

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: P322506

Luminaire Tested: **GAN-SA2A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322506  
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-SA2A-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 6166 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

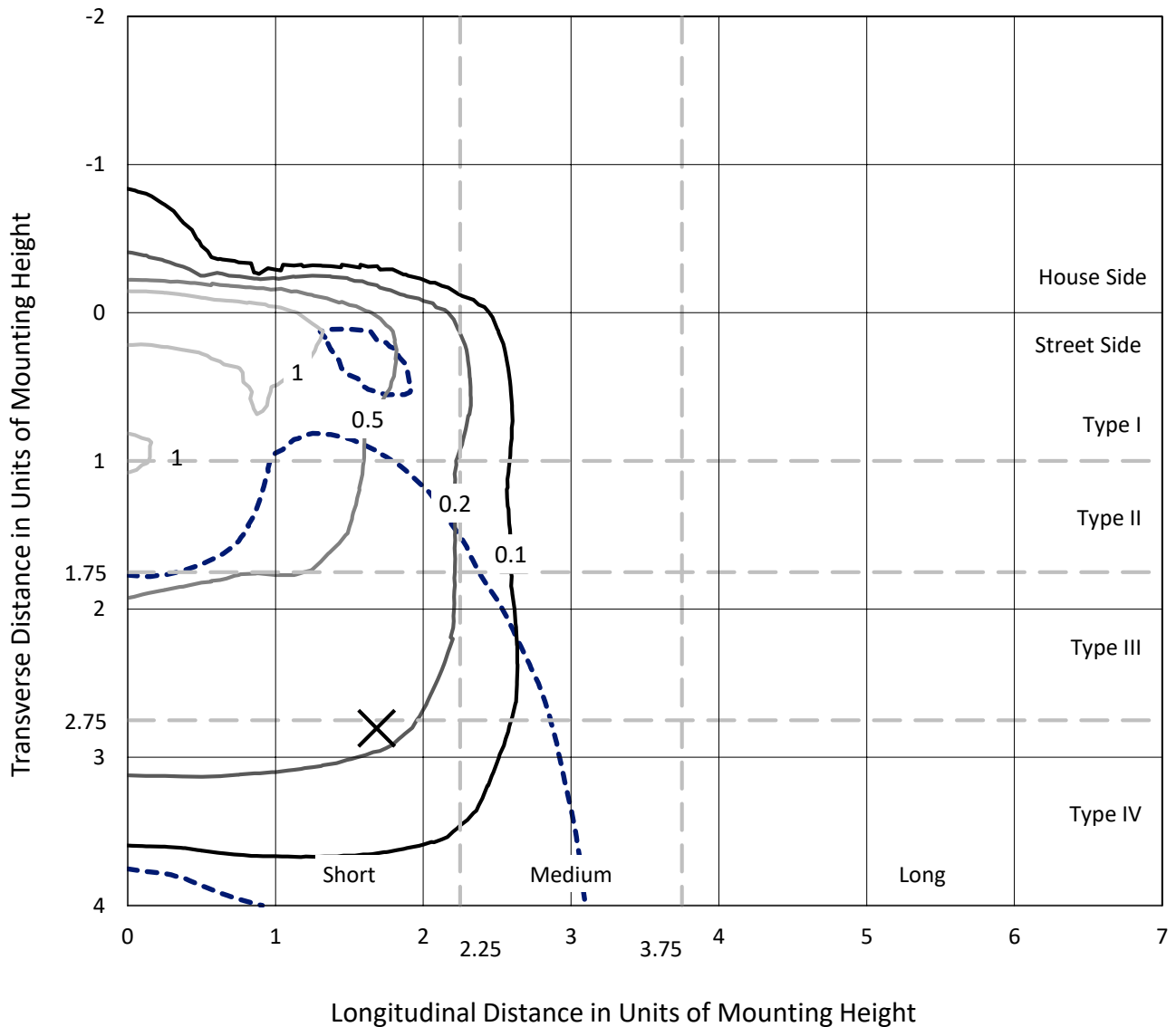
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

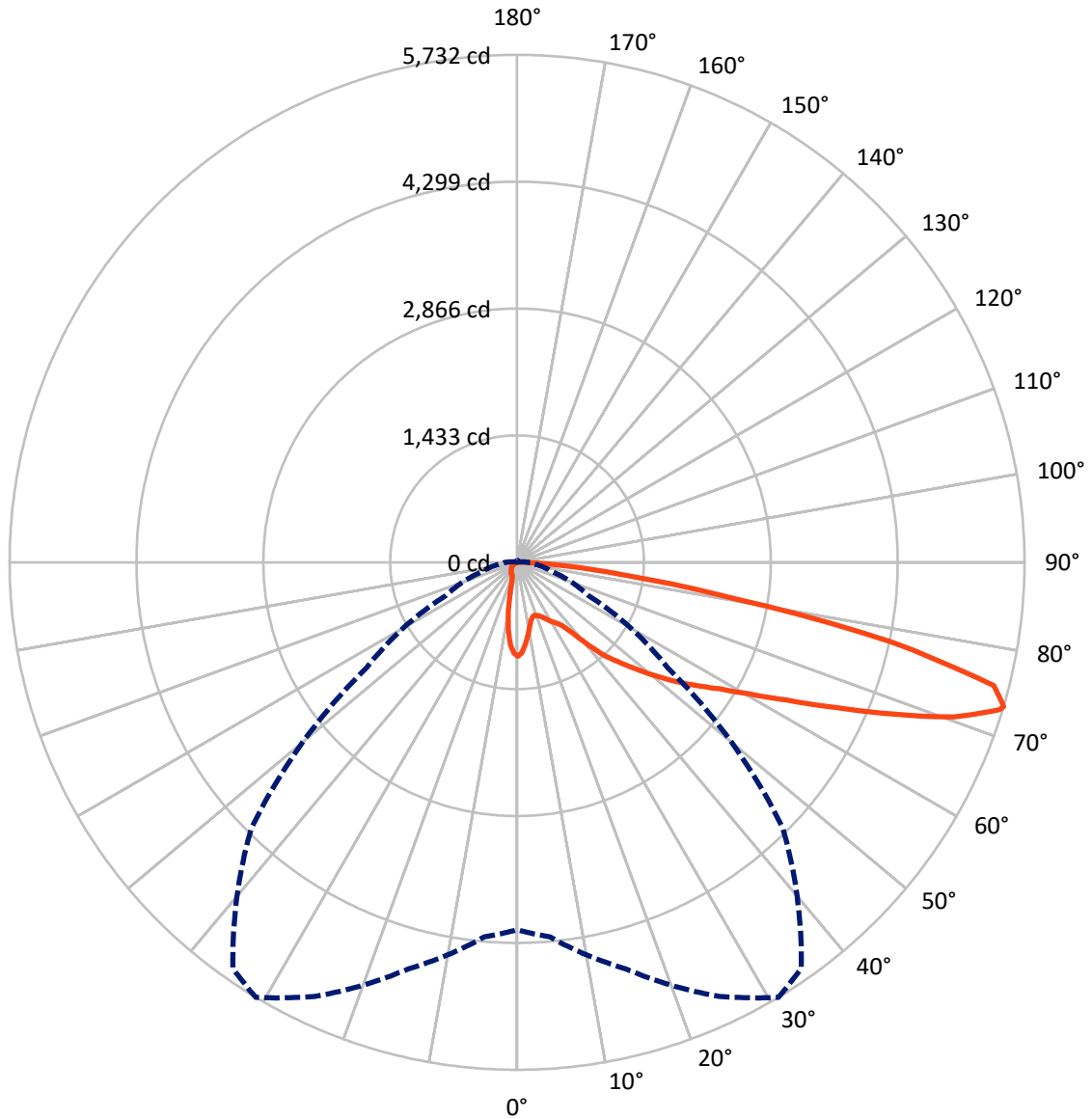
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	562.0	0.0	562.0
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	5603.9	0.0	5603.9
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	6166.0	0.0	6166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	1.4
10°-20°	191.0	3.1
20°-30°	286.2	4.6
30°-40°	455.3	7.4
40°-50°	813.0	13.2
50°-60°	1261.5	20.5
60°-70°	1677.0	27.2
70°-80°	1261.5	20.5
80°-90°	132.5	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°	6166.0	100.0
0°-180°	6166.0	100.0

**Coefficient of Utilization**

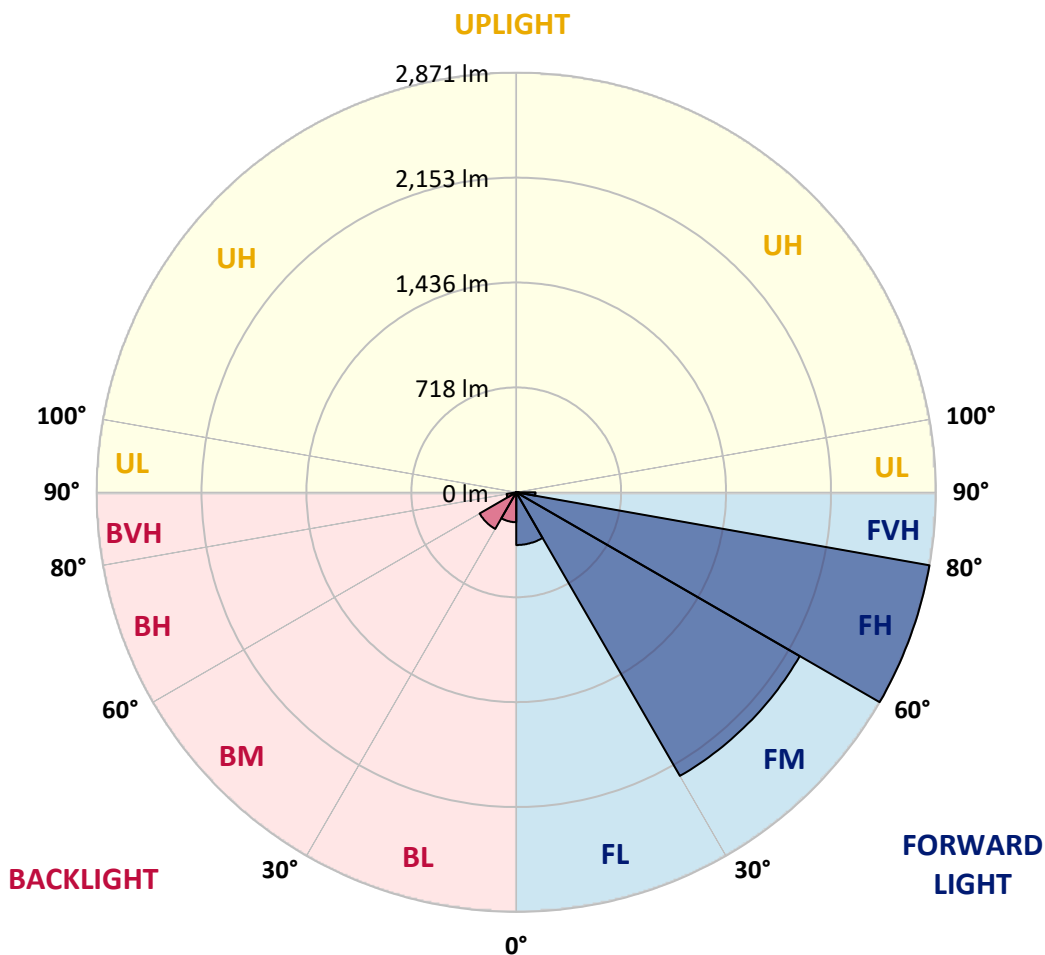


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.7	5.9			
FM (30°-60°)	2240.5	36.3			
FH (60°-80°)	2871.3	46.6			G2/5000
FVH (80°-90°)	131.4	2.1			G2/225
BL (0°-30°)	204.4	3.3	B1/500		
BM (30°-60°)	289.3	4.7	B1/1000		
BH (60°-80°)	67.2	1.1	B0/110		G0/110
