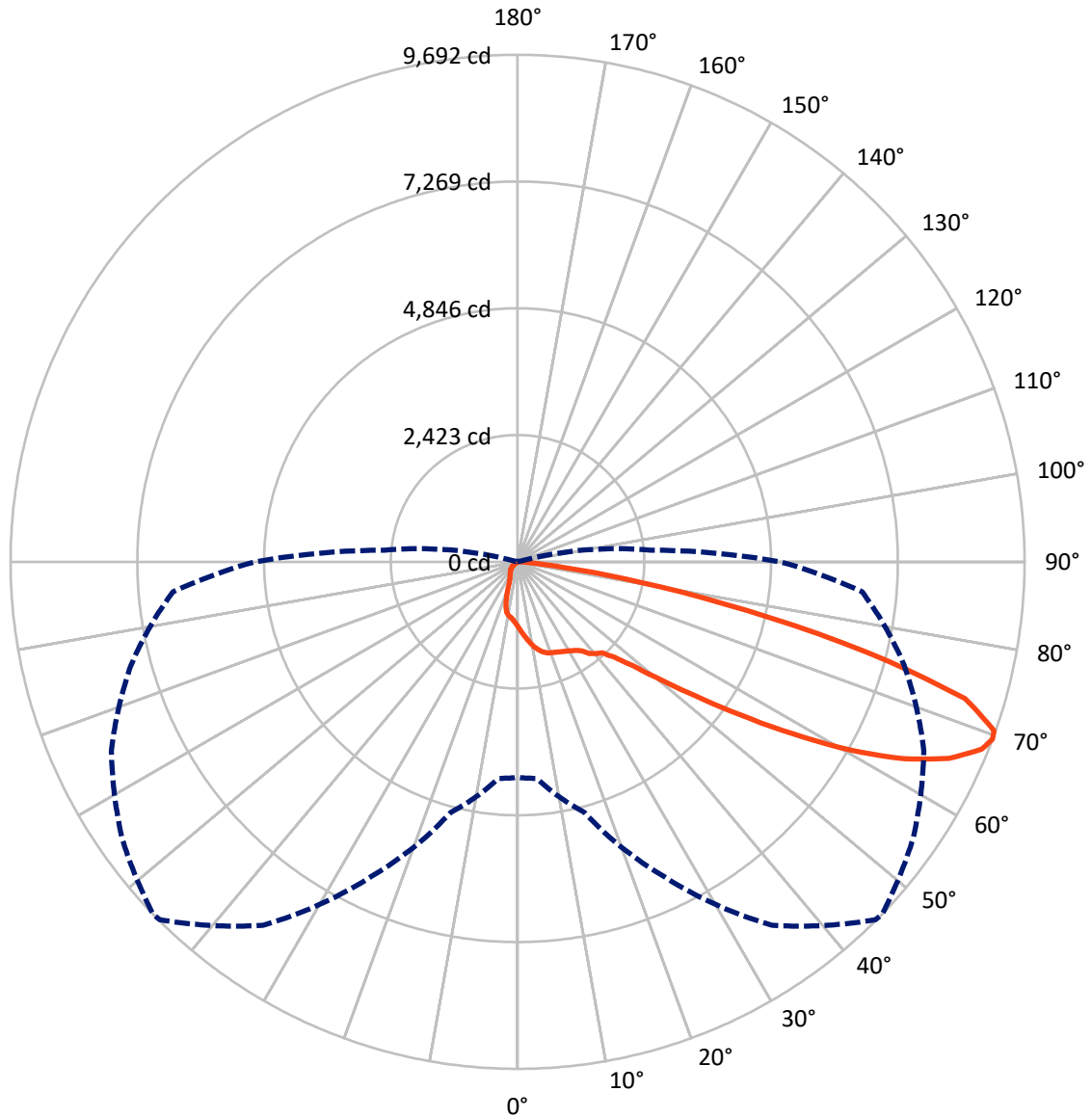
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.4	0.0	1273.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	11134.6	0.0	11134.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	12408.0	0.0	12408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.0
10°-20°	375.4	3.0
20°-30°	590.4	4.8
30°-40°	846.6	6.8
40°-50°	1463.3	11.8
50°-60°	2890.9	23.3
60°-70°	4040.3	32.6
70°-80°	1951.9	15.7
80°-90°	125.5	1.0
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°	12408.0	100.0
0°-180°	12408.0	100.0

Coefficient of Utilization



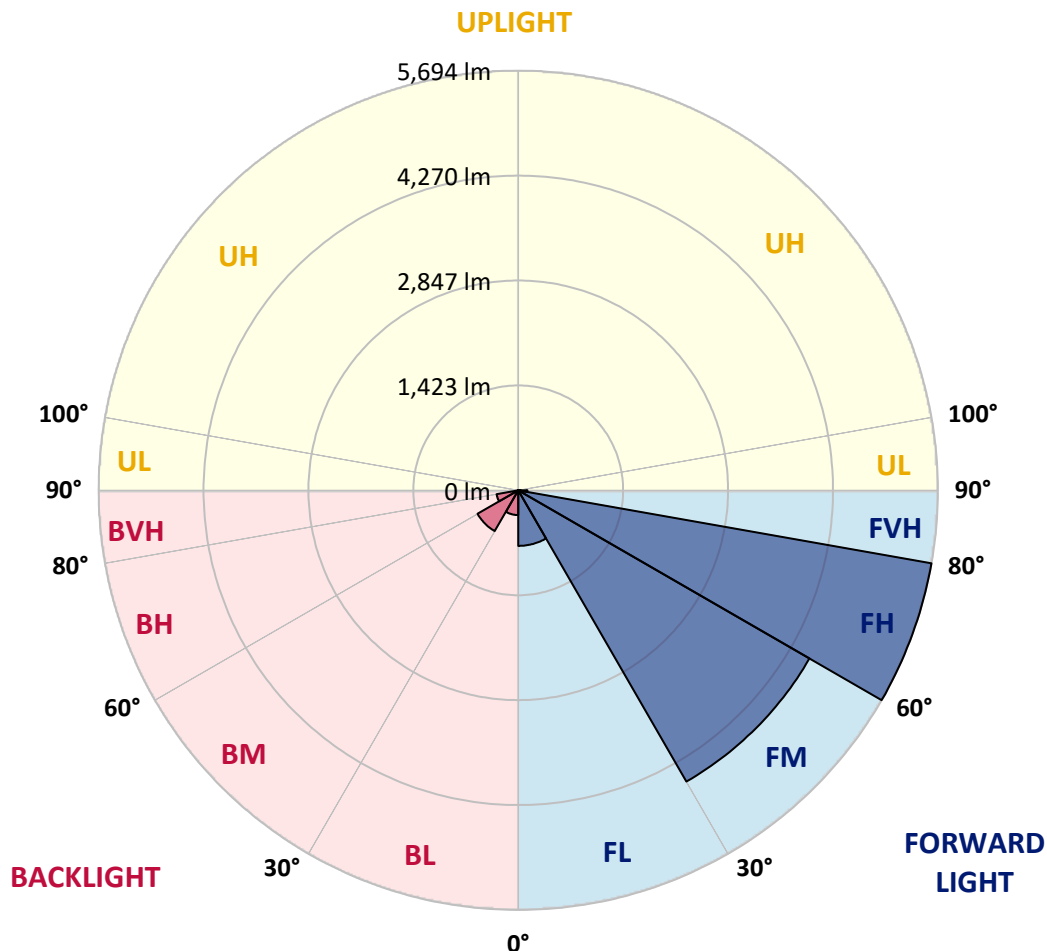
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.9	6.1			
FM (30°-60°)	4562.7	36.8			
FH (60°-80°)	5693.6	45.9			G3/7500
FVH (80°-90°)	124.4	1.0			G2/225
BL (0°-30°)	335.6	2.7	B1/500		
BM (30°-60°)	638.1	5.1	B1/1000		
BH (60°-80°)	298.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2
2.5°	1381.1	1379.4	1371.2	1367.7	1348.0	1336.3	1331.7	1317.1	1296.2	1275.2	1252.0
5°	1538.2	1537.6	1522.5	1507.9	1470.7	1435.8	1429.4	1395.7	1348.5	1304.3	1260.1
7.5°	1698.8	1691.2	1676.1	1648.1	1594.0	1538.2	1533.0	1485.3	1418.3	1354.4	1290.9
10°	1834.9	1830.2	1810.5	1768.0	1704.6	1641.2	1634.8	1576.0	1500.4	1421.8	1341.0
12.5°	1940.8	1937.3	1911.1	1858.2	1790.7	1724.9	1716.2	1663.9	1583.0	1495.1	1399.7
15°	2005.3	2003.6	1971.6	1915.2	1848.9	1791.8	1784.3	1738.3	1663.3	1571.4	1463.7
17.5°	2020.5	2021.1	1987.9	1930.9	1876.2	1835.5	1829.7	1794.7	1731.9	1640.6	1527.7
20°	1986.7	1993.7	1964.0	1914.6	1880.9	1859.3	1854.7	1833.7	1780.8	1694.7	1578.9
