

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: P321635

Luminaire Tested: **GAN-SA1B-750-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1B-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4601 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

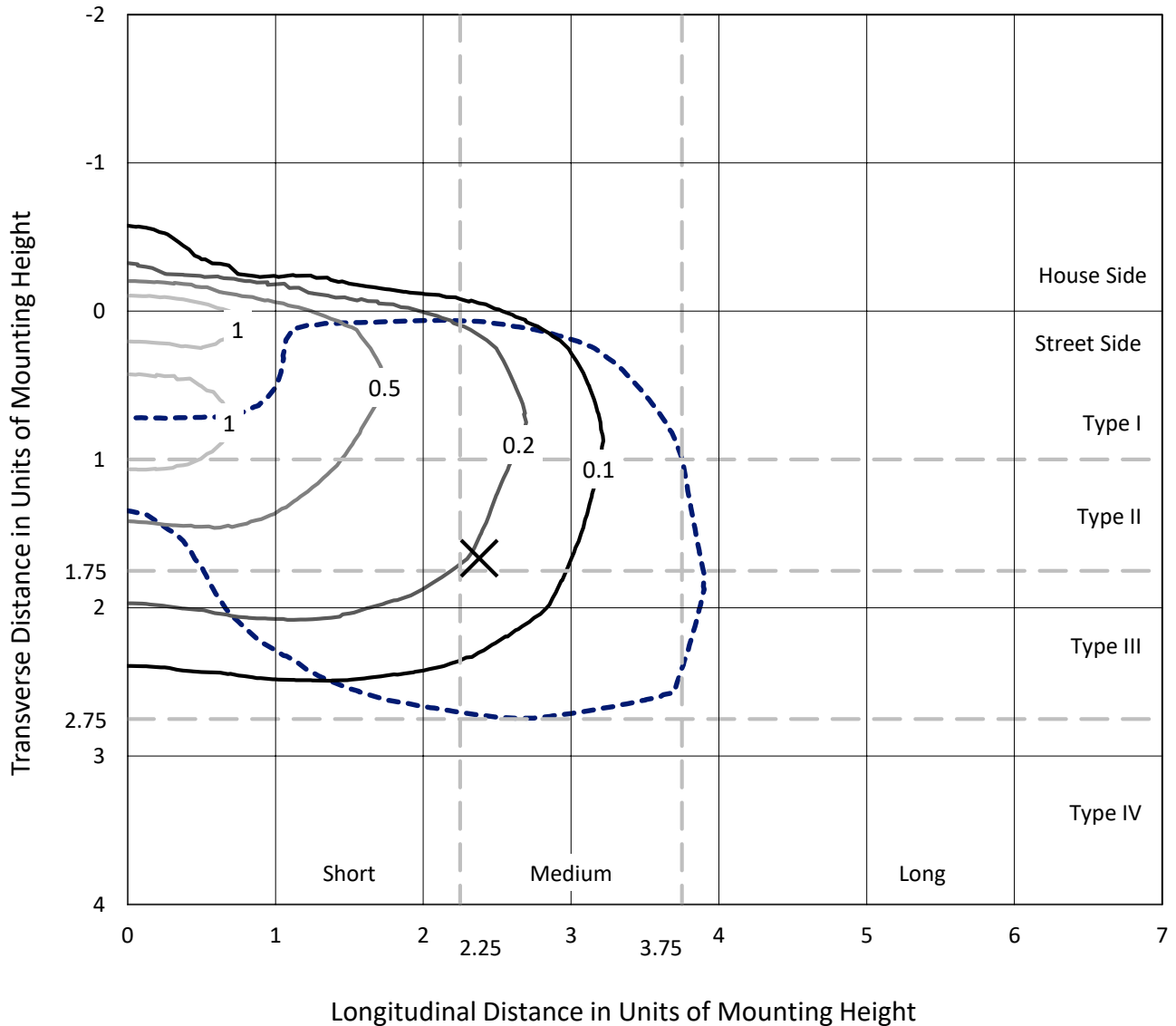
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

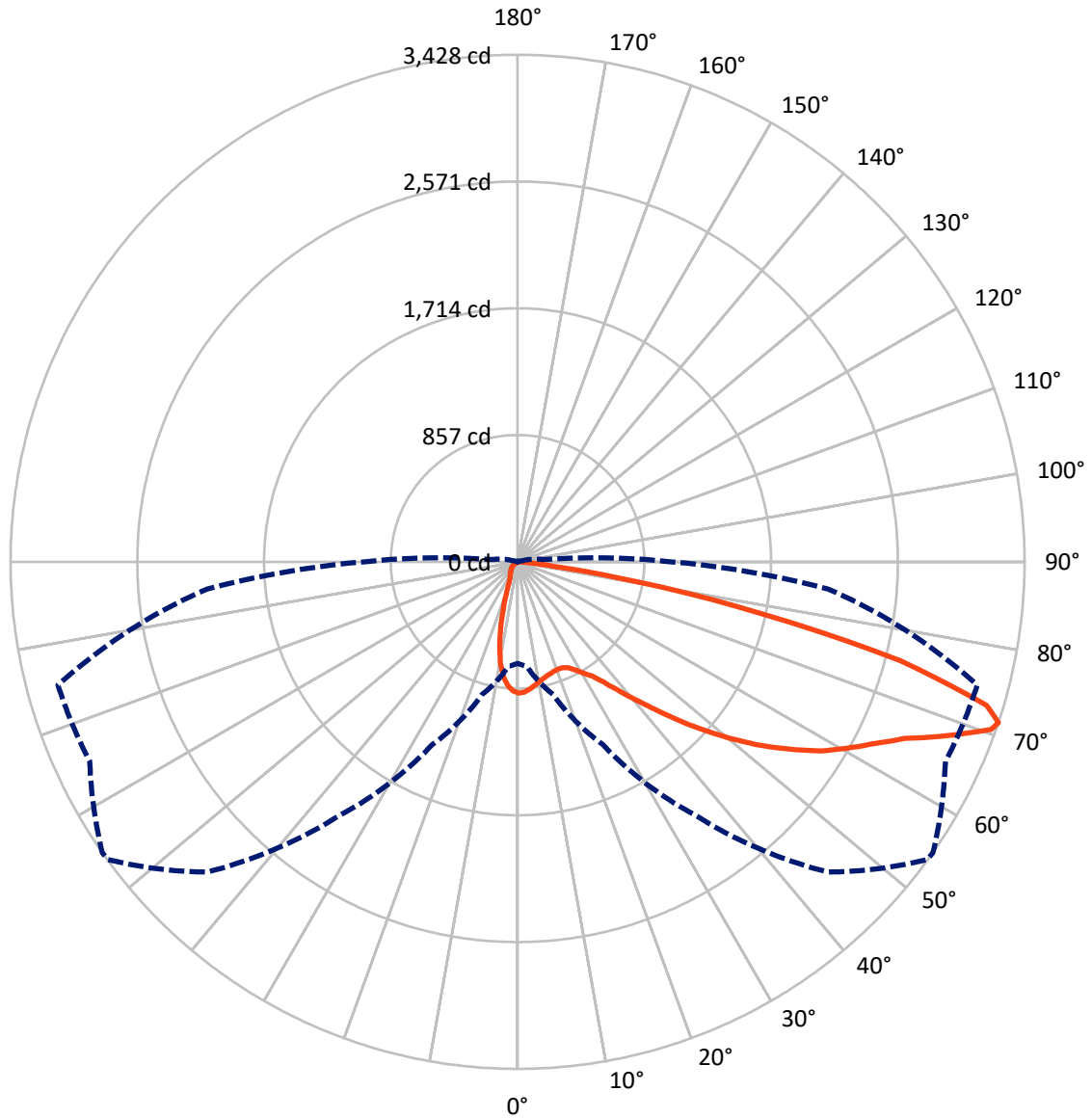
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	364.3	0.0	364.3
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	4236.7	0.0	4236.7
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	4601.0	0.0	4601.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	1.6
10°-20°	170.8	3.7
20°-30°	274.5	6.0
30°-40°	466.4	10.1
40°-50°	723.8	15.7
50°-60°	973.2	21.2
60°-70°	1190.5	25.9
70°-80°	696.1	15.1
80°-90°	30.1	0.7
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°	4601.0	100.0
0°-180°	4601.0	100.0

**Coefficient of Utilization**

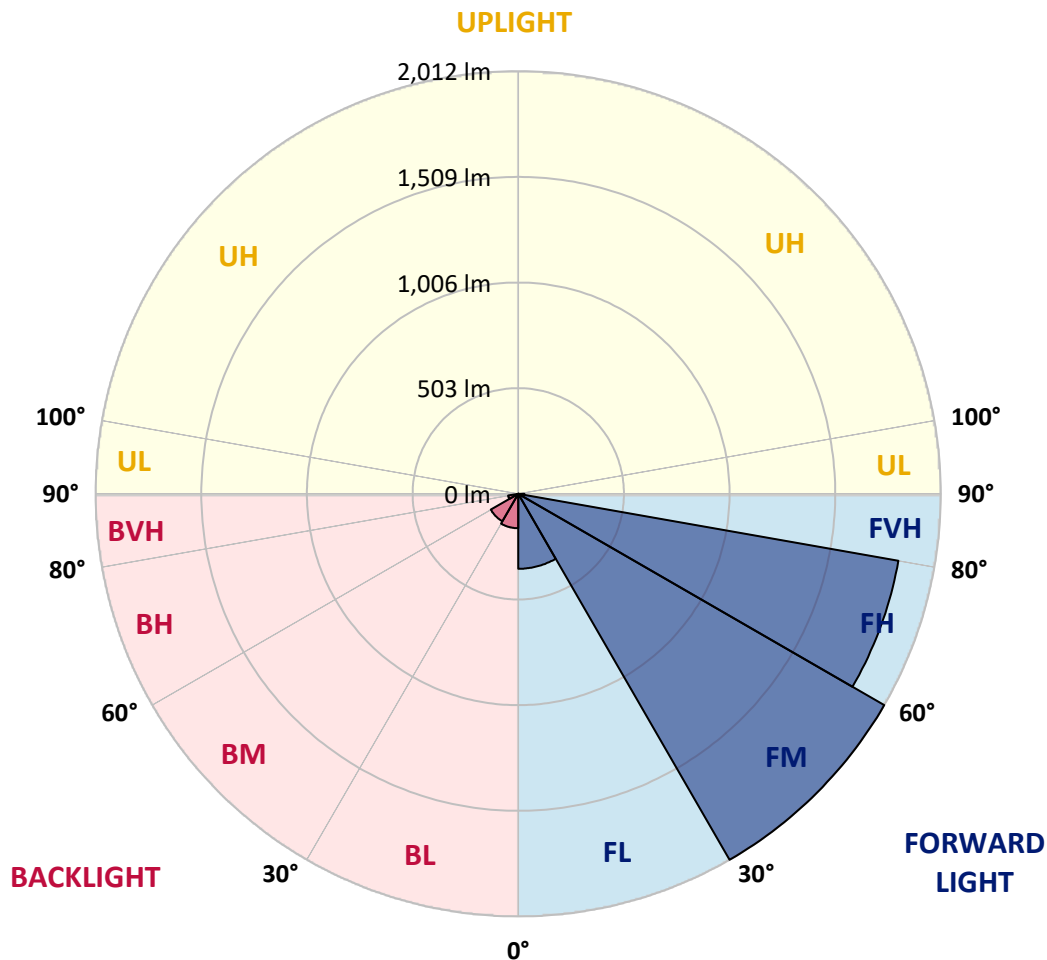


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.0	7.8			
FM (30°-60°)	2012.3	43.7			
FH (60°-80°)	1837.8	39.9			G2/5000
FVH (80°-90°)	29.6	0.6			G1/100
BL (0°-30°)	164.0	3.6	B1/500		
BM (30°-60°)	151.0	3.3	B0/220		
BH (60°-80°)	48.8	1.1	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3
