

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: P321279

Luminaire Tested: **GAN-SA5B-740-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321279  
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-SA5B-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA 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: 23053 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

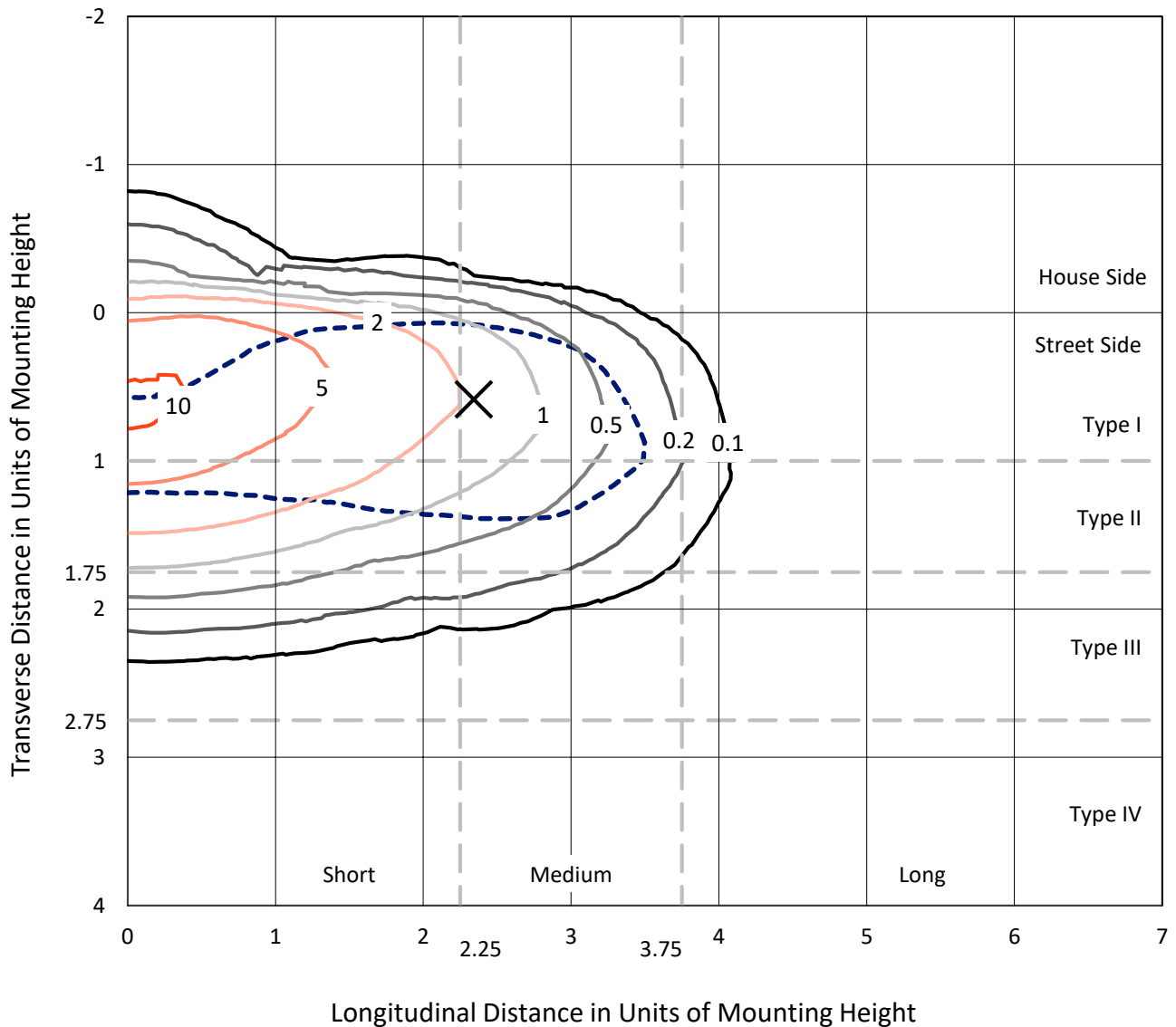
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

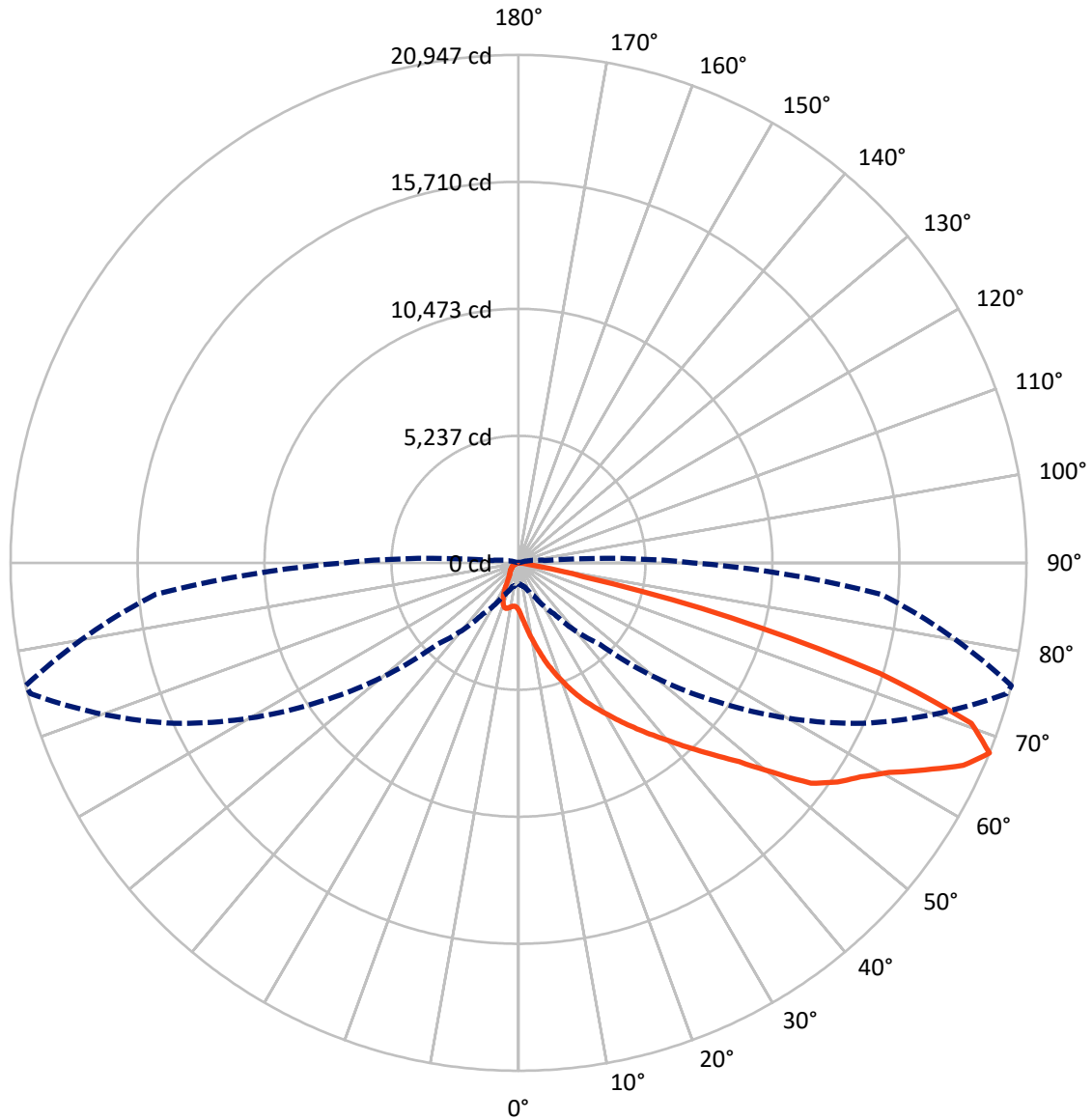
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	1144.7	0.0	1144.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	21908.3	0.0	21908.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	23053.0	0.0	23053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.2	1.1
10°-20°	964.0	4.2
20°-30°	1961.4	8.5
30°-40°	3404.3	14.8
40°-50°	4809.8	20.9
50°-60°	5454.5	23.7
60°-70°	4524.0	19.6
70°-80°	1638.7	7.1
80°-90°	53.1	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°	23053.0	100.0
0°-180°	23053.0	100.0

**Coefficient of Utilization**

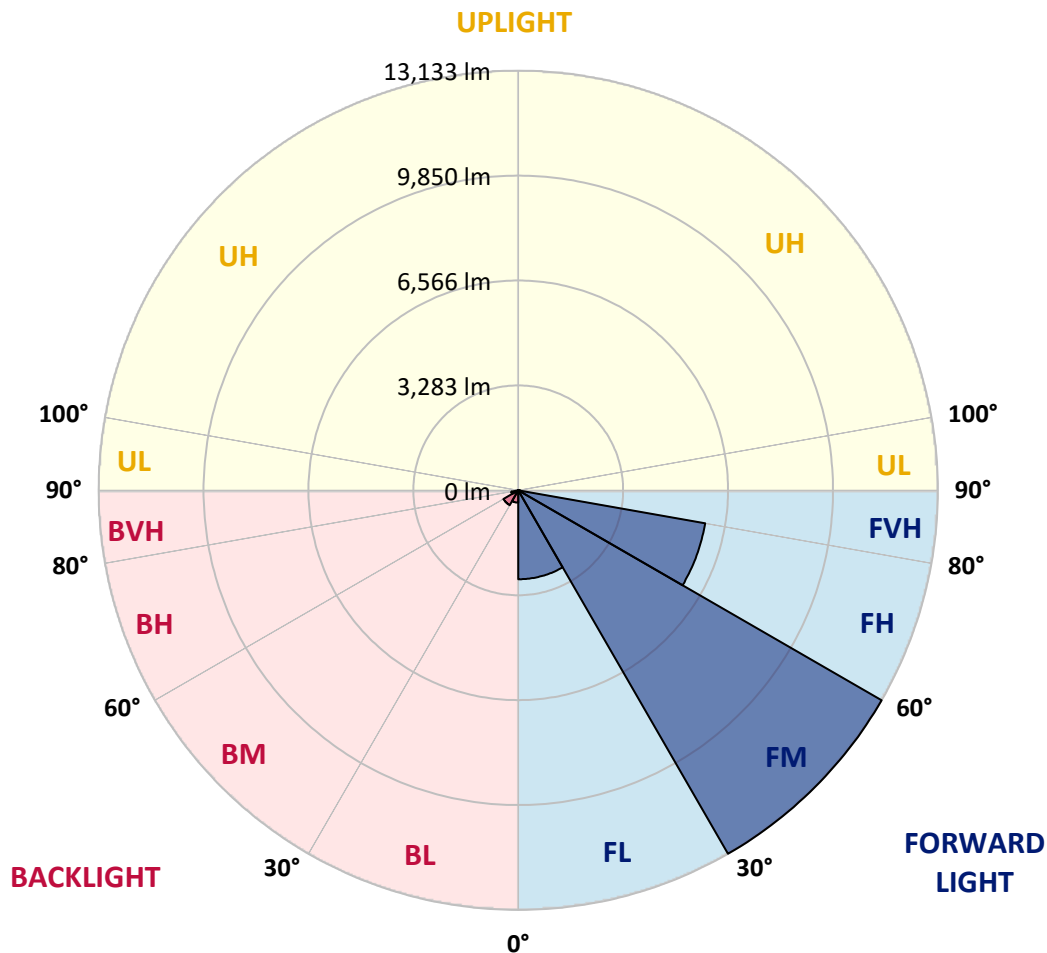


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.4	12.1			
FM (30°-60°)	13132.8	57.0			
FH (60°-80°)	5941.5	25.8			G3/7500
FVH (80°-90°)	51.5	0.2			G1/100
BL (0°-30°)	386.1	1.7	B1/500		
BM (30°-60°)	535.8	2.3	B1/1000		
