

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: P321229

Luminaire Tested: **GAN-SA5A-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17122 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

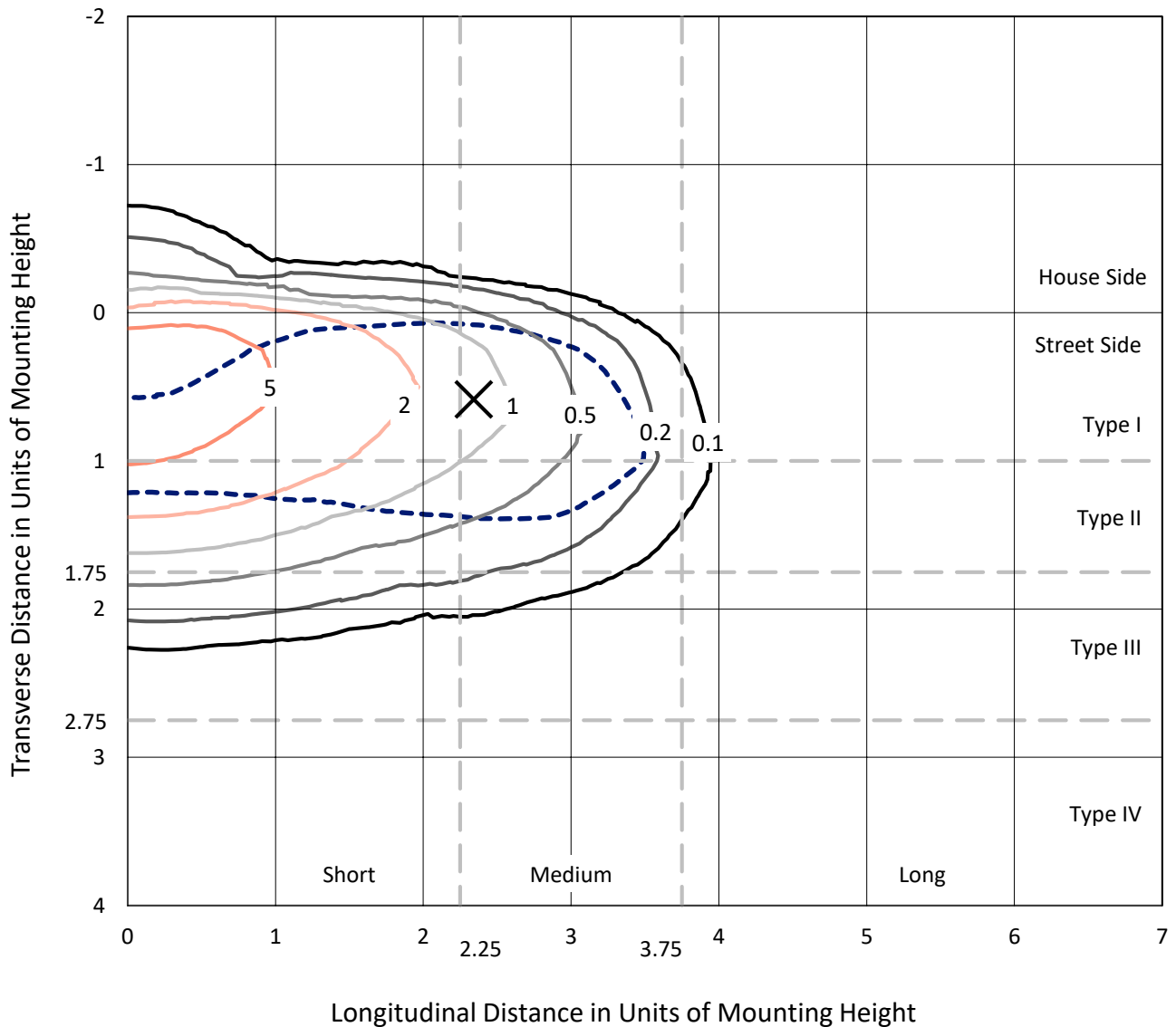
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

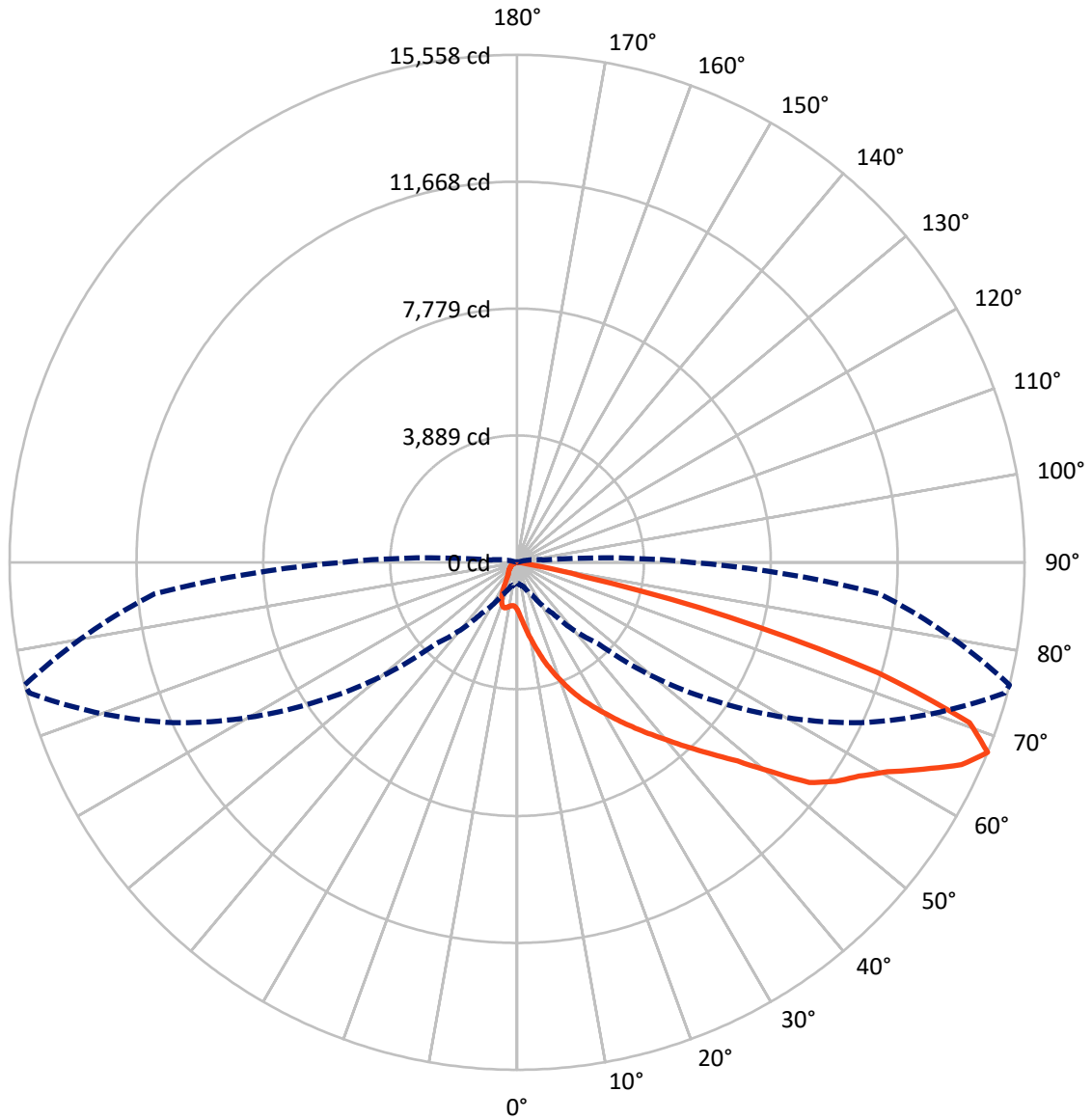
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	850.3	0.0	850.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	16271.8	0.0	16271.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	17122.0	0.0	17122.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	1.1
10°-20°	716.0	4.2
20°-30°	1456.7	8.5
30°-40°	2528.4	14.8
40°-50°	3572.4	20.9
50°-60°	4051.2	23.7
60°-70°	3360.1	19.6
70°-80°	1217.1	7.1
80°-90°	39.5	0.2
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°	17122.0	100.0
0°-180°	17122.0	100.0

**Coefficient of Utilization**

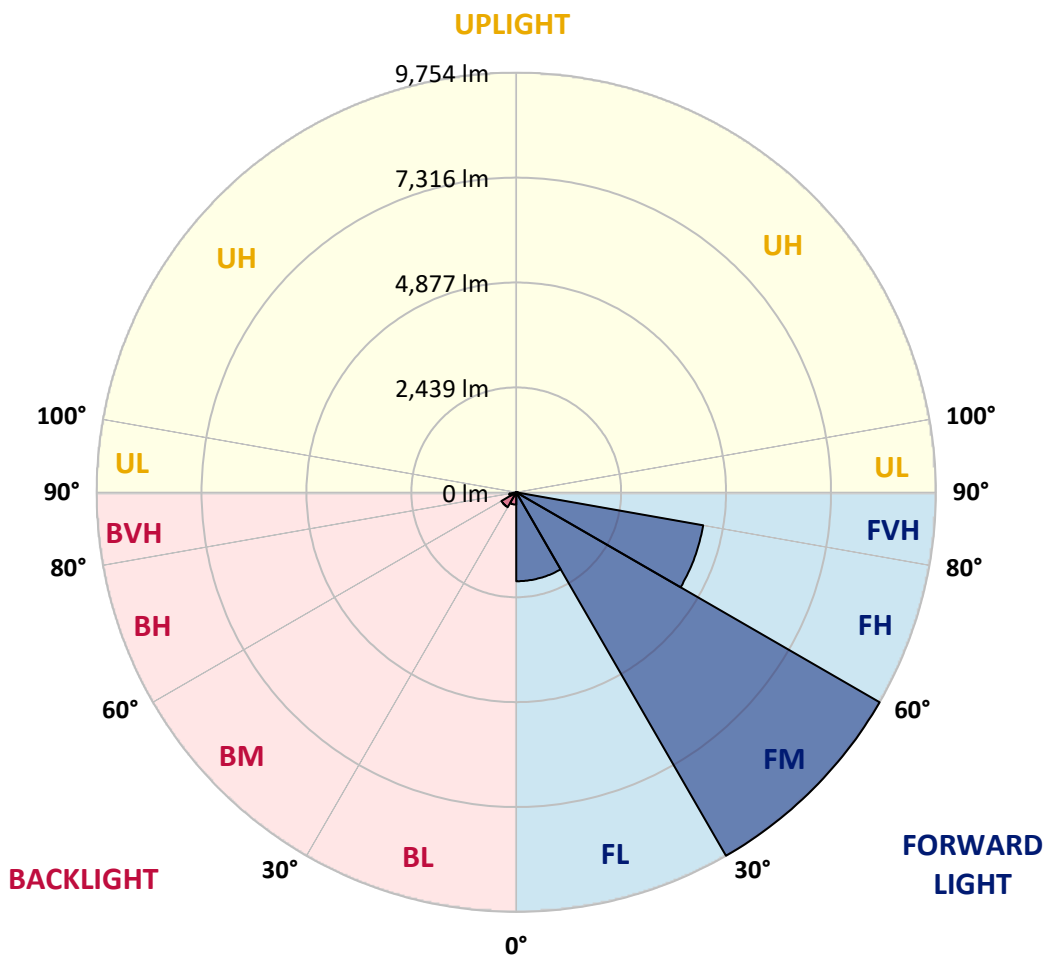


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.6	12.1			
FM (30°-60°)	9754.1	57.0			
FH (60°-80°)	4412.9	25.8			G2/5000
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	286.7	1.7	B1/500		
BM (30°-60°)	397.9	2.3	B1/1000		
BH (60°-80°)	164.3	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	2168.2	2119.4	2130.6	2099.1	2042.1	1925.1	1825.3	1730.8	1620.5	1616.7	1526.0
