

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: P382988

Luminaire Tested: **GAN-SA3B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382988
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-SA3B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 11778.5 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

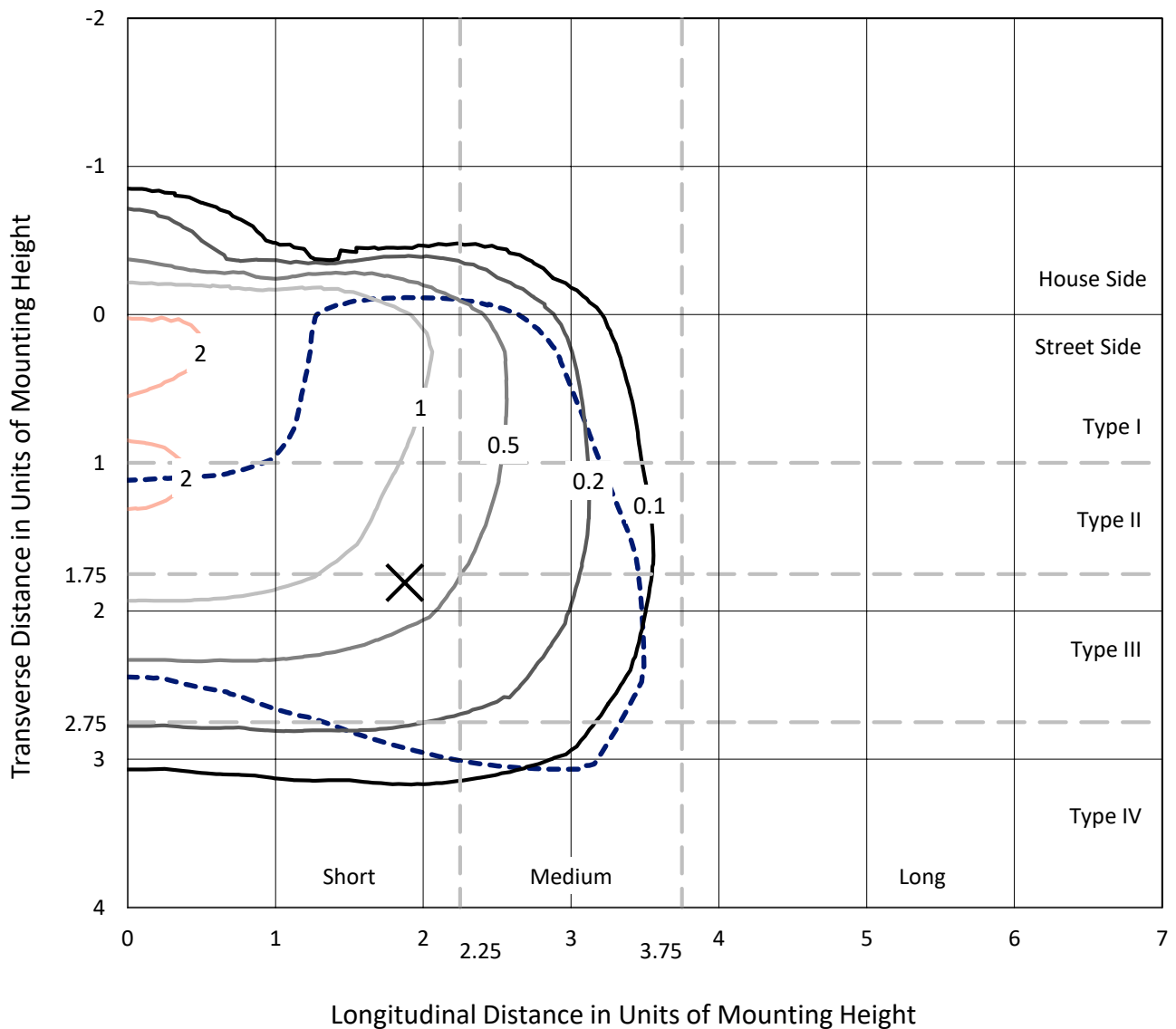
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

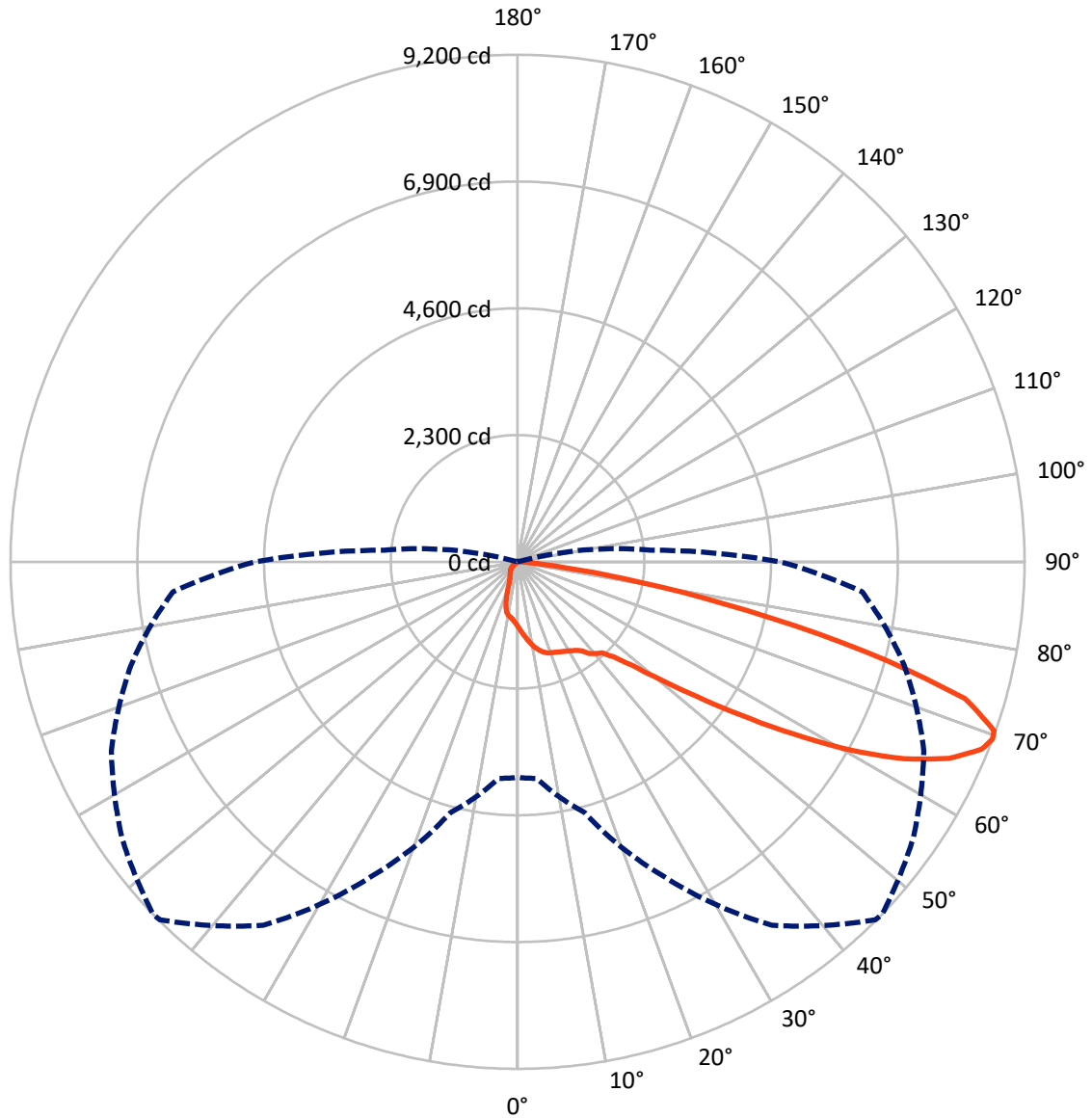
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1208.8	0.0	1208.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10569.7	0.0	10569.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	11778.5	0.0	11778.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	1.0
10°-20°	356.4	3.0
20°-30°	560.4	4.8
30°-40°	803.7	6.8
40°-50°	1389.1	11.8
50°-60°	2744.2	23.3
60°-70°	3835.3	32.6
70°-80°	1852.9	15.7
80°-90°	119.1	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°	11778.5	100.0
0°-180°	11778.5	100.0

Coefficient of Utilization



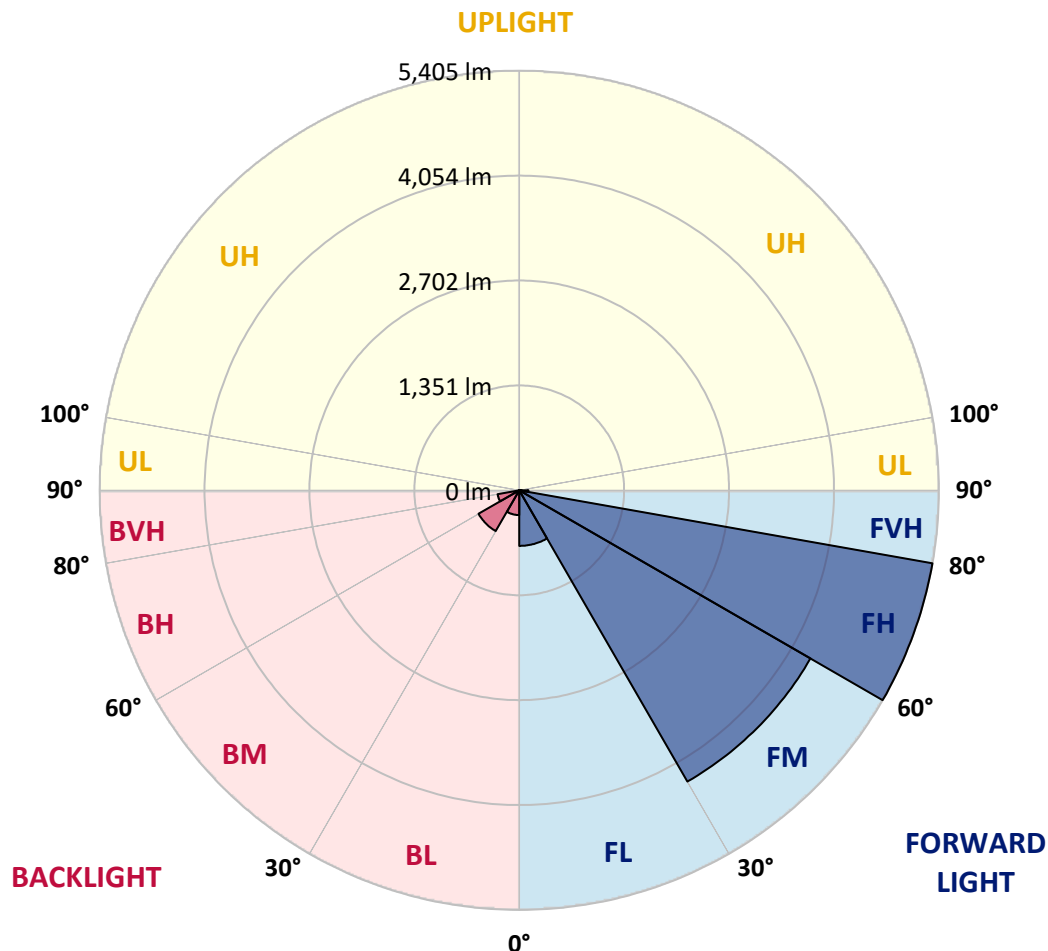
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	715.7	6.1			
FM (30°-60°)	4331.2	36.8			
FH (60°-80°)	5404.7	45.9			G3/7500
FVH (80°-90°)	118.1	1.0			G2/225
BL (0°-30°)	318.6	2.7	B1/500		
BM (30°-60°)	605.8	5.1	B1/1000		
BH (60°-80°)	283.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2
