

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: P322596

Luminaire Tested: **GAN-SA2B-750-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8304 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

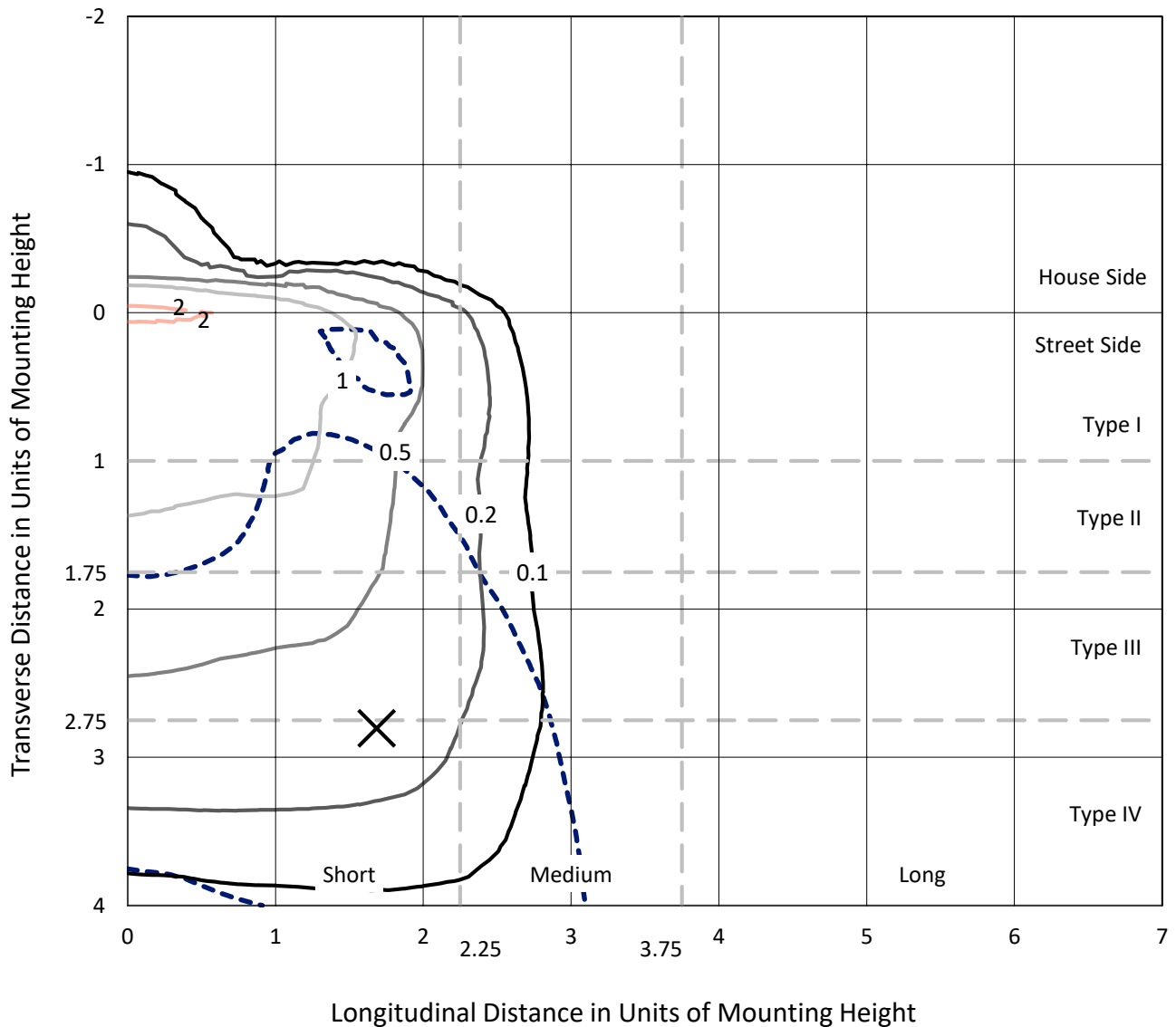
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

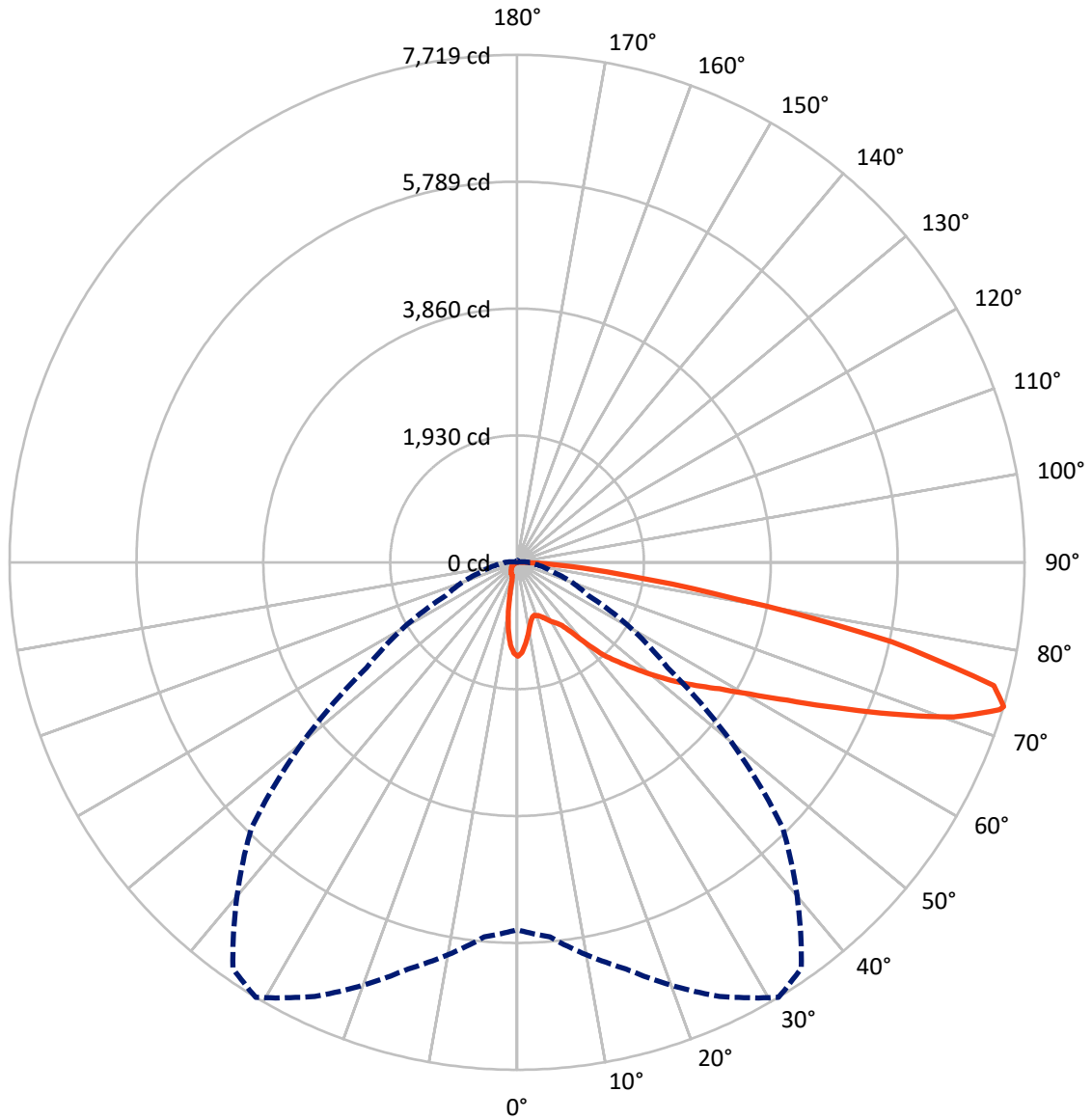
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	756.9	0.0	756.9
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	7547.1	0.0	7547.1
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	8304.0	0.0	8304.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	1.4
10°-20°	257.2	3.1
20°-30°	385.4	4.6
30°-40°	613.1	7.4
40°-50°	1094.9	13.2
50°-60°	1699.0	20.5
60°-70°	2258.5	27.2
70°-80°	1698.9	20.5
80°-90°	178.5	2.1
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°	8304.0	100.0
0°-180°	8304.0	100.0

**Coefficient of Utilization**

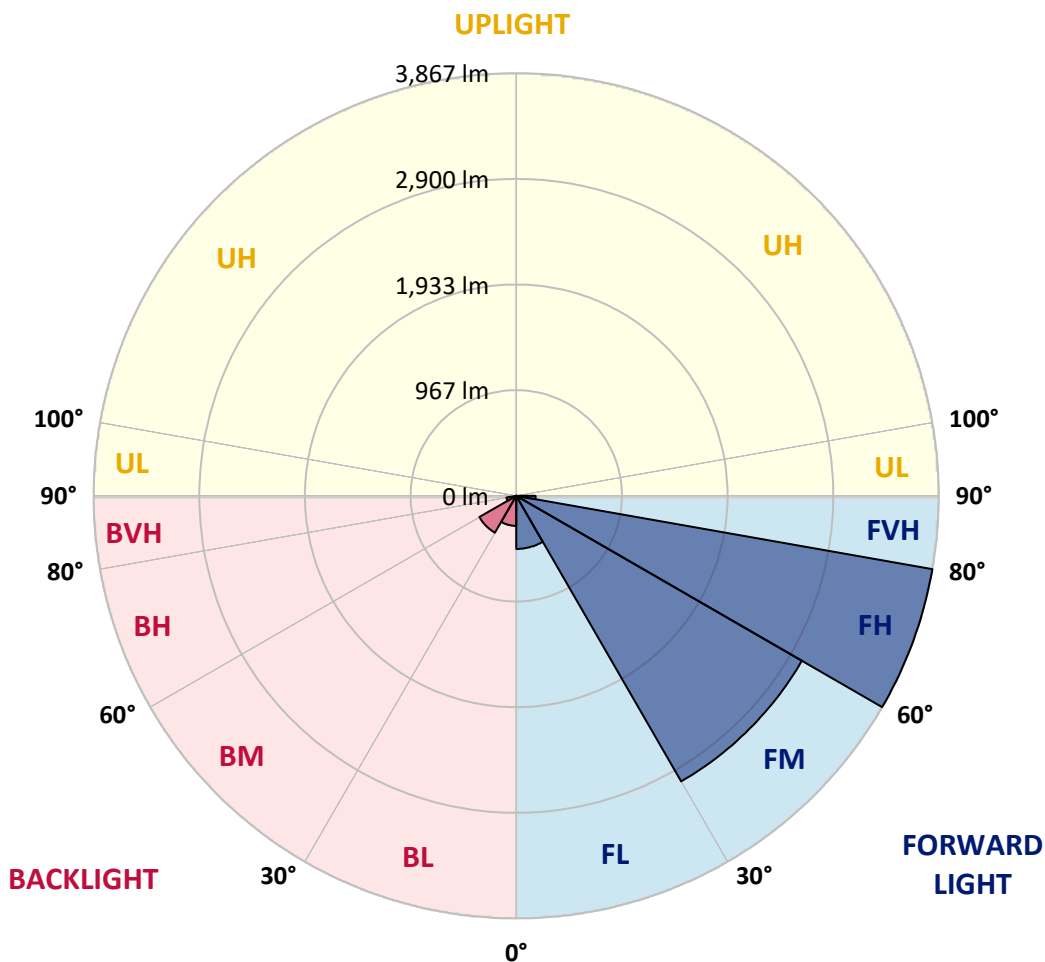


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.8	5.9			
FM (30°-60°)	3017.4	36.3			
FH (60°-80°)	3866.9	46.6			G2/5000
FVH (80°-90°)	177.0	2.1			G2/225
BL (0°-30°)	275.3	3.3	B1/500		
BM (30°-60°)	389.6	4.7	B1/1000		
BH (60°-80°)	90.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7
2.5°	1354.0	1359.6	1365.7	1367.0	1377.1	1377.5	1392.1	1403.1	1414.1	1424.7	1428.3