BH (60°-80°)	221.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.7	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6
2.5°	2919.2	2853.5	2868.7	2826.3	2749.5	2591.9	2457.6	2330.3	2181.8	2176.8	2054.6
5°	3936.4	3880.8	3873.8	3787.9	3648.5	3380.8	3120.2	2823.2	2491.9	2467.7	2208.1
7.5°	4859.6	4815.2	4799.0	4697.0	4437.4	4176.8	3837.4	3401.0	2882.8	2838.4	2415.2
10°	5568.7	5547.5	5551.5	5478.8	5256.6	5014.2	4568.7	4012.1	3326.3	3257.6	2663.6
12.5°	6106.1	6111.1	6147.5	6103.1	5978.8	5799.0	5323.3	4663.7	3817.2	3723.2	2947.5
15°	6501.0	6526.3	6593.0	6648.5	6639.4	6483.9	6047.5	5325.3	4338.4	4234.4	3263.6
17.5°	6756.6	6784.9	6881.8	7005.1	7118.2	7081.8	6746.5	5963.7	4865.7	4745.5	3602.0
20°	6980.8	7014.2	7118.2	7280.8	7491.9	7537.4	7317.2	6582.9	5391.9	5245.5	3951.5
22.5°	7466.7	7465.7	7529.3	7624.3	7825.3	7942.5	7803.1	7157.6	5912.1	5759.6	4308.1
25°	8345.5	8312.1	8289.9	8215.2	8259.6	8332.4	8254.6	7695.0	6435.4	6280.8	4669.7
27.5°	9389.9	9410.1	9230.3	9029.3	8873.8	8799.0	8671.7	8193.0	6938.4	6768.7	5023.2
30°	10492.0	10498.0	10285.9	10029.3	9686.9	9403.1	9182.9	8668.7	7455.6	7270.7	5366.7
32.5°	11485.9	11446.5	11236.4	10886.9	10454.6	10135.4	9677.8	9200.0	8003.1	7824.3	5748.5
35°	12273.8	12227.3	11971.8	11653.6	11205.1	10883.9	10333.4	9730.3	8578.8	8404.1	6131.3
37.5°	12849.5	12795.0	12532.4	12205.1	11818.2	11631.4	11094.0	10307.1	9207.1	9019.2	6534.4
