

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: P321292

Luminaire Tested: **GAN-SA8C-740-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321292  
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-SA8C-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA 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: 45756 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

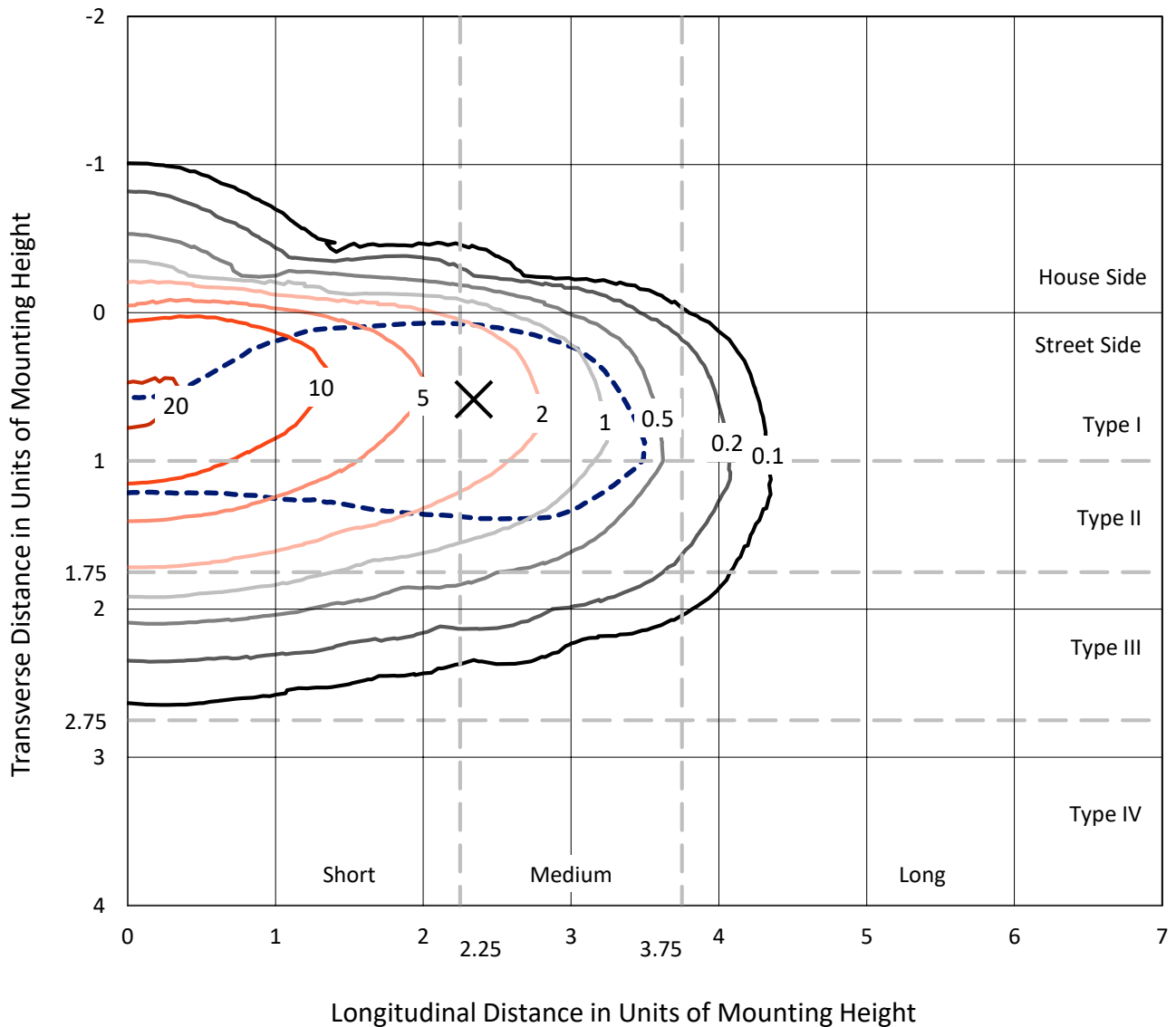
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

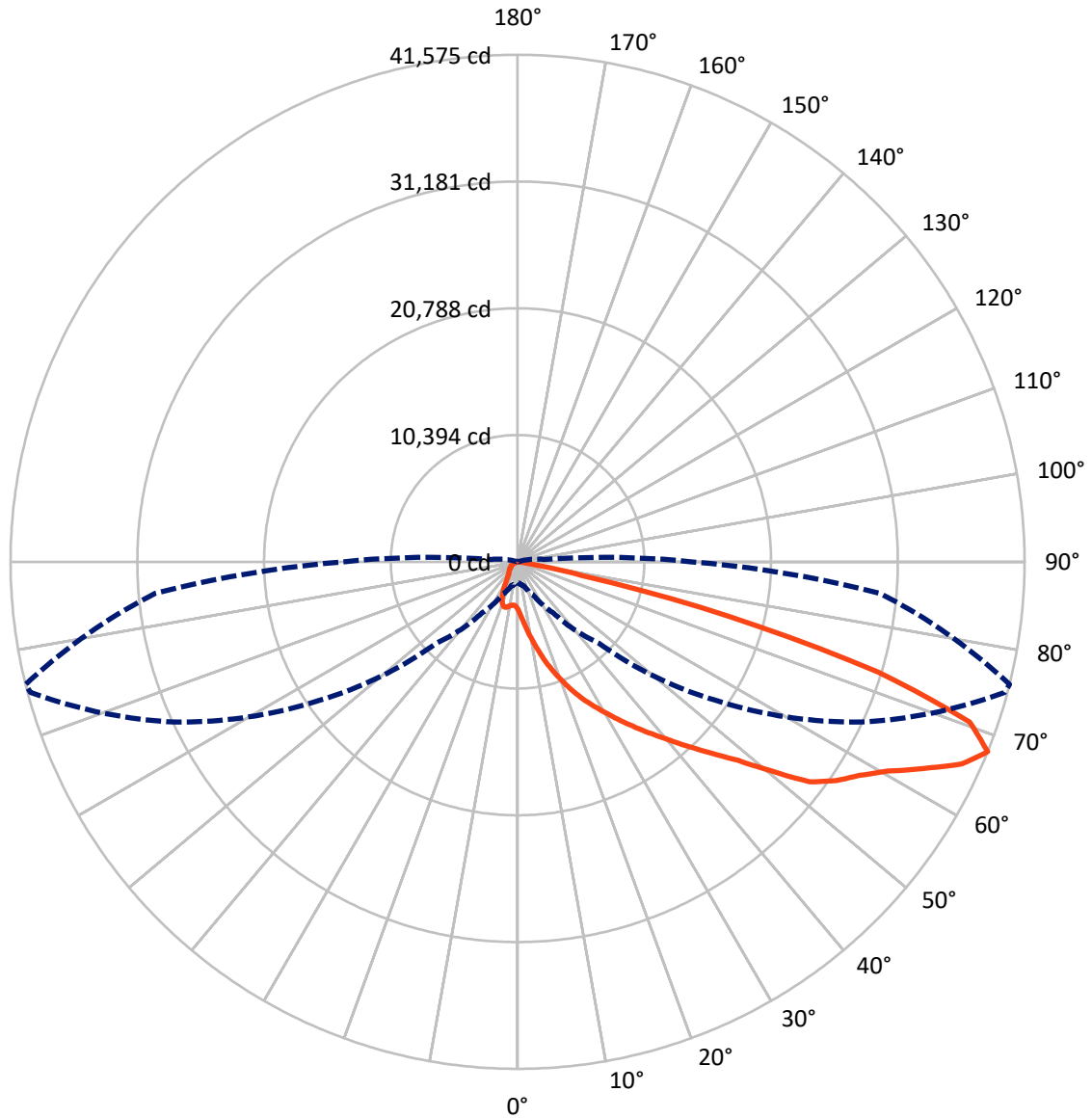
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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	2272.1	0.0	2272.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	43483.9	0.0	43483.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	45756.0	0.0	45756.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.6	1.1
10°-20°	1913.3	4.2
20°-30°	3892.9	8.5
30°-40°	6756.9	14.8
40°-50°	9546.6	20.9
50°-60°	10826.3	23.7
60°-70°	8979.4	19.6
70°-80°	3252.6	7.1
80°-90°	105.5	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°	45756.0	100.0
0°-180°	45756.0	100.0

**Coefficient of Utilization**

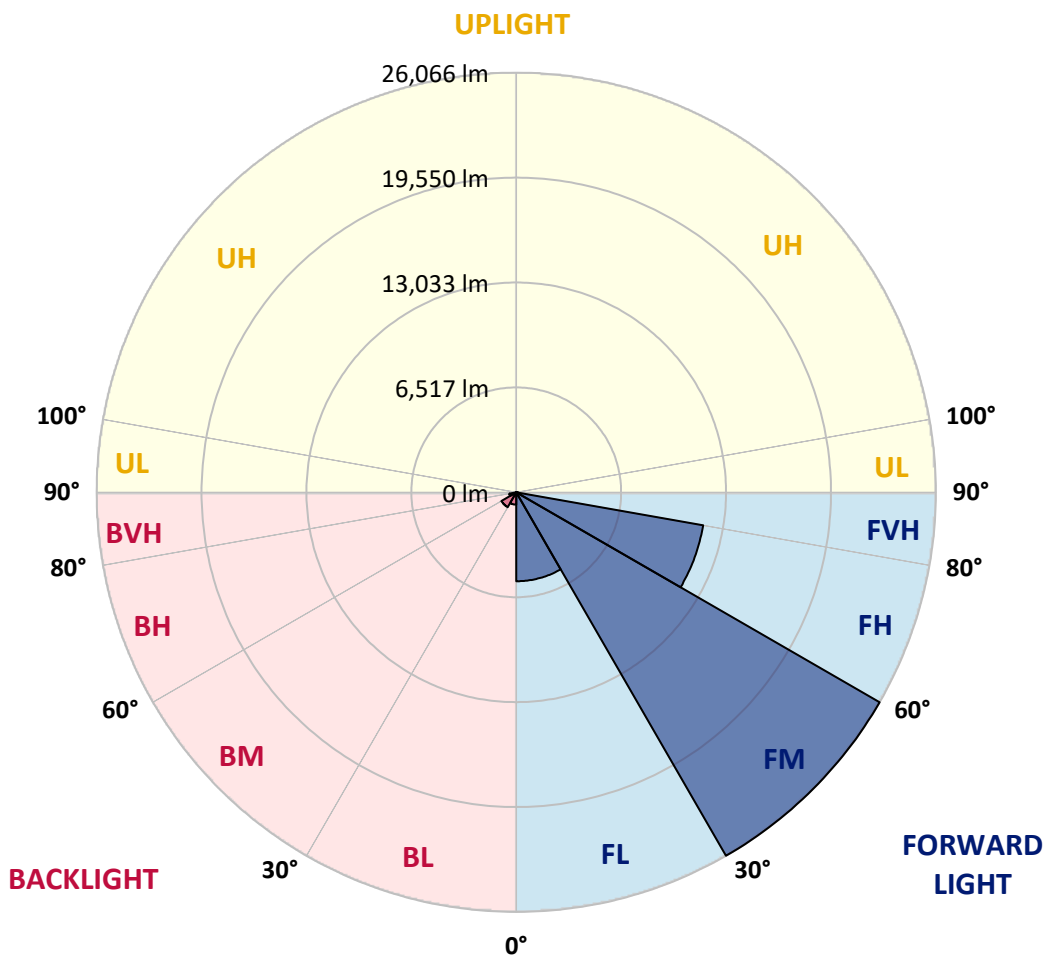


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5522.6	12.1			
FM (30°-60°)	26066.3	57.0			
FH (60°-80°)	11792.9	25.8			G4/12000
FVH (80°-90°)	102.2	0.2			G2/225
BL (0°-30°)	766.3	1.7	B2/1000		
BM (30°-60°)	1063.4	2.3	B2/2500		