22.5°	1939.0	1942.5	1922.2	1889.0	1875.0	1879.1	1876.8	1865.1	1820.3	1741.2	1629.5
25°	1909.9	1909.9	1897.7	1869.8	1879.1	1904.1	1904.7	1902.4	1866.9	1798.2	1691.2
27.5°	1908.8	1905.3	1891.3	1870.4	1896.0	1934.4	1936.7	1952.4	1930.3	1867.5	1768.0
30°	1955.3	1951.2	1921.6	1894.2	1926.8	1968.1	1973.9	2008.3	1997.2	1942.5	1853.5
32.5°	2064.1	2049.6	1983.8	1939.0	1963.5	2012.9	2020.5	2075.2	2092.6	2035.0	1936.1
35°	2213.0	2167.1	2072.3	2024.0	2026.3	2078.1	2085.1	2165.3	2217.1	2120.0	2000.1
37.5°	2418.4	2395.7	2241.5	2112.4	2122.9	2201.4	2221.8	2309.0	2294.5	2166.5	2072.8
40°	2868.7	2833.2	2669.1	2360.2	2215.4	2301.5	2307.9	2354.4	2355.6	2271.8	2224.1
42.5°	3481.9	3467.3	3294.5	2809.9	2397.5	2368.4	2380.0	2458.5	2546.4	2494.0	2491.7
45°	4160.8	4153.2	3970.0	3406.8	2765.7	2587.7	2602.2	2707.5	2875.7	2887.3	2961.2
47.5°	4707.1	4703.6	4598.3	4072.9	3329.5	2959.4	2964.1	3075.8	3371.3	3517.4	3635.5
50°	5205.1	5221.9	5138.7	4793.8	4097.4	3541.8	3530.7	3605.2	4079.9	4319.0	4465.6
52.5°	5897.4	5921.2	5687.9	5466.3	4903.1	4264.3	4255.6	4333.6	4931.6	5110.8	5137.0
55°	6508.8	6468.1	6283.7	6219.7	5885.7	5156.8	5154.5	5223.1	5755.4	5831.6	5879.9
57.5°	6778.7	6763.0	6852.0	6998.7	6914.9	6211.5	6206.3	6153.9	6492.5	6500.7	6649.0
60°	6949.2	6968.4	7241.2	7693.3	7902.1	7346.5	7312.8	6993.4	7196.5	7178.4	7337.2
62.5°	6821.2	6859.0	7350.0	8103.4	8641.0	8337.3	8289.6	7762.5	7798.0	7735.8	7883.5
65°	6141.7	6200.5	7005.1	8026.1	9007.5	9111.6	9063.3	8441.4	8275.6	8173.2	8091.2
67.5°	4986.9	5021.8	5861.9	7352.9	8842.3	9573.6	9563.7	9036.6	8636.3	8099.4	7462.9