2.5°	861.3	862.3	866.0	867.7	871.6	878.2	881.5	881.7	887.1	889.2	890.8
5°	800.3	806.5	812.7	819.4	831.3	847.2	862.9	864.4	881.7	894.6	901.4
7.5°	747.9	753.4	760.9	771.4	788.4	813.4	839.6	842.7	875.5	904.7	920.0
10°	693.9	698.5	709.2	724.7	748.1	781.5	816.9	822.0	870.0	918.3	945.2
12.5°	636.3	639.0	652.0	674.3	708.6	751.2	797.7	804.5	866.5	934.0	974.9
15°	592.5	593.7	606.1	629.3	668.5	723.9	782.8	791.0	867.3	952.8	1007.4
17.5°	581.4	582.0	588.6	604.5	639.2	699.5	771.0	781.1	869.8	971.2	1040.0
20°	626.6	622.3	615.4	613.0	627.8	684.9	764.0	775.3	873.1	987.5	1069.3
22.5°	750.8	738.0	709.6	671.8	648.9	685.9	765.8	777.2	883.6	1007.6	1103.2
25°	935.0	917.3	869.1	794.8	723.3	715.6	781.3	792.9	904.1	1031.5	1135.6
27.5°	1144.7	1127.2	1068.3	962.1	840.2	774.5	816.9	827.6	934.4	1052.8	1160.4
30°	1345.5	1340.6	1271.2	1150.5	987.3	870.0	862.7	871.8	956.9	1065.6	1180.1
32.5°	1515.8	1507.9	1452.1	1334.8	1155.7	984.6	916.7	919.3	973.9	1082.1	1205.7
35°	1673.6	1663.9	1614.9	1504.0	1328.4	1124.7	999.7	995.8	1010.9	1115.4	1242.9
37.5°	1811.4	1820.3	1766.0	1660.4	1483.3	1270.3	1111.7	1099.9	1068.7	1169.5	1296.8
40°	1926.7	1926.7	1898.4	1810.4	1650.7	1421.0	1238.3	1222.8	1155.7	1253.0	1365.2
42.5°	1968.2	1977.1	1987.6	1937.8	1800.5	1577.5	1379.4	1363.3	1278.2	1371.4	1451.5
