

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: P324761

Luminaire Tested: **GAN-SA7B-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30133 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

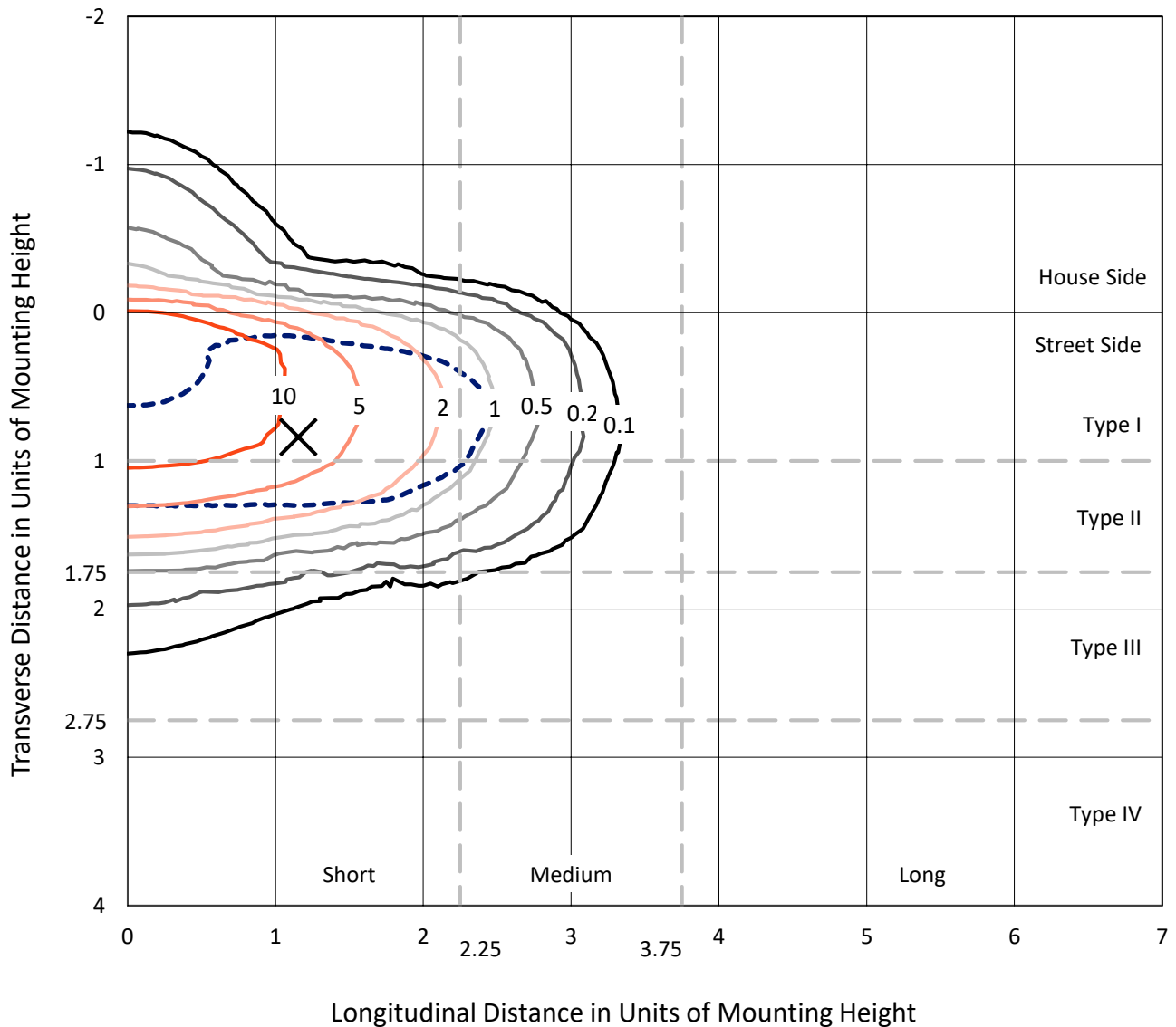
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

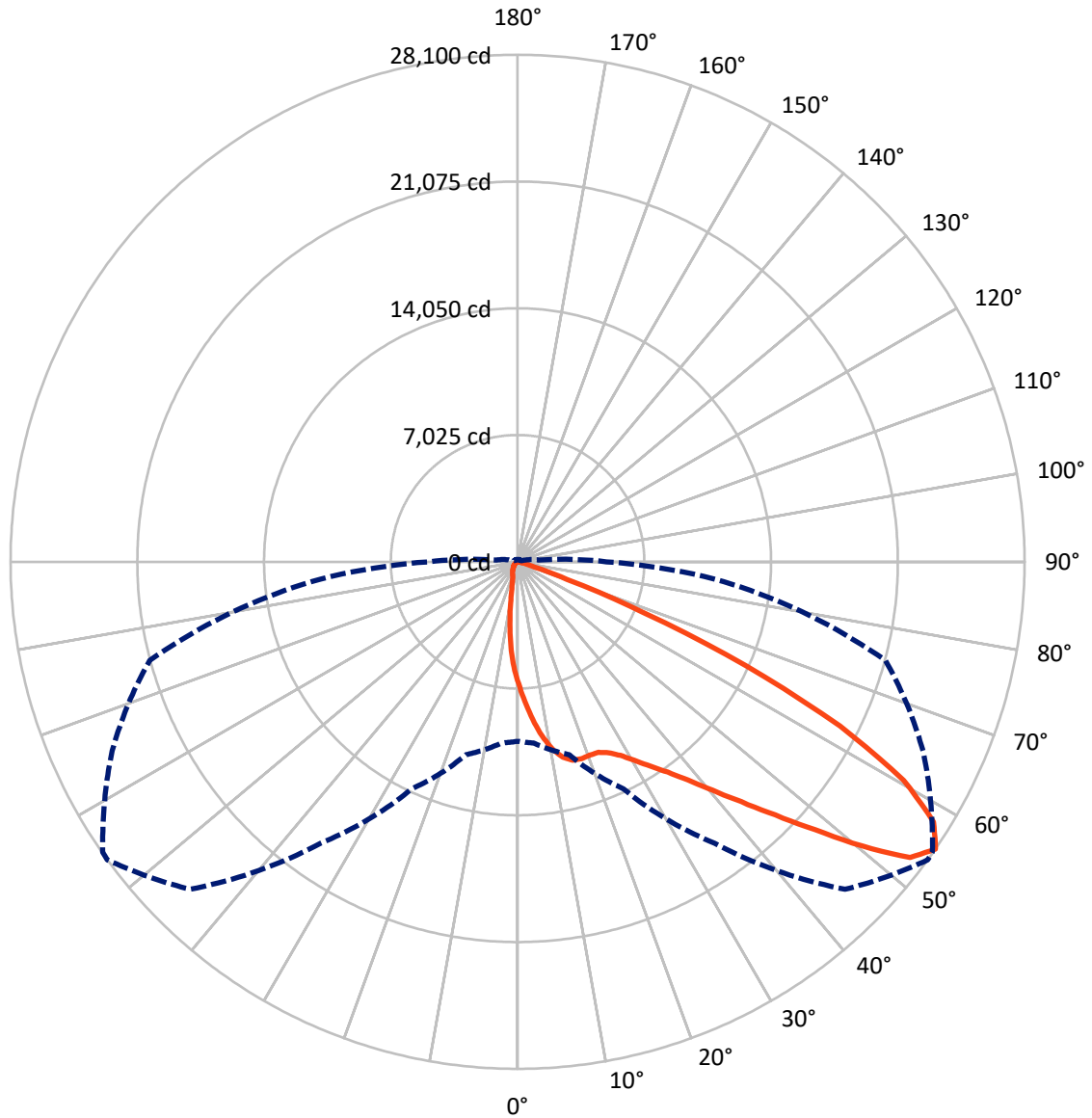
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1503.4	0.0	1503.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	28629.6	0.0	28629.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	30133.0	0.0	30133.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.5	2.1
10°-20°	1704.4	5.7
20°-30°	2910.0	9.7
30°-40°	4670.0	15.5
40°-50°	7462.7	24.8
50°-60°	7996.5	26.5
60°-70°	4105.6	13.6
70°-80°	621.9	2.1
80°-90°	40.5	0.1
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°	30133.0	100.0
0°-180°	30133.0	100.0

**Coefficient of Utilization**

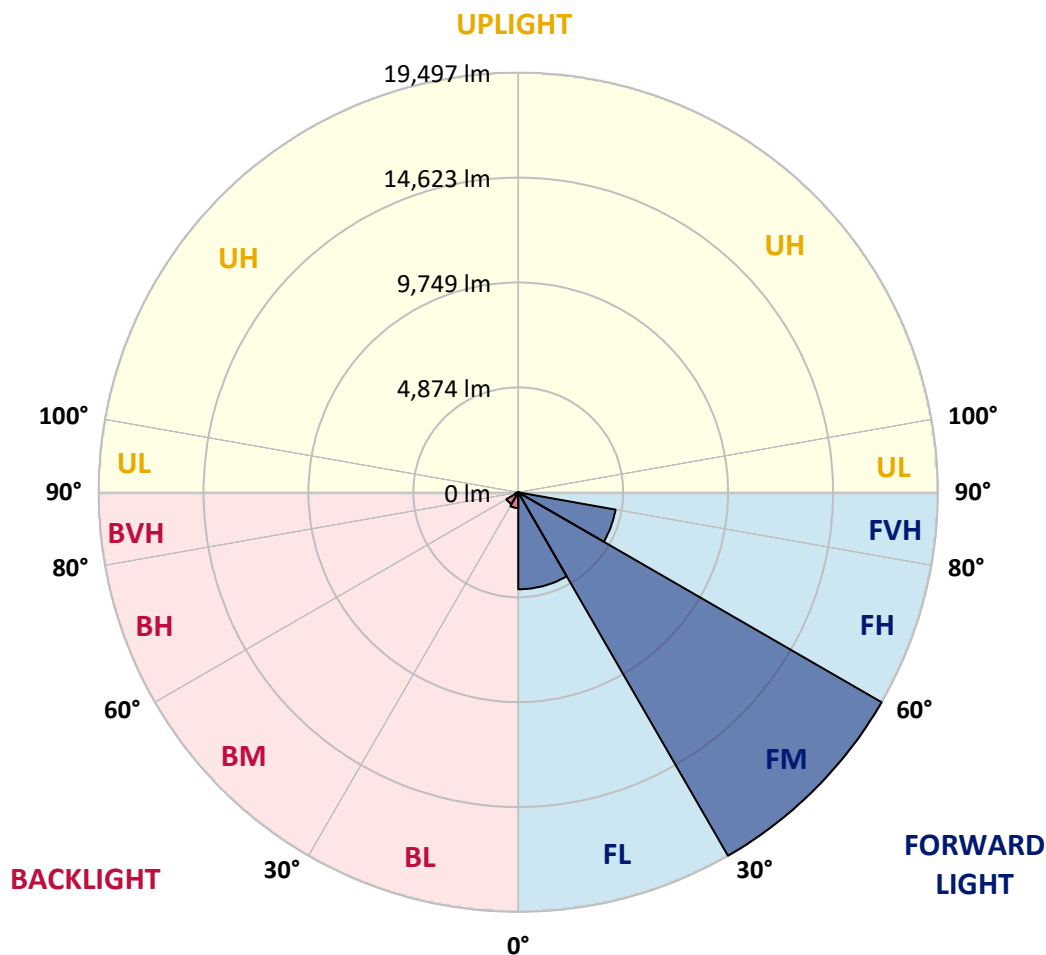


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4504.4	14.9			
FM (30°-60°)	19497.4	64.7			
FH (60°-80°)	4589.0	15.2			G2/5000
FVH (80°-90°)	38.9	0.1			G1/100
BL (0°-30°)	731.5	2.4	B2/1000		
BM (30°-60°)	631.8	2.1	B1/1000		
BH (60°-80°)	138.5	0.5	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6
2.5°	8468.9	8342.7	8346.6	8289.3	8079.8	7915.9	7745.4	7705.0	7439.6	7161.1	6893.0