40°	13049.5	13002.1	12837.4	12598.0	12286.9	12244.5	11901.0	10970.7	9890.9	9690.9	6990.9
42.5°	12930.3	12883.9	12825.3	12744.5	12615.2	12655.6	12662.7	11727.3	10650.5	10453.6	7495.0
45°	12457.6	12416.2	12476.8	12595.0	12755.6	12955.6	13357.6	12540.4	11499.0	11288.9	8077.8
47.5°	11761.7	11731.4	11899.0	12194.0	12663.7	13215.2	13993.0	13395.0	12451.6	12256.6	8805.1
50°	10771.8	10766.7	11102.1	11640.4	12362.7	13340.4	14649.5	14366.7	13774.8	13569.7	9816.2
52.5°	9230.3	9240.4	9900.0	10761.7	11834.4	13255.6	15071.8	15615.2	15314.2	15101.1	10692.0
55°	7762.7	7823.3	8290.9	9533.4	11024.3	12940.4	15217.2	16198.0	16163.7	15961.7	11178.8
57.5°	6325.3	6435.4	6885.9	8046.5	9841.4	12214.2	15137.4	16450.6	16796.0	16641.5	11821.3
60°	4767.7	4818.2	5337.4	6422.2	8323.3	10888.9	14558.6	16587.9	17660.7	17553.6	12753.6
62.5°	3033.3	3159.6	3620.2	4666.7	6480.8	9048.5	13582.9	16585.9	18742.5	18801.1	13956.6
65°	1598.0	1745.5	1989.9	2891.9	4453.6	6993.0	12115.2	16430.4	20069.8	20151.6	14897.0
67.5°	861.6	904.0	1033.3	1501.0	2582.8	4737.4	9958.6	15662.7	20838.5	20946.5	15028.3
70°	630.3	653.5	702.0	830.3	1300.0	2751.5	7266.7	13922.3	19847.5	19807.1	13352.6
72.5°	483.8	520.2	556.6	608.1	747.5	1468.7	4524.3	10902.1	15836.4	15569.7	9980.8
75°	381.8	387.9	439.4	485.9	560.6	836.4	2009.1	6349.5	9665.7	9034.4	5175.8
77.5°	305.1	309.1	339.4	379.8	450.5	549.5	622.2	2498.0	3085.9	2753.5	1123.2
80°	180.8	190.9	252.5	292.9	373.7	346.5	227.3	542.4	481.8	436.4	188.9