5°	2923.6	2882.4	2877.1	2813.4	2709.8	2511.0	2317.5	2096.9	1850.8	1832.8	1640.0
7.5°	3609.3	3576.3	3564.3	3488.6	3295.8	3102.2	2850.1	2526.0	2141.2	2108.1	1793.8
10°	4136.0	4120.3	4123.3	4069.2	3904.2	3724.1	3393.3	2979.9	2470.5	2419.5	1978.4
12.5°	4535.1	4538.9	4565.9	4532.9	4440.6	4307.1	3953.7	3463.8	2835.1	2765.3	2189.2
15°	4828.5	4847.2	4896.7	4938.0	4931.2	4815.7	4491.6	3955.2	3222.2	3145.0	2424.0
17.5°	5018.3	5039.3	5111.3	5202.8	5286.9	5259.8	5010.8	4429.3	3613.8	3524.6	2675.3
20°	5184.8	5209.6	5286.9	5407.6	5564.4	5598.2	5434.7	4889.2	4004.7	3895.9	2934.9
22.5°	5545.7	5544.9	5592.2	5662.7	5812.0	5899.0	5795.5	5316.1	4391.1	4277.8	3199.7
25°	6198.4	6173.6	6157.1	6101.6	6134.6	6188.6	6130.9	5715.2	4779.7	4664.9	3468.3
27.5°	6974.1	6989.1	6855.6	6706.3	6590.8	6535.2	6440.7	6085.1	5153.3	5027.3	3730.9
30°	7792.6	7797.1	7639.6	7449.0	7194.7	6983.9	6820.3	6438.5	5537.4	5400.1	3986.0
32.5°	8530.8	8501.6	8345.5	8086.0	7764.9	7527.8	7187.9	6833.1	5944.1	5811.3	4269.5
35°	9116.0	9081.5	8891.7	8655.4	8322.3	8083.7	7674.8	7226.9	6371.7	6241.9	4553.9
37.5°	9543.7	9503.1	9308.1	9065.0	8777.7	8638.9	8239.8	7655.3	6838.3	6698.8	4853.2
40°	9692.2	9656.9	9534.6	9356.8	9125.8	9094.3	8839.2	8148.2	7346.2	7197.7	5192.3
42.5°	9603.7	9569.2	9525.6	9465.6	9369.6	9399.6	9404.9	8710.1	7910.4	7764.1	5566.7