5°	9932.9	9840.5	9818.4	9707.8	9416.3	9107.9	8777.3	8700.5	8181.3	7611.3	7050.5
7.5°	10685.0	10686.3	10668.1	10627.8	10445.6	10146.3	9742.9	9662.2	8955.6	8100.6	7214.5
10°	10466.4	10515.9	10617.4	10751.4	10890.6	10852.9	10549.7	10476.8	9709.1	8618.6	7396.6
12.5°	9956.3	9962.8	10076.0	10295.9	10696.8	11108.0	11113.2	11088.4	10428.7	9159.9	7597.0
15°	9702.6	9727.3	9768.9	9910.8	10290.7	10949.2	11420.3	11455.4	11088.4	9735.1	7810.4
17.5°	9869.1	9904.3	9869.1	9886.0	10106.0	10698.1	11473.6	11563.4	11664.9	10303.8	8012.2
20°	10320.7	10353.2	10290.7	10221.8	10264.7	10625.2	11435.9	11556.9	12116.5	10808.7	8181.3
22.5°	10929.7	10942.7	10847.7	10734.5	10703.3	10872.4	11467.1	11592.1	12478.2	11265.4	8288.0
25°	11599.9	11611.6	11493.2	11363.0	11288.8	11357.8	11723.5	11817.2	12797.1	11701.4	8349.2
27.5°	12329.9	12340.3	12192.0	12031.9	11946.0	11948.6	12146.4	12246.6	13136.7	12198.5	8398.6
30°	13101.6	13096.4	12959.7	12737.2	12627.9	12625.3	12755.4	12856.9	13628.6	12836.1	8466.3
32.5°	13968.2	13957.8	13763.9	13488.1	13364.4	13382.7	13498.5	13557.0	14238.9	13515.4	8587.3
35°	15109.5	15079.6	14786.8	14444.5	14216.8	14210.3	14307.9	14354.7	15017.1	14337.8	8789.0
37.5°	16590.4	16563.0	16166.1	15669.0	15348.9	15229.2	15345.0	15404.9	16127.1	15393.2	9113.1
40°	18050.4	18023.1	17787.6	17332.1	16838.9	16551.3	16642.4	16706.2	17513.0	16673.7	9521.7