45°	1970.7	1984.7	2038.7	2038.5	1935.8	1733.1	1538.5	1530.9	1435.2	1523.4	1558.5
47.5°	1935.8	1953.3	2042.2	2092.6	2043.0	1877.9	1712.5	1703.0	1619.7	1709.8	1670.5
50°	1881.9	1901.3	2004.6	2113.9	2115.9	2004.0	1895.7	1881.4	1822.8	1922.8	1786.2
52.5°	1785.4	1823.0	1970.9	2118.8	2163.9	2112.8	2070.1	2063.9	2050.0	2127.9	1878.3
55°	1579.0	1620.7	1886.4	2120.5	2208.3	2209.3	2233.5	2235.1	2263.0	2319.6	1946.9
57.5°	1481.5	1505.0	1738.9	2128.3	2274.2	2318.8	2400.0	2412.8	2456.0	2501.6	2025.2
60°	1420.1	1448.0	1666.2	2117.6	2377.7	2462.4	2554.3	2558.7	2604.9	2689.4	2131.2
62.5°	1371.2	1398.6	1620.3	2076.3	2494.0	2635.1	2705.1	2705.5	2740.3	2913.2	2251.7
65°	1250.3	1273.4	1527.6	2029.8	2570.9	2806.0	2880.3	2877.6	2905.9	3149.1	2391.5
67.5°	1075.5	1093.3	1338.1	1853.6	2541.9	2961.3	3144.8	3135.9	3101.6	3353.0	2446.5
70°	831.5	837.9	1054.7	1544.7	2270.9	3021.0	3400.3	3395.8	3221.6	3316.4	2245.1
71°	687.3	708.4	929.5	1363.3	2089.3	2965.9	3425.1	3427.8	3191.5	3216.9	2106.4
72.5°	399.1	417.1	673.7	1047.0	1773.8	2735.7	3296.6	3316.0	3050.6	2926.0	1799.2
75°	85.5	91.5	249.8	506.8	975.7	1917.4	2602.0	2671.3	2486.4	1990.5	1084.4
77.5°	59.5	64.3	107.0	229.9	322.5	947.4	1616.4	1694.5	1485.4	748.1	347.1
80°	47.1	52.5	83.5	113.6	87.2	305.6	757.2	804.9	495.4	166.9	58.5