BH (60°-80°)	439.1	1.0	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4
2.5°	5794.1	5663.8	5693.8	5609.6	5457.3	5144.5	4877.9	4625.2	4330.5	4320.5	4077.9
5°	7813.0	7702.7	7688.7	7518.3	7241.6	6710.3	6193.1	5603.6	4946.0	4897.9	4382.7
7.5°	9645.4	9557.2	9525.2	9322.7	8807.4	8290.1	7616.5	6750.4	5721.9	5633.7	4793.7
10°	11052.9	11010.8	11018.8	10874.4	10433.4	9952.2	9068.0	7963.4	6602.0	6465.7	5286.8
12.5°	12119.5	12129.5	12201.7	12113.4	11866.8	11510.0	10565.7	9256.5	7576.4	7390.0	5850.2
15°	12903.4	12953.5	13085.8	13196.1	13178.0	12869.3	12003.2	10569.7	8610.9	8404.4	6477.7
17.5°	13410.6	13466.7	13659.2	13903.8	14128.3	14056.2	13390.5	11836.8	9657.5	9418.9	7149.4
20°	13855.7	13921.8	14128.3	14451.1	14870.1	14960.4	14523.3	13065.8	10702.0	10411.3	7843.1
22.5°	14820.0	14818.0	14944.3	15132.8	15531.8	15764.3	15487.6	14206.5	11734.5	11431.8	8550.8
25°	16564.3	16498.1	16454.0	16305.6	16393.8	16538.2	16383.8	15273.1	12773.0	12466.3	9268.5
27.5°	18637.3	18677.4	18320.5	17921.6	17612.8	17464.4	17211.8	16261.5	13771.5	13434.7	9970.2
30°	20824.6	20836.6	20415.6	19906.4	19226.7	18663.4	18226.3	17205.8	14798.0	14431.1	10651.9
32.5°	22797.4	22719.2	22302.2	21608.5	20750.4	20116.9	19208.7	18260.4	15884.6	15529.7	11409.7
35°	24361.2	24269.0	23761.8	23130.2	22240.1	21602.5	20509.9	19312.9	17027.4	16680.5	12169.6
37.5°	25504.0	25395.7	24874.5	24224.9	23457.0	23086.1	22019.5	20457.7	18274.4	17901.5	12969.5