45°	9252.6	9221.8	9266.8	9354.6	9473.9	9622.4	9921.0	9314.1	8540.6	8384.5	5999.6
47.5°	8735.7	8713.1	8837.7	9056.8	9405.6	9815.2	10392.9	9948.8	9248.1	9103.3	6539.7
50°	8000.4	7996.7	8245.8	8645.6	9182.0	9908.3	10880.6	10670.5	10230.9	10078.6	7290.7
52.5°	6855.6	6863.1	7353.0	7992.9	8789.7	9845.2	11194.2	11597.8	11374.2	11215.9	7941.2
55°	5765.5	5810.5	6157.9	7080.7	8188.0	9611.2	11302.2	12030.7	12005.1	11855.1	8302.8
57.5°	4697.9	4779.7	5114.3	5976.3	7309.5	9071.8	11242.9	12218.2	12474.8	12360.0	8779.9
60°	3541.1	3578.6	3964.2	4769.9	6181.9	8087.5	10813.0	12320.2	13117.0	13037.5	9472.4
62.5°	2252.9	2346.7	2688.8	3466.1	4813.5	6720.5	10088.3	12318.7	13920.5	13964.0	10365.9
65°	1186.9	1296.4	1477.9	2147.9	3307.8	5193.8	8998.2	12203.2	14906.3	14967.0	11064.4
67.5°	639.9	671.5	767.5	1114.8	1918.3	3518.6	7396.5	11633.0	15477.2	15557.5	11161.9
70°	468.1	485.4	521.4	616.7	965.5	2043.6	5397.1	10340.4	14741.2	14711.2	9917.3
72.5°	359.4	386.4	413.4	451.6	555.2	1090.8	3360.3	8097.2	11762.1	11564.0	7413.0
75°	283.6	288.1	326.3	360.9	416.4	621.2	1492.2	4715.9	7178.9	6710.0	3844.2
77.5°	226.6	229.6	252.1	282.1	334.6	408.1	462.1	1855.3	2291.9	2045.1	834.3
80°	134.3	141.8	187.6	217.6	277.6	257.3	168.8	402.9	357.9	324.1	140.3
82.5°	75.0	81.0	105.8	171.8	193.6	123.0	84.0	108.8	84.0	81.8	39.8