82.5°	26.2	31.2	65.1	61.4	33.5	58.1	212.0	239.6	99.2	33.7	13.8
85°	7.6	9.3	41.9	44.6	14.3	11.2	36.2	44.8	18.8	8.9	6.2
87.5°	0.0	0.0	20.2	17.1	4.1	1.7	3.3	3.7	3.7	3.7	4.1
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°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3
2.5°	890.8	892.3	887.1	880.3	873.1	864.2	854.9	847.7	847.4	843.9	840.4
5°	901.8	901.0	886.7	865.0	839.4	812.7	787.3	758.6	749.1	737.3	733.4
7.5°	922.0	916.2	886.1	838.6	782.4	726.6	668.9	610.9	586.1	563.8	559.9
10°	947.4	936.5	882.2	798.9	695.8	592.9	505.9	427.0	392.3	365.7	364.4
12.5°	973.9	957.1	871.2	739.0	582.4	437.8	337.6	259.9	231.0	212.4	214.0
15°	1001.6	976.6	847.7	658.2	453.3	297.1	207.4	161.8	150.2	145.4	146.7
17.5°	1029.9	990.0	814.8	560.9	325.8	191.7	143.6	130.8	130.8	131.8	132.2
20°	1054.5	997.2	766.5	451.8	220.8	139.7	125.6	123.7	124.8	126.4	126.6
22.5°	1078.8	997.6	703.5	341.3	154.5	122.3	119.6	118.8	119.4	121.3	121.5
25°	1098.7	992.7	624.5	242.7	123.3	115.3	114.0	113.6	114.0	116.3	116.3
27.5°	1106.7	974.7	528.3	170.6	110.5	107.4	107.0	107.4	108.0	109.7	109.9
30°	1107.5	943.3	423.3	123.5	100.2	96.9	97.7	99.2	98.5	98.1	98.5
32.5°	1109.6	906.9	321.0	101.6	91.5	86.4	85.3	85.3	82.8	81.4	80.6
35°	1116.4	864.2	232.8	91.3	82.6	76.6	72.7	68.2	63.4	60.9	60.3