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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1005.4	1009.6	1014.1	1015.0	1022.6	1022.9	1033.7	1041.9	1050.0	1057.9	1060.6
5°	902.2	909.1	917.3	925.4	941.4	947.7	974.3	1001.4	1027.4	1052.1	1064.2
7.5°	792.0	799.9	811.3	831.6	849.4	861.7	903.7	951.9	1000.2	1045.8	1072.0
10°	691.6	698.8	710.9	732.3	759.7	776.6	833.1	900.1	971.0	1040.1	1083.8
12.5°	627.6	631.5	638.2	661.1	685.8	704.8	771.2	854.2	946.8	1039.8	1102.8
15°	615.8	617.0	611.6	621.9	641.2	659.6	726.9	817.1	928.4	1044.6	1127.6
17.5°	634.5	633.9	615.8	614.6	630.0	645.1	705.1	791.4	915.4	1055.7	1159.5
20°	662.9	660.8	629.4	623.7	640.0	654.1	703.6	781.8	910.6	1074.5	1198.5
22.5°	700.6	697.0	647.8	641.8	659.3	674.1	722.3	791.1	914.8	1099.5	1243.7
25°	747.4	741.9	679.5	672.9	690.7	705.4	755.8	818.0	927.5	1130.0	1301.0
27.5°	800.2	792.3	730.2	713.0	733.2	748.6	800.5	859.0	947.4	1162.3	1371.4
30°	850.0	839.7	783.6	755.2	780.0	797.2	848.8	907.9	979.4	1212.0	1467.6
32.5°	900.1	888.6	831.3	797.5	819.8	838.5	898.5	975.2	1039.5	1288.1	1595.5
35°	1015.3	1003.2	932.9	877.1	876.8	887.4	968.2	1067.2	1118.8	1394.0	1748.2
37.5°	1209.3	1202.4	1135.4	1029.5	1001.1	989.4	1063.3	1177.0	1232.9	1539.7	1920.5
40°	1421.7	1415.7	1340.6	1244.6	1201.5	1172.5	1199.7	1330.0	1394.0	1717.7	2096.4
42.5°	1661.6	1632.9	1499.0	1470.3	1431.7	1409.7	1385.2	1518.6	1591.9	1911.4	2270.8
