

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: P321262

Luminaire Tested: **GAN-SA8D-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321262  
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-SA8D-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA 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: 45710 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

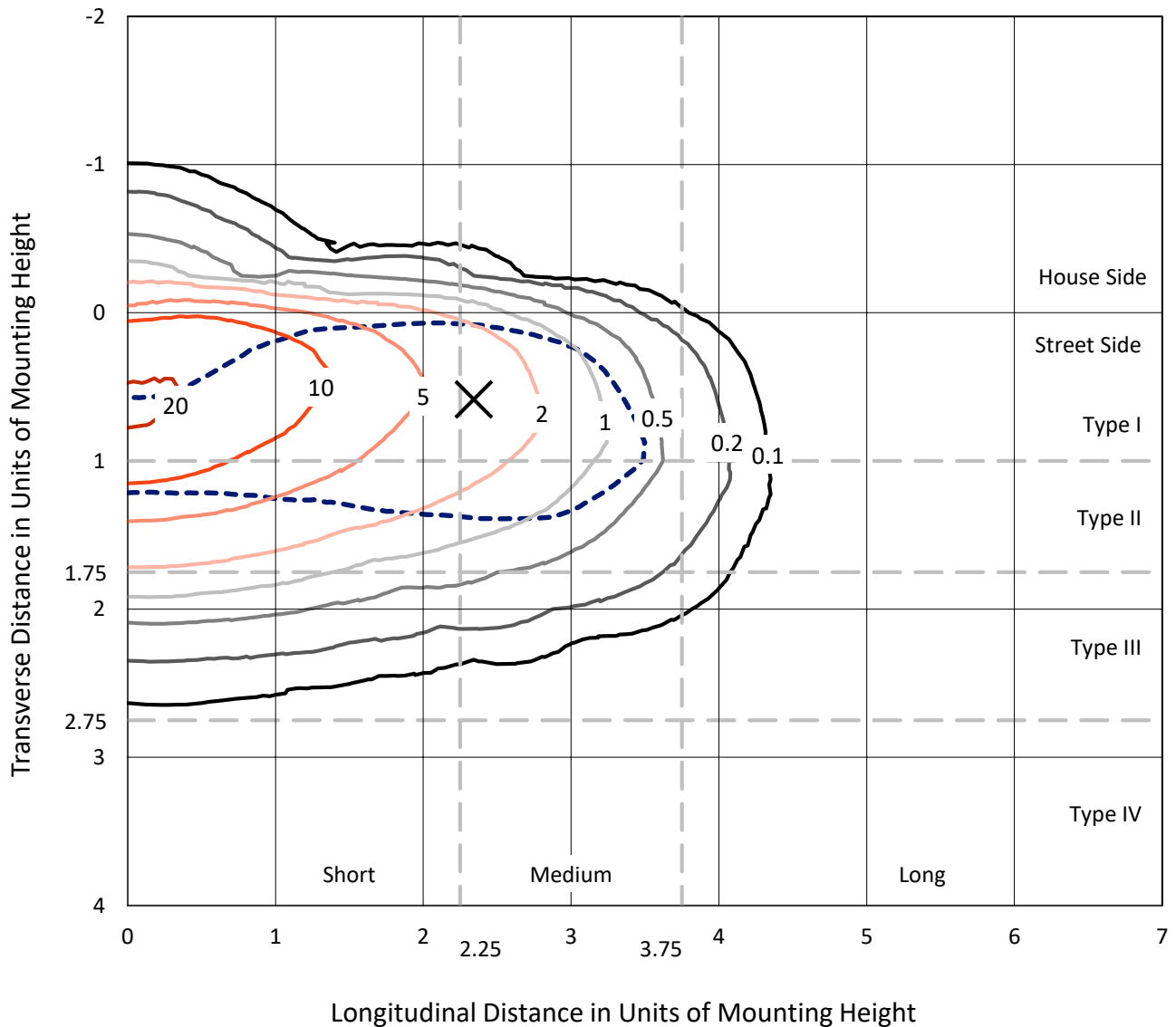
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

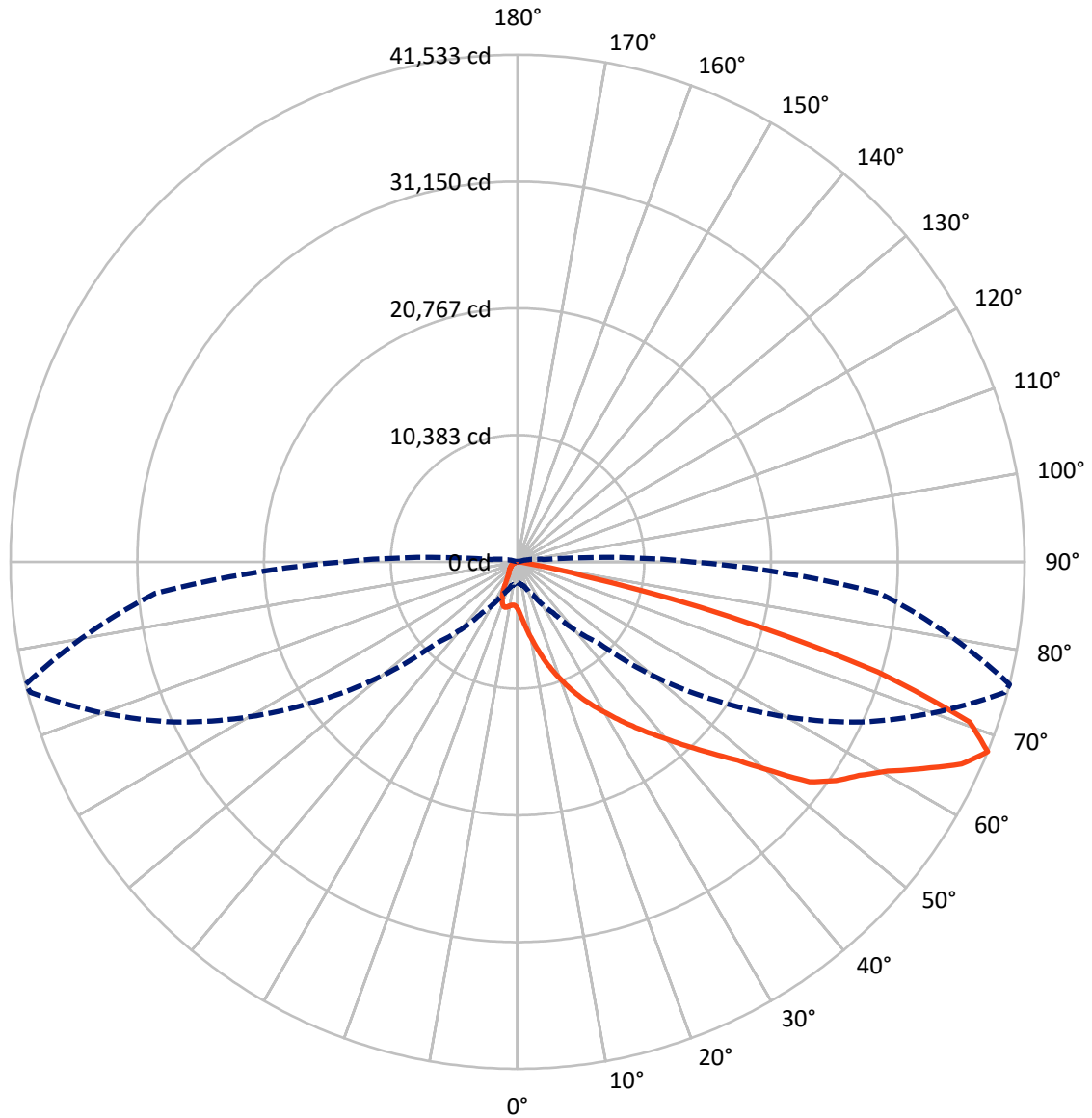
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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	2269.8	0.0	2269.8
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	43440.2	0.0	43440.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	45710.0	0.0	45710.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.2	1.1
10°-20°	1911.4	4.2
20°-30°	3889.0	8.5
30°-40°	6750.1	14.8
40°-50°	9537.0	20.9
50°-60°	10815.4	23.7
60°-70°	8970.3	19.6
70°-80°	3249.3	7.1
80°-90°	105.4	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°	45710.0	100.0
0°-180°	45710.0	100.0

**Coefficient of Utilization**

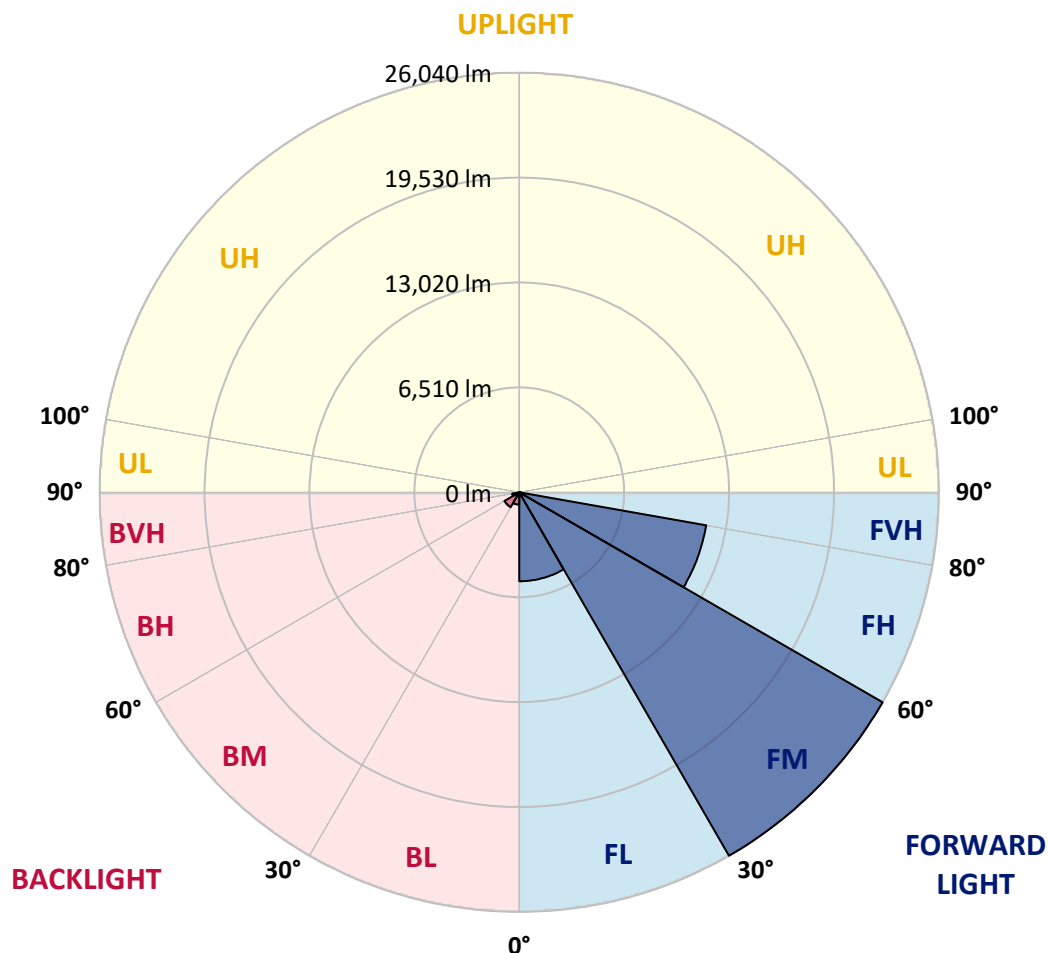


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5517.0	12.1			
FM (30°-60°)	26040.1	57.0			
FH (60°-80°)	11781.0	25.8			G4/12000
FVH (80°-90°)	102.1	0.2			G2/225
BL (0°-30°)	765.5	1.7	B2/1000		
BM (30°-60°)	1062.4	2.3	B2/2500		