69°	4121.2	4155.6	4964.2	6644.4	8478.7	9672.5	9691.6	9227.4	8567.7	7650.2	6612.4
70°	3490.6	3527.3	4280.6	6037.0	8056.9	9626.5	9660.8	9209.4	8371.0	7130.1	5866.0
72.5°	1830.8	1862.2	2635.4	4159.0	6568.1	8839.4	8943.5	8431.0	7095.8	5178.3	3468.5
75°	575.4	593.4	1029.1	2174.1	4497.1	6873.0	6896.8	6613.5	5038.7	2848.3	1444.5
77.5°	219.3	214.1	342.7	801.1	2273.5	4327.8	4473.8	4132.9	2644.1	1007.0	333.4
80°	118.1	118.7	178.0	331.6	972.7	2224.1	2347.4	2003.0	939.6	314.2	76.8
82.5°	51.2	53.5	100.1	175.7	446.8	820.3	882.0	734.2	358.9	211.2	28.5
85°	11.1	12.2	48.3	95.4	182.1	230.4	241.4	237.9	228.6	164.1	11.1
87.5°	0.0	0.0	21.5	34.3	46.0	52.4	46.0	59.9	126.2	110.5	5.8
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°	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2	1243.2
2.5°	1244.4	1233.9	1215.9	1196.1	1182.1	1167.6	1156.0	1150.7	1144.9	1140.8	1146.1
5°	1242.1	1221.7	1186.8	1153.1	1128.6	1108.8	1092.6	1086.2	1079.8	1075.1	1074.5
7.5°	1262.4	1233.9	1180.4	1131.0	1093.1	1066.4	1044.3	1035.0	1027.4	1023.9	1021.0
10°	1301.4	1264.8	1193.2	1128.6	1079.8	1034.4	986.7	950.0	926.2	915.1	911.0
12.5°	1352.0	1306.1	1217.6	1140.8	1069.9	982.6	881.4	794.1	737.7	719.1	708.0
15°	1411.4	1354.4	1249.6	1156.6	1033.8	874.4	702.8	588.7	536.4	525.9	514.3
17.5°	1468.4	1405.5	1288.0	1159.5	954.7	698.7	514.9	437.5	417.1	424.1	425.9
20°	1518.4	1456.2	1325.8	1133.9	811.0	524.2	398.5	379.3	386.9	400.3	402.6
22.5°	1569.0	1505.0	1360.8	1066.4	627.1	397.9	358.9	363.6	371.2	384.5	386.9
25°	1630.7	1564.4	1393.3	942.5	470.6	338.6	340.9	347.9	355.5	367.7	368.8
27.5°	1701.7	1639.4	1414.9	781.3	349.1	311.2	318.8	329.3	336.8	348.5	350.8