5°	1215.0	1224.3	1235.3	1246.3	1267.8	1276.3	1312.1	1348.7	1383.6	1416.9	1433.2
7.5°	1066.7	1077.2	1092.7	1119.9	1143.9	1160.5	1217.0	1282.0	1347.0	1408.4	1443.8
10°	931.4	941.1	957.4	986.2	1023.2	1045.9	1121.9	1212.1	1307.6	1400.7	1459.6
12.5°	845.2	850.5	859.4	890.3	923.6	949.2	1038.6	1150.4	1275.1	1400.3	1485.2
15°	829.4	831.0	823.7	837.5	863.5	888.3	978.9	1100.4	1250.3	1406.8	1518.5
17.5°	854.6	853.7	829.4	827.7	848.5	868.8	949.6	1065.9	1232.9	1421.8	1561.6
20°	892.7	889.9	847.6	839.9	861.9	881.0	947.6	1052.8	1226.4	1447.0	1614.0
22.5°	943.5	938.7	872.4	864.3	887.9	907.8	972.8	1065.4	1232.0	1480.7	1675.0
25°	1006.5	999.2	915.1	906.2	930.1	950.0	1017.9	1101.6	1249.1	1521.8	1752.2
27.5°	1077.6	1067.1	983.4	960.2	987.4	1008.1	1078.0	1156.9	1275.9	1565.3	1846.9
30°	1144.7	1130.9	1055.3	1017.1	1050.4	1073.6	1143.1	1222.7	1319.0	1632.3	1976.5
32.5°	1212.1	1196.7	1119.5	1074.0	1104.0	1129.2	1210.1	1313.3	1399.9	1734.7	2148.8
35°	1367.4	1351.1	1256.4	1181.3	1180.8	1195.1	1304.0	1437.3	1506.7	1877.3	2354.4
37.5°	1628.6	1619.3	1529.1	1386.5	1348.3	1332.4	1432.0	1585.2	1660.3	2073.6	2586.4
40°	1914.7	1906.6	1805.4	1676.2	1618.1	1579.1	1615.6	1791.2	1877.3	2313.3	2823.3
42.5°	2237.8	2199.2	2018.7	1980.1	1928.1	1898.5	1865.5	2045.2	2143.9	2574.2	3058.2
45°	2531.1	2466.1	2232.1	2173.6	2161.8	2169.1	2187.4	2386.5	2443.8	2884.3	3292.2