40°	25901.0	25806.7	25479.9	25004.8	24387.3	24303.1	23621.4	21774.9	19631.7	19234.8	13875.7
42.5°	25664.4	25572.2	25455.9	25295.5	25038.9	25119.1	25133.1	23276.6	21139.4	20748.4	14876.2
45°	24726.1	24643.9	24764.2	24998.8	25317.5	25714.5	26512.4	24890.5	22823.5	22406.5	16033.0
47.5°	23344.7	23284.6	23617.4	24202.8	25135.1	26229.8	27773.5	26586.6	24714.1	24327.1	17476.5
50°	21380.0	21369.9	22035.6	23104.2	24537.6	26478.4	29076.7	28515.3	27340.5	26933.5	19483.4
52.5°	18320.5	18340.6	19649.8	21359.9	23489.1	26309.9	29914.7	30993.3	30395.9	29972.9	21221.6
55°	15407.4	15527.7	16456.0	18922.0	21881.2	25684.4	30203.4	32150.1	32082.0	31681.0	22187.9
57.5°	12554.5	12773.0	13667.2	15970.8	19533.5	24242.9	30045.0	32651.4	33337.0	33030.3	23463.0
60°	9463.0	9563.2	10593.7	12747.0	16520.2	21612.5	28896.2	32924.0	35053.2	34840.7	25313.5
62.5°	6020.6	6271.2	7185.5	9262.5	12863.3	17959.7	26959.5	32920.0	37200.4	37316.7	27701.3
65°	3171.7	3464.4	3949.6	5740.0	8839.5	13879.7	24046.4	32611.3	39834.8	39997.2	29567.9
67.5°	1710.2	1794.4	2051.0	2979.2	5126.5	9402.9	19766.0	31087.6	41360.5	41575.1	29828.5
70°	1251.0	1297.2	1393.4	1648.0	2580.3	5461.3	14423.1	27633.2	39393.7	39313.6	26502.4
72.5°	960.3	1032.5	1104.7	1206.9	1483.6	2915.1	8979.8	21638.6	31432.4	30903.1	19810.1
75°	757.8	769.9	872.1	964.3	1112.7	1660.0	3987.7	12602.6	19184.6	17931.6	10273.0
77.5°	605.5	613.5	673.6	753.8	894.2	1090.7	1235.0	4958.1	6124.9	5465.3	2229.4