BH (60°-80°)	438.7	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°	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5
2.5°	5788.3	5658.1	5688.1	5604.0	5451.8	5139.3	4873.0	4620.6	4326.2	4316.2	4073.8
5°	7805.1	7695.0	7681.0	7510.7	7234.3	6703.6	6186.8	5598.0	4941.0	4893.0	4378.2
7.5°	9635.7	9547.6	9515.6	9313.3	8798.6	8281.8	7608.9	6743.6	5716.2	5628.0	4788.8
10°	11041.8	10999.7	11007.7	10863.5	10422.9	9942.2	9058.9	7955.3	6595.4	6459.2	5281.5
12.5°	12107.3	12117.3	12189.4	12101.3	11854.9	11498.4	10555.1	9247.2	7568.8	7382.5	5844.3
15°	12890.4	12940.5	13072.7	13182.8	13164.8	12856.3	11991.1	10559.1	8602.3	8396.0	6471.2
17.5°	13397.1	13453.2	13645.5	13889.8	14114.1	14042.0	13377.1	11824.9	9647.8	9409.4	7142.2
20°	13841.7	13907.8	14114.1	14436.6	14855.2	14945.3	14508.7	13052.6	10691.3	10400.8	7835.2
22.5°	14805.1	14803.1	14929.3	15117.6	15516.1	15748.5	15472.1	14192.2	11722.7	11420.3	8542.2
25°	16547.6	16481.5	16437.5	16289.2	16377.4	16521.6	16367.4	15257.8	12760.2	12453.8	9259.2
27.5°	18618.6	18658.6	18302.1	17903.5	17595.1	17446.9	17194.5	16245.2	13757.6	13421.1	9960.2
30°	20803.7	20815.7	20395.1	19886.4	19207.4	18644.6	18208.0	17188.5	14783.1	14416.6	10641.2
32.5°	22774.5	22696.4	22279.8	21586.8	20729.6	20096.7	19189.4	18242.0	15868.6	15514.1	11398.3
35°	24336.7	24244.6	23737.9	23107.0	22217.7	21580.8	20489.2	19293.5	17010.3	16663.8	12157.3
37.5°	25478.3	25370.2	24849.5	24200.5	23433.4	23062.9	21997.4	20437.2	18256.0	17883.5	12956.5