47.5°	2705.9	2654.7	2475.1	2419.0	2415.7	2464.1	2602.3	2772.1	2742.4	3154.5	3498.3
50°	2872.1	2825.7	2676.6	2690.4	2705.5	2771.3	3073.2	3168.7	3015.1	3399.5	3687.2
52.5°	3006.6	2935.9	2857.8	2935.5	3009.4	3115.5	3559.2	3524.7	3208.5	3594.6	3848.9
55°	3084.2	3052.1	3089.9	3167.9	3306.9	3479.2	4018.0	3820.9	3349.9	3772.5	3956.6
57.5°	3368.6	3305.6	3380.8	3448.3	3629.5	3870.5	4410.9	4041.5	3451.9	3882.7	3981.4
60°	3712.8	3662.0	3706.3	3818.5	4063.1	4346.3	4778.2	4221.6	3505.2	3953.4	3917.2
62.5°	4260.6	4193.5	4165.9	4291.4	4615.7	4924.9	5057.0	4346.3	3493.4	3922.1	3697.0
65°	4994.4	4924.9	4801.4	4915.2	5327.6	5545.8	5368.7	4372.7	3412.1	3668.9	3140.3
67.5°	5746.2	5695.8	5590.1	5781.9	6154.1	6224.4	5698.2	4308.5	3150.4	2974.9	2218.7
70°	6242.7	6221.2	6289.9	6714.1	7046.1	7025.8	6000.5	3963.5	2455.6	1829.4	1097.5
72.5°	5884.7	5987.9	6495.1	7264.3	7669.8	7504.0	5845.3	3043.5	1403.5	703.8	317.4
73°	5588.1	5720.2	6402.8	7285.0	7719.0	7537.4	5714.9	2793.6	1196.3	555.5	240.6
75°	3887.5	4049.7	5300.8	6784.8	7489.0	7181.4	4763.6	1709.9	554.3	246.2	97.1
77.5°	1887.5	2007.4	2918.8	4902.2	5824.2	5610.9	2965.5	637.2	250.3	154.0	44.7
80°	704.6	783.4	1267.0	2495.0	3365.8	3454.0	1304.4	241.0	166.6	123.9	22.8
82.5°	184.5	205.6	467.3	1112.6	1724.9	1805.4	411.2	121.5	121.9	102.0	13.8
85°	58.9	67.5	145.9	499.4	812.7	713.5	107.3	58.9	88.6	76.0	7.7