45°	1879.5	1831.2	1657.4	1613.9	1605.2	1610.6	1624.2	1772.0	1814.6	2141.7	2444.6
47.5°	2009.2	1971.2	1837.8	1796.2	1793.8	1829.7	1932.3	2058.4	2036.4	2342.3	2597.6
50°	2132.6	2098.2	1987.5	1997.7	2008.9	2057.8	2282.0	2352.9	2238.8	2524.2	2737.9
52.5°	2232.5	2180.0	2122.0	2179.7	2234.6	2313.3	2642.8	2617.2	2382.4	2669.1	2858.0
55°	2290.1	2266.3	2294.3	2352.3	2455.5	2583.4	2983.5	2837.1	2487.4	2801.2	2937.9
57.5°	2501.3	2454.6	2510.4	2560.5	2695.0	2874.0	3275.2	3001.0	2563.2	2883.0	2956.3
60°	2756.9	2719.2	2752.1	2835.3	3017.0	3227.3	3548.0	3134.6	2602.7	2935.5	2908.7
62.5°	3163.6	3113.8	3093.3	3186.5	3427.3	3656.9	3755.0	3227.3	2593.9	2912.3	2745.1
65°	3708.5	3656.9	3565.2	3649.7	3955.9	4118.0	3986.4	3246.9	2533.6	2724.3	2331.7
67.5°	4266.7	4229.3	4150.9	4293.3	4569.7	4621.9	4231.1	3199.2	2339.3	2208.9	1647.4
70°	4635.4	4619.4	4670.4	4985.4	5232.0	5216.9	4455.6	2943.0	1823.3	1358.4	815.0
72.5°	4369.6	4446.3	4822.8	5394.0	5695.1	5572.0	4340.3	2259.9	1042.2	522.6	235.6
73°	4149.4	4247.4	4754.3	5409.4	5731.6	5596.7	4243.5	2074.4	888.3	412.5	178.6
75°	2886.6	3007.0	3936.0	5037.9	5560.8	5332.4	3537.1	1269.7	411.6	182.8	72.1
77.5°	1401.5	1490.5	2167.3	3640.0	4324.7	4166.2	2202.0	473.1	185.9	114.4	33.2
80°	523.2	581.7	940.8	1852.6	2499.2	2564.7	968.5	178.9	123.7	92.0	16.9