85°	0.0	3.8	68.3	106.5	78.8	27.0	35.3	36.0	24.8	23.3	15.8
87.5°	0.0	0.0	21.0	20.3	3.0	4.5	8.3	12.0	9.8	9.8	8.3
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°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1481.0	1440.4	1363.9	1288.9	1225.9	1174.1	1127.6	1108.8	1093.8	1091.6	1079.6
5°	1547.0	1465.2	1318.9	1198.9	1118.6	1061.6	1012.8	982.8	959.5	950.5	942.3
7.5°	1646.8	1523.0	1312.9	1174.9	1078.8	982.8	892.8	795.2	734.5	711.2	697.7
10°	1768.3	1599.5	1335.4	1168.1	1000.1	797.5	648.2	524.4	474.1	457.6	453.1
12.5°	1910.1	1694.8	1374.4	1126.1	832.0	566.4	447.1	405.1	393.9	388.6	388.6
15°	2072.9	1799.0	1402.2	1004.6	615.2	428.4	387.1	367.6	355.6	348.9	349.6
17.5°	2239.4	1901.1	1388.7	828.3	453.9	381.1	350.4	329.4	312.8	306.1	304.6
20°	2407.5	1995.6	1313.6	616.7	384.1	345.9	311.3	288.1	271.6	264.8	263.3
22.5°	2581.5	2075.9	1181.6	452.4	345.1	306.8	273.1	249.8	234.1	228.1	225.1
25°	2751.1	2141.2	997.1	366.1	308.3	270.1	237.8	216.1	201.8	195.8	195.1
27.5°	2909.4	2182.4	783.2	323.3	276.1	237.1	207.8	188.3	176.3	171.8	171.1
30°	3051.9	2186.2	579.2	291.8	247.6	208.6	181.6	164.3	153.8	149.3	147.8
32.5°	3196.0	2154.7	421.6	263.3	221.3	183.8	157.5	144.0	136.5	132.8	132.8
35°	3331.8	2081.9	328.6	238.6	195.8	159.8	138.8	129.0	124.5	120.8	120.8
37.5°	3464.6	1977.6	279.1	216.8	171.8	139.5	122.3	116.3	112.5	108.8	108.8