87.5°	7.3	9.3	46.3	117.4	179.2	99.6	16.7	17.5	37.8	42.3	4.5
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°	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7	1428.7
2.5°	1432.0	1429.9	1430.3	1419.8	1412.9	1399.1	1384.8	1378.3	1371.4	1368.6	1371.4
5°	1439.3	1435.6	1425.1	1392.6	1358.0	1313.3	1271.5	1239.8	1199.9	1189.0	1200.4
7.5°	1450.7	1443.3	1412.5	1346.2	1269.4	1184.1	1088.2	1018.3	961.0	924.0	937.4
10°	1467.3	1453.5	1391.3	1278.8	1141.4	990.3	854.1	748.1	672.9	642.0	640.8
12.5°	1495.4	1469.4	1365.3	1191.0	985.0	783.4	605.1	490.1	429.1	389.7	388.9
15°	1526.2	1488.0	1332.4	1085.8	802.9	561.2	389.7	302.3	262.9	250.3	248.7
17.5°	1564.0	1509.6	1289.7	956.1	612.4	371.8	254.4	229.2	227.6	226.3	226.3
20°	1611.6	1535.2	1234.9	807.8	434.4	248.3	216.2	217.8	218.6	217.0	217.4
22.5°	1666.8	1561.2	1169.5	648.5	293.8	207.6	206.8	208.9	209.7	208.9	209.3
25°	1731.0	1591.3	1089.8	481.5	212.1	197.1	199.1	202.0	204.0	204.0	204.0
27.5°	1810.7	1627.8	993.9	336.0	183.3	186.1	191.8	197.1	199.9	200.7	200.7
30°	1914.3	1673.3	878.9	230.4	166.6	171.5	182.0	192.2	197.5	198.3	198.7
32.5°	2045.2	1724.5	745.6	170.3	152.4	156.0	167.4	184.5	194.6	196.3	196.3
35°	2195.1	1783.9	602.2	148.3	142.2	143.4	152.4	171.9	189.8	194.2	194.6
37.5°	2359.3	1842.4	458.0	138.6	133.7	133.7	140.2	156.9	178.0	191.8	193.4