82.5°	101.0	109.1	142.4	231.3	260.6	165.7	113.1	146.5	113.1	110.1	53.5
85°	0.0	5.1	91.9	143.4	106.1	36.4	47.5	48.5	33.3	31.3	21.2
87.5°	0.0	0.0	28.3	27.3	4.0	6.1	11.1	16.2	13.1	13.1	11.1
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°	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6
2.5°	1993.9	1939.4	1836.4	1735.4	1650.5	1580.8	1518.2	1492.9	1472.7	1469.7	1453.5
5°	2082.8	1972.7	1775.8	1614.1	1506.1	1429.3	1363.6	1323.2	1291.9	1279.8	1268.7
7.5°	2217.2	2050.5	1767.7	1581.8	1452.5	1323.2	1202.0	1070.7	988.9	957.6	939.4
10°	2380.8	2153.5	1798.0	1572.7	1346.5	1073.7	872.7	706.1	638.4	616.2	610.1
12.5°	2571.7	2281.8	1850.5	1516.2	1120.2	762.6	602.0	545.5	530.3	523.2	523.2
15°	2790.9	2422.2	1887.9	1352.5	828.3	576.8	521.2	495.0	478.8	469.7	470.7
17.5°	3015.2	2559.6	1869.7	1115.2	611.1	513.1	471.7	443.4	421.2	412.1	410.1
20°	3241.4	2686.9	1768.7	830.3	517.2	465.7	419.2	387.9	365.7	356.6	354.5
22.5°	3475.8	2795.0	1590.9	609.1	464.6	413.1	367.7	336.4	315.2	307.1	303.0
25°	3704.1	2882.8	1342.4	492.9	415.2	363.6	320.2	290.9	271.7	263.6	262.6
27.5°	3917.2	2938.4	1054.5	435.4	371.7	319.2	279.8	253.5	237.4	231.3	230.3
30°	4109.1	2943.4	779.8	392.9	333.3	280.8	244.4	221.2	207.1	201.0	199.0
32.5°	4303.0	2901.0	567.7	354.5	298.0	247.5	212.1	193.9	183.8	178.8	178.8
35°	4485.9	2803.0	442.4	321.2	263.6	215.2	186.9	173.7	167.7	162.6	162.6