80°	358.9	378.9	501.2	581.4	741.8	687.7	451.1	1076.6	956.3	866.1	374.9
82.5°	200.5	216.5	282.7	459.1	517.3	328.8	224.5	290.7	224.5	218.5	106.3
85°	0.0	10.0	182.4	284.7	210.5	72.2	94.2	96.2	66.2	62.2	42.1
87.5°	0.0	0.0	56.1	54.1	8.0	12.0	22.1	32.1	26.1	26.1	22.1
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°	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4	3881.4
2.5°	3957.6	3849.4	3644.9	3444.4	3276.0	3137.6	3013.3	2963.2	2923.1	2917.1	2885.0
5°	4134.0	3915.5	3524.6	3203.8	2989.3	2836.9	2706.6	2626.4	2564.2	2540.2	2518.1
7.5°	4400.7	4069.9	3508.5	3139.6	2883.0	2626.4	2385.8	2125.2	1962.8	1900.6	1864.5
10°	4725.5	4274.4	3568.7	3121.6	2672.5	2131.2	1732.2	1401.4	1267.1	1223.0	1210.9
12.5°	5104.4	4529.0	3672.9	3009.3	2223.4	1513.7	1194.9	1082.6	1052.6	1038.5	1038.5
15°	5539.5	4807.7	3747.1	2684.5	1644.0	1144.8	1034.5	982.4	950.3	932.3	934.3
17.5°	5984.5	5080.3	3711.0	2213.4	1212.9	1018.5	936.3	880.1	836.0	818.0	814.0
20°	6433.6	5333.0	3510.5	1648.0	1026.5	924.2	832.0	769.9	725.8	707.7	703.7
22.5°	6898.8	5547.5	3157.7	1208.9	922.2	820.0	729.8	667.6	625.5	609.5	601.5
25°	7351.9	5721.9	2664.5	978.4	824.0	721.8	635.5	577.4	539.3	523.3	521.3
27.5°	7774.9	5832.2	2093.1	864.1	737.8	633.5	555.3	503.2	471.1	459.1	457.1
30°	8155.8	5842.2	1547.8	779.9	661.6	557.4	485.2	439.1	411.0	399.0	395.0
32.5°	8540.8	5758.0	1126.7	703.7	591.4	491.2	421.0	384.9	364.9	354.9	354.9
35°	8903.6	5563.5	878.1	637.5	523.3	427.0	370.9	344.8	332.8	322.8	322.8