40°	2512.5	1877.7	321.0	130.8	126.0	126.0	131.7	143.8	163.8	184.5	189.0
42.5°	2653.9	1889.9	223.5	123.5	118.7	119.9	124.7	134.5	149.5	170.3	174.3
45°	2799.3	1887.9	162.9	115.0	111.3	115.0	118.7	126.0	136.9	148.7	149.5
47.5°	2909.0	1870.8	129.2	106.9	104.4	109.3	112.6	117.4	123.5	122.7	122.7
50°	3011.9	1829.4	104.0	95.9	97.5	103.2	104.8	106.5	106.9	99.1	98.3
52.5°	3089.9	1764.8	83.3	84.1	90.6	96.3	94.7	92.2	88.2	78.8	77.2
55°	3115.9	1640.4	65.4	69.5	80.5	87.8	81.7	76.4	68.7	61.0	59.3
57.5°	3068.7	1479.9	53.2	54.0	67.9	74.0	67.0	61.0	52.4	45.9	44.7
60°	2968.8	1301.5	43.9	40.6	52.4	57.7	53.2	47.1	39.4	34.5	34.1
62.5°	2770.5	1111.4	36.2	31.7	39.8	44.3	41.4	37.0	30.5	27.2	26.8
65°	2353.6	889.1	29.3	25.6	30.9	34.5	32.1	28.9	24.0	21.5	21.1
67.5°	1642.9	601.0	24.0	21.1	24.4	27.2	25.2	23.6	19.1	18.7	19.1
70°	792.4	289.7	19.9	17.1	19.1	21.1	20.3	19.1	18.3	21.1	24.4
72.5°	227.1	97.1	15.8	14.2	15.4	16.7	17.5	17.1	19.9	25.6	29.7
73°	174.7	78.4	15.0	13.4	14.6	16.3	17.1	16.7	20.3	26.0	29.7
75°	74.8	37.8	11.4	11.0	12.2	14.2	15.0	15.0	20.3	26.4	28.4
77.5°	33.7	20.3	7.3	8.5	10.6	11.4	12.6	12.6	16.3	20.3	20.3
80°	19.1	11.0	5.7	6.5	7.7	7.7	7.7	6.9	7.3	8.1	8.9
82.5°	12.2	7.3	4.5	5.3	4.9	4.1	3.3	3.3	2.8	3.3	4.1
85°	6.9	4.1	4.1	3.3	2.0	1.6	2.0	1.6	0.4	0.0	0.4
87.5°	4.1	2.4	1.2	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)