40°	3599.6	1846.3	253.6	196.6	152.3	123.8	108.8	103.5	99.8	96.8	96.0
42.5°	3765.4	1694.8	237.1	177.8	135.0	109.5	96.0	90.0	87.0	84.0	82.5
45°	3957.5	1564.2	223.6	159.0	120.8	97.5	83.3	77.3	72.8	69.0	68.3
47.5°	4234.3	1469.7	205.6	138.8	107.3	84.8	72.0	65.3	58.5	54.8	54.0
50°	4587.6	1391.7	182.3	120.8	93.8	72.0	60.0	51.8	45.8	42.0	42.0
52.5°	4763.2	1289.6	161.3	105.0	78.8	60.8	48.8	39.0	36.0	32.3	32.3
55°	4833.7	1211.6	140.3	89.3	65.3	50.3	38.3	30.0	27.8	25.5	24.8
57.5°	5031.8	1189.1	122.3	75.8	54.0	39.8	29.3	22.5	21.0	18.0	18.0
60°	5350.6	1200.4	105.8	64.5	43.5	30.8	21.8	17.3	15.8	12.8	12.8
62.5°	5695.0	1186.1	89.3	55.5	33.8	22.5	15.0	12.8	12.8	7.5	6.8
65°	5761.0	1056.3	76.5	45.8	26.3	16.5	9.8	8.3	11.3	1.5	0.0
67.5°	5346.9	819.2	66.0	35.3	19.5	12.8	7.5	3.8	9.8	0.0	0.0
70°	4275.5	520.7	53.3	25.5	15.0	10.5	6.0	1.5	7.5	0.0	0.0
72.5°	3023.4	302.3	42.0	18.0	12.8	8.3	4.5	0.0	4.5	0.0	0.0
75°	1529.0	161.3	26.3	13.5	9.8	6.0	3.0	0.0	0.8	0.0	0.0
77.5°	330.9	75.0	16.5	9.8	6.8	3.8	1.5	0.0	0.0	0.0	0.0
80°	72.0	33.0	10.5	6.0	3.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.3	17.3	5.3	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	9.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	3.0	0.8	0.8	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)