30°	1795.9	1738.3	1421.8	614.3	292.6	286.8	290.3	303.1	314.2	324.6	326.4
32.5°	1884.3	1836.1	1398.6	463.7	271.1	264.1	264.1	271.7	284.5	294.4	296.7
35°	1965.8	1934.4	1324.1	339.2	254.8	243.2	237.4	237.4	245.5	253.7	256.0
37.5°	2073.4	2072.3	1203.7	270.5	239.1	225.7	213.5	204.2	201.3	203.0	204.2
40°	2257.8	2259.6	1046.6	242.6	225.7	207.7	189.1	172.2	156.5	151.3	150.7
42.5°	2545.8	2519.6	882.0	229.2	214.1	189.1	161.1	138.5	114.0	106.5	105.9
45°	3003.1	2847.7	707.4	217.0	201.9	168.1	133.2	102.4	82.6	76.8	76.8
47.5°	3669.2	3278.8	548.0	203.6	185.6	144.3	100.6	73.9	60.5	57.6	58.2
50°	4358.0	3701.2	420.0	186.7	165.8	119.3	74.5	53.5	46.0	46.0	46.5
52.5°	4968.9	4010.7	327.5	168.7	141.4	93.7	56.4	41.9	38.4	37.8	38.4
55°	5540.7	4210.2	250.7	147.8	112.3	69.8	43.1	34.3	32.0	30.8	30.3
57.5°	6092.3	4309.1	187.9	119.3	81.4	50.6	34.3	29.1	26.8	25.0	24.4
60°	6459.4	4228.9	129.2	87.8	56.4	36.7	28.5	25.0	22.1	20.4	19.8
62.5°	6666.5	4009.5	83.2	63.4	40.1	27.3	22.7	20.9	16.9	15.1	15.1
65°	6582.7	3647.7	58.2	45.4	29.1	20.4	16.9	16.9	12.2	9.9	9.3
67.5°	5833.4	3081.6	44.2	33.7	20.9	15.1	12.8	14.5	7.6	4.7	4.7
69°	5018.9	2554.0	37.8	27.9	17.5	12.2	11.1	13.4	5.2	3.5	2.9
70°	4362.1	2203.2	34.3	24.4	14.5	10.5	9.9	12.8	5.2	2.9	2.3
72.5°	2609.8	1228.7	26.2	17.5	9.3	8.1	8.1	14.5	5.2	2.9	2.3
75°	1054.7	432.8	19.2	12.2	7.0	7.0	9.9	18.6	4.7	2.3	1.7
77.5°	239.1	94.8	11.1	7.6	4.7	7.0	11.6	14.5	2.9	1.2	0.0
80°	58.2	23.3	7.0	4.7	2.9	5.2	8.7	8.1	0.6	0.0	0.0
82.5°	19.2	8.1	2.9	2.3	0.6	1.7	4.1	2.3	0.0	0.0	0.0
85°	8.1	4.7	1.2	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)