40°	25874.9	25780.8	25454.3	24979.6	24362.8	24278.6	23597.7	21753.0	19612.0	19215.4	13861.8
42.5°	25638.6	25546.4	25430.3	25270.1	25013.7	25093.8	25107.8	23253.2	21118.1	20727.6	14861.2
45°	24701.2	24619.1	24739.3	24973.6	25292.1	25688.6	26485.8	24865.5	22800.5	22383.9	16016.9
47.5°	23321.3	23261.2	23593.7	24178.5	25109.8	26203.4	27745.6	26559.9	24689.2	24302.7	17458.9
50°	21358.5	21348.5	22013.4	23080.9	24513.0	26451.7	29047.4	28486.6	27313.0	26906.4	19463.8
52.5°	18302.1	18322.1	19630.0	21338.4	23465.5	26283.5	29884.6	30962.2	30365.3	29942.7	21200.2
55°	15392.0	15512.1	16439.5	18903.0	21859.2	25658.6	30173.0	32117.8	32049.7	31649.2	22165.6
57.5°	12541.9	12760.2	13653.5	15954.8	19513.8	24218.6	30014.8	32618.5	33303.5	32997.1	23439.4
60°	9453.5	9553.6	10583.1	12734.2	16503.5	21590.8	28867.2	32890.9	35018.0	34805.7	25288.1
62.5°	6014.6	6264.9	7178.2	9253.2	12850.3	17941.6	26932.4	32886.9	37163.0	37279.2	27673.5
65°	3168.5	3460.9	3945.6	5734.2	8830.6	13865.8	24022.3	32578.5	39794.8	39957.0	29538.1
67.5°	1708.4	1792.6	2048.9	2976.2	5121.3	9393.4	19746.2	31056.3	41318.9	41533.3	29798.5
70°	1249.8	1295.8	1392.0	1646.3	2577.7	5455.8	14408.6	27605.4	39354.1	39274.0	26475.8
72.5°	959.4	1031.5	1103.6	1205.7	1482.1	2912.2	8970.8	21616.8	31400.8	30872.0	19790.2
75°	757.1	769.1	871.2	963.4	1111.6	1658.4	3983.7	12590.0	19165.3	17913.6	10262.6
77.5°	604.9	612.9	673.0	753.1	893.3	1089.6	1233.8	4953.1	6118.7	5459.8	2227.2