2.5°	1311.1	1309.4	1301.7	1298.3	1279.6	1268.5	1264.1	1250.3	1230.4	1210.5	1188.5
5°	1460.1	1459.6	1445.2	1431.4	1396.1	1362.9	1356.9	1324.8	1280.1	1238.1	1196.2
7.5°	1612.6	1605.4	1591.0	1564.5	1513.2	1460.1	1455.2	1409.9	1346.4	1285.6	1225.5
10°	1741.8	1737.3	1718.6	1678.3	1618.1	1557.9	1551.9	1496.1	1424.2	1349.7	1273.0
12.5°	1842.3	1839.0	1814.2	1763.9	1699.8	1637.4	1629.2	1579.4	1502.7	1419.3	1328.8
15°	1903.6	1901.9	1871.6	1818.0	1755.0	1700.9	1693.7	1650.1	1578.9	1491.6	1389.5
17.5°	1918.0	1918.5	1887.0	1832.9	1781.0	1742.4	1736.9	1703.7	1644.1	1557.4	1450.2
20°	1885.9	1892.5	1864.4	1817.4	1785.4	1765.0	1760.5	1740.7	1690.5	1608.7	1498.8
22.5°	1840.6	1844.0	1824.6	1793.1	1779.9	1783.7	1781.6	1770.5	1728.0	1652.8	1546.8
25°	1813.1	1813.1	1801.4	1775.0	1783.7	1807.5	1808.0	1805.9	1772.2	1707.0	1605.4
27.5°	1812.0	1808.6	1795.4	1775.5	1799.7	1836.3	1838.4	1853.3	1832.4	1772.7	1678.3
30°	1856.1	1852.3	1824.1	1798.2	1829.1	1868.2	1873.8	1906.4	1895.9	1844.0	1759.5
32.5°	1959.4	1945.5	1883.2	1840.6	1863.8	1910.8	1918.0	1969.9	1986.4	1931.8	1837.9
35°	2100.7	2057.1	1967.1	1921.3	1923.5	1972.6	1979.3	2055.5	2104.6	2012.4	1898.7
37.5°	2295.7	2274.2	2127.8	2005.2	2015.1	2089.7	2109.0	2191.8	2178.1	2056.6	1967.7
40°	2723.2	2689.5	2533.7	2240.5	2103.0	2184.7	2190.8	2235.0	2236.1	2156.5	2111.3
42.5°	3305.2	3291.4	3127.4	2667.4	2275.9	2248.2	2259.3	2333.8	2417.2	2367.5	2365.3