42.5°	19057.7	19081.1	19163.1	19200.8	18738.8	18135.0	18176.7	18243.0	18969.2	18042.6	9988.8
45°	19323.1	19373.9	19837.1	20746.8	20919.8	20448.8	20012.8	20049.3	20448.8	19411.6	10456.0
47.5°	18525.4	18619.1	19513.1	21204.8	22670.1	23003.2	22178.2	22130.0	21868.5	20519.0	10787.8
50°	16712.7	16798.6	17956.7	20459.2	23201.0	25441.9	24773.0	24631.2	23113.8	21181.4	10905.0
52.5°	14089.3	14193.4	15134.2	18111.6	22200.3	26529.8	27229.9	27111.4	24027.3	21233.4	10924.5
55°	9949.8	10076.0	11071.5	13881.1	19029.0	25664.4	28100.4	28065.3	24786.0	21095.5	10966.1
57.5°	5591.7	5682.8	6756.4	8898.3	13937.0	22353.9	27190.8	27423.8	25244.1	20856.1	11028.6
60°	2482.9	2507.6	3063.3	4429.7	8159.2	17083.6	24586.9	24979.9	24851.1	20535.9	11134.0
62.5°	1376.8	1356.0	1356.0	1841.4	3546.1	10575.7	20049.3	20698.6	23173.7	20157.3	11139.2
65°	1078.8	1059.3	1003.3	1011.1	1350.8	4693.8	13883.7	15037.9	19988.1	19047.2	10764.4
67.5°	914.8	897.9	841.9	819.8	839.3	1548.6	7628.3	8826.8	15166.7	16162.2	9323.9
70°	773.0	761.3	732.6	705.3	655.9	765.2	2918.8	3733.5	9346.0	10751.4	6364.7
72.5°	622.0	616.8	627.2	603.8	543.9	510.1	998.1	1208.9	4198.0	4797.9	2622.1
75°	536.1	533.5	538.7	515.3	447.6	355.3	507.5	554.4	1184.2	1173.8	530.9
77.5°	348.8	352.7	446.3	435.9	385.2	236.8	262.9	283.7	359.2	269.4	161.4
80°	222.5	219.9	226.4	361.8	346.1	180.9	131.4	137.9	173.1	132.7	78.1
82.5°	135.3	132.7	148.3	169.2	174.4	126.2	80.7	82.0	108.0	85.9	41.6