37.5°	4664.7	2662.6	375.8	291.9	231.3	187.9	164.6	156.6	151.5	146.5	146.5
40°	4846.5	2485.9	341.4	264.6	205.1	166.7	146.5	139.4	134.3	130.3	129.3
42.5°	5069.7	2281.8	319.2	239.4	181.8	147.5	129.3	121.2	117.2	113.1	111.1
45°	5328.3	2106.1	301.0	214.1	162.6	131.3	112.1	104.0	98.0	92.9	91.9
47.5°	5701.0	1978.8	276.8	186.9	144.4	114.1	97.0	87.9	78.8	73.7	72.7
50°	6176.8	1873.7	245.5	162.6	126.3	97.0	80.8	69.7	61.6	56.6	56.6
52.5°	6413.2	1736.4	217.2	141.4	106.1	81.8	65.7	52.5	48.5	43.4	43.4
55°	6508.1	1631.3	188.9	120.2	87.9	67.7	51.5	40.4	37.4	34.3	33.3
57.5°	6774.8	1601.0	164.6	102.0	72.7	53.5	39.4	30.3	28.3	24.2	24.2
60°	7204.1	1616.2	142.4	86.9	58.6	41.4	29.3	23.2	21.2	17.2	17.2
62.5°	7667.7	1597.0	120.2	74.7	45.5	30.3	20.2	17.2	17.2	10.1	9.1
65°	7756.6	1422.2	103.0	61.6	35.4	22.2	13.1	11.1	15.2	2.0	0.0
67.5°	7199.0	1103.0	88.9	47.5	26.3	17.2	10.1	5.1	13.1	0.0	0.0
70°	5756.6	701.0	71.7	34.3	20.2	14.1	8.1	2.0	10.1	0.0	0.0
72.5°	4070.7	407.1	56.6	24.2	17.2	11.1	6.1	0.0	6.1	0.0	0.0
75°	2058.6	217.2	35.4	18.2	13.1	8.1	4.0	0.0	1.0	0.0	0.0
77.5°	445.5	101.0	22.2	13.1	9.1	5.1	2.0	0.0	0.0	0.0	0.0
80°	97.0	44.4	14.1	8.1	5.1	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.4	23.2	7.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.2	12.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	4.0	1.0	1.0	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)