82.5°	137.0	152.7	347.0	826.1	1280.8	1340.6	305.3	90.2	90.5	75.7	10.3
85°	43.8	50.1	108.3	370.8	603.5	529.8	79.7	43.8	65.8	56.4	5.7
87.5°	5.4	6.9	34.4	87.2	133.1	73.9	12.4	13.0	28.1	31.4	3.3
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°	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1063.3	1061.8	1062.1	1054.2	1049.1	1038.8	1028.3	1023.5	1018.3	1016.2	1018.3
5°	1068.7	1066.0	1058.2	1034.0	1008.4	975.2	944.1	920.6	891.0	882.9	891.3
7.5°	1077.2	1071.7	1048.8	999.6	942.6	879.2	808.0	756.1	713.6	686.1	696.1
10°	1089.5	1079.3	1033.1	949.5	847.6	735.3	634.2	555.5	499.7	476.7	475.8
12.5°	1110.4	1091.0	1013.8	884.4	731.4	581.7	449.3	363.9	318.6	289.4	288.8
15°	1133.3	1104.9	989.4	806.2	596.2	416.7	289.4	224.5	195.2	185.9	184.7
17.5°	1161.3	1120.9	957.7	710.0	454.7	276.1	188.9	170.2	169.0	168.1	168.1
20°	1196.7	1139.9	916.9	599.8	322.5	184.4	160.5	161.7	162.3	161.1	161.4
22.5°	1237.7	1159.2	868.4	481.6	218.1	154.2	153.6	155.1	155.7	155.1	155.4
25°	1285.4	1181.6	809.2	357.5	157.5	146.3	147.8	150.0	151.5	151.5	151.5
27.5°	1344.5	1208.7	738.0	249.5	136.1	138.2	142.4	146.3	148.4	149.1	149.1
30°	1421.4	1242.5	652.6	171.1	123.7	127.3	135.2	142.7	146.6	147.2	147.5
32.5°	1518.6	1280.5	553.7	126.4	113.1	115.9	124.3	137.0	144.5	145.7	145.7
35°	1629.9	1324.6	447.2	110.1	105.6	106.5	113.1	127.6	140.9	144.2	144.5