80°	358.5	378.5	500.7	580.8	741.1	687.0	450.6	1075.5	955.4	865.2	374.5
82.5°	200.3	216.3	282.4	458.7	516.7	328.5	224.3	290.4	224.3	218.3	106.2
85°	0.0	10.0	182.3	284.4	210.3	72.1	94.1	96.1	66.1	62.1	42.1
87.5°	0.0	0.0	56.1	54.1	8.0	12.0	22.0	32.0	26.0	26.0	22.0
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°	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5	3877.5
2.5°	3953.6	3845.5	3641.2	3440.9	3272.7	3134.5	3010.3	2960.2	2920.2	2914.2	2882.1
5°	4129.9	3911.6	3521.0	3200.6	2986.3	2834.0	2703.9	2623.7	2561.7	2537.6	2515.6
7.5°	4396.3	4065.8	3505.0	3136.5	2880.1	2623.7	2383.4	2123.0	1960.8	1898.7	1862.7
10°	4720.7	4270.1	3565.1	3118.4	2669.8	2129.0	1730.5	1400.0	1265.8	1221.7	1209.7
12.5°	5099.3	4524.5	3669.2	3006.3	2221.2	1512.2	1193.7	1081.5	1051.5	1037.5	1037.5
15°	5533.9	4802.9	3743.3	2681.8	1642.3	1143.6	1033.5	981.4	949.4	931.3	933.3
17.5°	5978.5	5075.2	3707.3	2211.2	1211.7	1017.5	935.3	879.3	835.2	817.2	813.2
20°	6427.2	5327.6	3507.0	1646.3	1025.5	923.3	831.2	769.1	725.0	707.0	703.0
22.5°	6891.8	5541.9	3154.5	1207.7	921.3	819.2	729.0	667.0	624.9	608.9	600.9
25°	7344.5	5716.2	2661.8	977.4	823.2	721.0	634.9	576.8	538.8	522.7	520.7
27.5°	7767.1	5826.3	2091.0	863.2	737.1	632.9	554.8	502.7	470.7	458.7	456.7
30°	8147.6	5836.3	1546.2	779.1	660.9	556.8	484.7	438.6	410.6	398.6	394.6
32.5°	8532.2	5752.2	1125.6	703.0	590.8	490.7	420.6	384.5	364.5	354.5	354.5