37.5°	1127.2	819.4	166.7	84.5	74.8	68.0	60.5	52.5	45.7	43.8	43.8
40°	1146.8	773.1	123.3	79.1	68.6	60.1	49.0	38.4	32.2	31.2	31.2
42.5°	1177.8	724.3	98.3	74.4	63.2	52.1	37.4	27.9	23.3	22.7	22.5
45°	1210.0	670.6	85.9	69.8	57.4	42.8	27.7	20.7	18.0	17.4	17.4
47.5°	1242.2	613.4	80.0	65.5	51.9	33.3	20.7	16.3	15.1	15.1	15.3
50°	1269.5	553.7	75.6	60.7	44.6	25.2	16.3	13.8	13.4	14.3	14.5
52.5°	1276.3	495.0	70.2	54.7	35.7	19.2	13.4	12.2	12.2	12.2	12.2
55°	1272.2	449.5	63.2	47.3	26.4	15.3	11.6	10.7	10.5	10.5	10.5
57.5°	1286.3	422.7	50.6	36.8	19.0	12.4	10.1	9.5	9.1	8.9	8.9
60°	1314.6	405.1	36.2	26.4	14.3	10.3	8.7	8.1	7.4	7.0	7.0
62.5°	1352.2	389.8	26.9	19.6	10.9	8.3	7.2	6.6	5.8	5.4	5.4
65°	1381.1	362.6	20.5	14.7	8.3	6.6	5.6	5.4	4.1	3.7	3.5
67.5°	1336.9	302.7	16.5	10.7	6.2	5.2	4.3	4.1	2.5	2.1	2.1
70°	1146.6	210.7	13.2	7.9	4.5	4.1	3.5	2.7	1.9	1.7	1.7
71°	1039.8	176.0	12.0	6.6	3.9	3.9	3.3	2.3	1.7	1.4	1.4
72.5°	863.8	125.0	10.1	5.2	3.5	4.1	3.5	2.1	1.7	1.4	1.2
75°	501.4	52.3	7.0	3.5	2.7	5.0	4.5	1.9	1.2	1.0	1.0
77.5°	150.8	19.2	3.9	2.3	2.1	4.3	5.2	1.7	0.6	0.2	0.2
80°	27.5	8.3	2.5	1.4	1.4	2.7	3.9	0.8	0.0	0.0	0.0
82.5°	9.7	4.1	1.4	0.8	0.6	1.2	1.9	0.0	0.0	0.0	0.0
85°	5.6	2.9	0.8	0.4	0.0	0.2	0.4	0.0	0.0	0.0	0.0
87.5°	3.7	0.8	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)