45°	3949.7	3942.5	3768.6	3234.0	2625.4	2456.4	2470.2	2570.1	2729.8	2740.8	2810.9
47.5°	4468.3	4464.9	4365.0	3866.3	3160.6	2809.3	2813.7	2919.7	3200.3	3338.9	3451.0
50°	4941.0	4957.0	4878.0	4550.5	3889.5	3362.1	3351.6	3422.3	3872.9	4099.9	4239.1
52.5°	5598.1	5620.8	5399.3	5188.9	4654.4	4048.0	4039.7	4113.7	4681.4	4851.5	4876.4
55°	6178.6	6139.9	5964.9	5904.1	5587.1	4895.2	4893.0	4958.1	5463.4	5535.7	5581.6
57.5°	6434.9	6419.9	6504.4	6643.6	6564.1	5896.4	5891.4	5841.7	6163.1	6170.9	6311.7
60°	6596.7	6614.8	6873.9	7303.0	7501.2	6973.8	6941.8	6638.6	6831.3	6814.3	6965.0
62.5°	6475.2	6511.1	6977.1	7692.3	8202.6	7914.3	7869.1	7368.7	7402.4	7343.3	7483.6
65°	5830.1	5885.9	6649.7	7618.8	8550.5	8649.3	8603.5	8013.2	7855.7	7758.6	7680.7
67.5°	4733.9	4767.0	5564.5	6979.9	8393.7	9087.8	9078.5	8578.2	8198.2	7688.4	7084.2
69°	3912.1	3944.7	4712.3	6307.2	8048.5	9181.7	9200.0	8759.2	8133.0	7262.1	6276.9
70°	3313.5	3348.3	4063.5	5730.7	7648.1	9138.1	9170.7	8742.1	7946.4	6768.3	5568.3
72.5°	1737.9	1767.8	2501.7	3948.1	6234.9	8390.9	8489.8	8003.2	6735.8	4915.6	3292.6
75°	546.2	563.3	976.9	2063.8	4268.9	6524.3	6546.9	6278.0	4783.0	2703.8	1371.2
77.5°	208.2	203.3	325.3	760.4	2158.2	4108.2	4246.8	3923.2	2510.0	956.0	316.4
80°	112.1	112.6	169.0	314.8	923.3	2111.3	2228.4	1901.4	891.9	298.2	72.9
82.5°	48.6	50.8	95.0	166.7	424.1	778.7	837.2	697.0	340.8	200.5	27.0