35°	8894.7	5557.9	877.3	636.9	522.7	426.6	370.5	344.5	332.5	322.5	322.5
37.5°	9249.2	5279.5	745.1	578.8	458.7	372.5	326.5	310.4	300.4	290.4	290.4
40°	9609.7	4929.0	677.0	524.7	406.6	330.5	290.4	276.4	266.4	258.4	256.4
42.5°	10052.3	4524.5	632.9	474.7	360.5	292.4	256.4	240.3	232.3	224.3	220.3
45°	10565.1	4176.0	596.9	424.6	322.5	260.4	222.3	206.3	194.3	184.3	182.3
47.5°	11304.1	3923.6	548.8	370.5	286.4	226.3	192.3	174.2	156.2	146.2	144.2
50°	12247.5	3715.3	486.7	322.5	250.4	192.3	160.2	138.2	122.2	112.2	112.2
52.5°	12716.1	3442.9	430.6	280.4	210.3	162.2	130.2	104.1	96.1	86.1	86.1
55°	12904.4	3234.6	374.5	238.3	174.2	134.2	102.1	80.1	74.1	68.1	66.1
57.5°	13433.2	3174.5	326.5	202.3	144.2	106.2	78.1	60.1	56.1	48.1	48.1
60°	14284.4	3204.6	282.4	172.2	116.2	82.1	58.1	46.1	42.1	34.0	34.0
62.5°	15203.7	3166.5	238.3	148.2	90.1	60.1	40.1	34.0	34.0	20.0	18.0
65°	15379.9	2820.0	204.3	122.2	70.1	44.1	26.0	22.0	30.0	4.0	0.0
67.5°	14274.4	2187.1	176.3	94.1	52.1	34.0	20.0	10.0	26.0	0.0	0.0
70°	11414.3	1390.0	142.2	68.1	40.1	28.0	16.0	4.0	20.0	0.0	0.0
72.5°	8071.5	807.2	112.2	48.1	34.0	22.0	12.0	0.0	12.0	0.0	0.0
75°	4081.8	430.6	70.1	36.1	26.0	16.0	8.0	0.0	2.0	0.0	0.0
77.5°	883.3	200.3	44.1	26.0	18.0	10.0	4.0	0.0	0.0	0.0	0.0
80°	192.3	88.1	28.0	16.0	10.0	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.1	46.1	14.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.1	24.0	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)