37.5°	1751.8	1368.0	340.0	102.9	99.3	99.3	104.1	116.5	132.2	142.4	143.6
40°	1865.6	1394.3	238.4	97.2	93.5	93.5	97.8	106.8	121.6	137.0	140.3
42.5°	1970.6	1403.3	165.9	91.7	88.1	89.0	92.6	99.9	111.0	126.4	129.4
45°	2078.6	1401.8	121.0	85.4	82.7	85.4	88.1	93.5	101.7	110.4	111.0
47.5°	2160.1	1389.2	95.9	79.4	77.5	81.2	83.6	87.2	91.7	91.1	91.1
50°	2236.4	1358.4	77.2	71.2	72.4	76.6	77.8	79.1	79.4	73.6	73.0
52.5°	2294.3	1310.4	61.9	62.5	67.3	71.5	70.3	68.5	65.5	58.5	57.3
55°	2313.6	1218.1	48.6	51.6	59.7	65.2	60.6	56.7	51.0	45.3	44.1
57.5°	2278.6	1098.9	39.5	40.1	50.4	54.9	49.8	45.3	38.9	34.1	33.2
60°	2204.4	966.4	32.6	30.2	38.9	42.8	39.5	35.0	29.3	25.6	25.3
62.5°	2057.2	825.2	26.9	23.5	29.6	32.9	30.8	27.5	22.6	20.2	19.9
65°	1747.6	660.2	21.7	19.0	22.9	25.6	23.8	21.4	17.8	16.0	15.7
67.5°	1219.9	446.3	17.8	15.7	18.1	20.2	18.7	17.5	14.2	13.9	14.2
70°	588.4	215.1	14.8	12.7	14.2	15.7	15.1	14.2	13.6	15.7	18.1
72.5°	168.7	72.1	11.8	10.6	11.5	12.4	13.0	12.7	14.8	19.0	22.0
73°	129.7	58.2	11.2	10.0	10.9	12.1	12.7	12.4	15.1	19.3	22.0
75°	55.5	28.1	8.4	8.1	9.1	10.6	11.2	11.2	15.1	19.6	21.1
77.5°	25.0	15.1	5.4	6.3	7.8	8.4	9.4	9.4	12.1	15.1	15.1
80°	14.2	8.1	4.2	4.8	5.7	5.7	5.7	5.1	5.4	6.0	6.6
82.5°	9.1	5.4	3.3	3.9	3.6	3.0	2.4	2.4	2.1	2.4	3.0
85°	5.1	3.0	3.0	2.4	1.5	1.2	1.5	1.2	0.3	0.0	0.3
87.5°	3.0	1.8	0.9	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)