85°	10.5	11.6	45.8	90.5	172.9	218.7	229.2	225.9	217.1	155.8	10.5
87.5°	0.0	0.0	20.4	32.6	43.6	49.7	43.6	56.9	119.8	104.9	5.5
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°	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2	1180.2
2.5°	1181.3	1171.3	1154.2	1135.5	1122.1	1108.4	1097.4	1092.3	1086.8	1082.9	1088.0
5°	1179.1	1159.7	1126.6	1094.6	1071.4	1052.6	1037.1	1031.0	1025.0	1020.6	1020.0
7.5°	1198.3	1171.3	1120.6	1073.6	1037.7	1012.3	991.3	982.4	975.2	972.0	969.2
10°	1235.4	1200.6	1132.7	1071.4	1025.0	981.9	936.6	901.8	879.2	868.7	864.8
12.5°	1283.4	1239.8	1155.9	1082.9	1015.6	932.8	836.6	753.8	700.2	682.5	672.1
15°	1339.8	1285.6	1186.2	1097.8	981.4	830.0	667.1	558.8	509.2	499.2	488.2
17.5°	1393.9	1334.3	1222.7	1100.6	906.2	663.3	488.8	415.3	396.0	402.6	404.3
20°	1441.4	1382.3	1258.6	1076.3	769.8	497.5	378.3	360.0	367.2	380.0	382.1
22.5°	1489.5	1428.7	1291.7	1012.3	595.4	377.7	340.8	345.1	352.3	365.1	367.2
25°	1548.0	1485.0	1322.6	894.7	446.8	321.4	323.6	330.2	337.4	349.1	350.2
27.5°	1615.3	1556.2	1343.1	741.7	331.4	295.5	302.7	312.5	319.7	330.8	333.0
30°	1704.8	1650.1	1349.7	583.1	277.8	272.3	275.6	287.8	298.2	308.2	309.8
32.5°	1788.8	1742.9	1327.6	440.2	257.4	250.7	250.7	257.9	270.1	279.5	281.6
35°	1866.1	1836.3	1256.9	321.9	241.9	230.8	225.3	225.3	233.1	240.8	242.9
37.5°	1968.3	1967.1	1142.6	256.8	227.0	214.3	202.7	193.9	191.1	192.7	193.9