85°	11.7	15.6	89.8	83.3	59.9	39.0	39.0	41.6	57.3	50.8	23.4
87.5°	0.0	0.0	15.6	23.4	13.0	14.3	14.3	15.6	22.1	22.1	11.7
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°	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6	6748.6
2.5°	6753.8	6618.5	6345.2	6082.3	5859.8	5645.1	5400.4	5158.4	5045.2	4999.6	4952.8
5°	6765.5	6487.0	5923.6	5356.2	4768.0	4238.4	3786.8	3323.5	3091.9	2990.4	2943.6
7.5°	6781.1	6356.9	5446.0	4493.4	3546.1	2827.7	2200.5	1797.1	1622.7	1595.4	1527.7
10°	6783.7	6199.4	4891.6	3540.9	2377.5	1704.7	1311.7	1103.5	1026.7	1013.7	991.6
12.5°	6788.9	6013.3	4276.1	2622.1	1585.0	1139.9	948.7	879.7	858.9	857.6	857.6
15°	6804.5	5818.1	3637.2	1889.5	1138.6	903.1	832.8	805.5	797.7	801.6	800.3
17.5°	6804.5	5587.8	3009.9	1408.0	920.0	812.0	773.0	754.8	752.2	756.1	757.4
20°	6755.1	5308.0	2434.7	1095.7	815.9	753.5	718.3	701.4	694.9	697.5	698.8
22.5°	6636.7	4964.5	1966.3	907.0	747.0	700.1	662.4	636.3	625.9	627.2	627.2
25°	6451.9	4557.2	1538.1	784.7	691.0	642.8	598.6	568.7	562.2	560.9	563.5
27.5°	6215.0	4106.9	1224.5	691.0	624.6	579.1	534.8	510.1	504.9	506.2	507.5
30°	5982.1	3639.8	965.6	611.6	550.5	507.5	473.7	462.0	462.0	465.9	467.2
32.5°	5768.7	3190.8	763.9	542.6	484.1	445.0	425.5	424.2	430.7	433.3	434.6
35°	5585.2	2775.7	632.4	489.3	432.0	398.2	391.7	396.9	404.7	409.9	411.2
37.5°	5455.1	2404.8	553.1	445.0	391.7	364.4	363.1	373.5	383.9	395.6	398.2