37.5°	9258.5	5284.8	745.8	579.4	459.1	372.9	326.8	310.8	300.7	290.7	290.7
40°	9619.4	4934.0	677.6	525.3	407.0	330.8	290.7	276.7	266.6	258.6	256.6
42.5°	10062.5	4529.0	633.5	475.2	360.9	292.7	256.6	240.6	232.6	224.5	220.5
45°	10575.7	4180.2	597.5	425.0	322.8	260.6	222.5	206.5	194.5	184.4	182.4
47.5°	11315.5	3927.5	549.3	370.9	286.7	226.6	192.5	174.4	156.4	146.4	144.4
50°	12259.8	3719.0	487.2	322.8	250.6	192.5	160.4	138.3	122.3	112.3	112.3
52.5°	12728.9	3446.4	431.0	280.7	210.5	162.4	130.3	104.3	96.2	86.2	86.2
55°	12917.4	3237.9	374.9	238.6	174.4	134.3	102.2	80.2	74.2	68.2	66.2
57.5°	13446.7	3177.7	326.8	202.5	144.4	106.3	78.2	60.1	56.1	48.1	48.1
60°	14298.8	3207.8	282.7	172.4	116.3	82.2	58.1	46.1	42.1	34.1	34.1
62.5°	15219.0	3169.7	238.6	148.4	90.2	60.1	40.1	34.1	34.1	20.0	18.0
65°	15395.4	2822.9	204.5	122.3	70.2	44.1	26.1	22.1	30.1	4.0	0.0
67.5°	14288.7	2189.3	176.4	94.2	52.1	34.1	20.0	10.0	26.1	0.0	0.0
70°	11425.8	1391.4	142.3	68.2	40.1	28.1	16.0	4.0	20.0	0.0	0.0
72.5°	8079.6	808.0	112.3	48.1	34.1	22.1	12.0	0.0	12.0	0.0	0.0
75°	4085.9	431.0	70.2	36.1	26.1	16.0	8.0	0.0	2.0	0.0	0.0
77.5°	884.1	200.5	44.1	26.1	18.0	10.0	4.0	0.0	0.0	0.0	0.0
80°	192.5	88.2	28.1	16.0	10.0	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.2	46.1	14.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.1	24.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	8.0	2.0	2.0	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)