40°	2143.3	2145.0	993.5	230.3	214.3	197.1	179.5	163.5	148.6	143.6	143.0
42.5°	2416.6	2391.8	837.2	217.6	203.3	179.5	153.0	131.4	108.2	101.1	100.5
45°	2850.7	2703.3	671.6	206.0	191.6	159.6	126.5	97.2	78.4	72.9	72.9
47.5°	3483.1	3112.5	520.2	193.3	176.2	136.9	95.6	70.1	57.5	54.7	55.2
50°	4136.9	3513.4	398.7	177.3	157.4	113.2	70.7	50.8	43.6	43.6	44.2
52.5°	4716.8	3807.2	311.0	160.1	134.2	88.9	53.6	39.8	36.4	35.9	36.4
55°	5259.6	3996.6	238.0	140.3	106.6	66.2	40.9	32.6	30.4	29.3	28.7
57.5°	5783.1	4090.5	178.4	113.2	77.3	48.1	32.6	27.6	25.4	23.8	23.2
60°	6131.6	4014.3	122.6	83.4	53.6	34.7	27.0	23.8	21.0	19.3	18.8
62.5°	6328.3	3806.1	79.0	60.2	38.1	26.0	21.5	19.8	16.0	14.3	14.3
65°	6248.7	3462.7	55.2	43.0	27.6	19.3	16.0	16.0	11.6	9.4	8.8
67.5°	5537.4	2925.2	42.0	32.0	19.8	14.3	12.1	13.8	7.2	4.4	4.4
69°	4764.3	2424.4	35.9	26.5	16.6	11.6	10.5	12.7	4.9	3.4	2.8
70°	4140.8	2091.4	32.6	23.2	13.8	10.0	9.4	12.1	4.9	2.8	2.2
72.5°	2477.4	1166.4	24.9	16.6	8.8	7.7	7.7	13.8	4.9	2.8	2.2
75°	1001.2	410.9	18.3	11.6	6.6	6.6	9.4	17.7	4.4	2.2	1.7
77.5°	227.0	90.0	10.5	7.2	4.4	6.6	11.1	13.8	2.8	1.1	0.0
80°	55.2	22.1	6.6	4.4	2.8	4.9	8.3	7.7	0.6	0.0	0.0
82.5°	18.3	7.7	2.8	2.2	0.6	1.7	3.8	2.2	0.0	0.0	0.0
85°	7.7	4.4	1.1	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
87.5°	4.9	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)