40°	5400.4	2091.2	498.4	406.0	359.2	338.3	334.4	348.8	368.3	385.2	387.8
42.5°	5354.9	1834.8	451.6	368.3	333.1	303.2	301.9	320.1	343.5	360.5	364.4
45°	5315.8	1629.2	408.6	327.9	299.3	260.3	264.2	287.6	305.8	324.0	327.9
47.5°	5235.2	1460.1	361.8	285.0	247.2	222.5	230.3	251.2	265.5	292.8	296.7
50°	5090.7	1322.1	313.6	232.9	201.7	192.6	204.3	218.6	236.8	260.3	262.9
52.5°	4993.1	1218.0	272.0	195.2	166.6	169.2	180.9	186.1	196.5	205.6	203.0
55°	4937.2	1160.8	238.1	169.2	141.8	149.7	152.3	145.7	140.5	131.4	127.5
57.5°	4930.7	1108.7	212.1	147.0	124.9	128.8	119.7	97.6	79.4	69.0	66.4
60°	4920.2	1045.0	191.3	123.6	110.6	105.4	85.9	53.4	37.7	35.1	35.1
62.5°	4807.0	946.1	175.7	104.1	93.7	79.4	49.4	24.7	20.8	22.1	22.1
65°	4446.6	808.1	160.1	84.6	74.2	57.3	24.7	14.3	7.8	9.1	9.1
67.5°	3780.3	644.1	143.1	65.1	56.0	36.4	14.3	6.5	0.0	0.0	0.0
70°	2531.0	399.5	121.0	45.5	36.4	22.1	10.4	1.3	0.0	0.0	0.0
72.5°	970.8	216.0	97.6	27.3	23.4	15.6	6.5	0.0	0.0	0.0	0.0
75°	218.6	141.8	67.7	19.5	16.9	10.4	2.6	0.0	0.0	0.0	0.0
77.5°	83.3	102.8	39.0	13.0	11.7	6.5	0.0	0.0	0.0	0.0	0.0
80°	40.3	61.2	18.2	7.8	6.5	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.8	23.4	7.8	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	11.7	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.9	1.3	1.3	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)