

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: P191116

Luminaire Tested: **GAN-AF-08-LED-U-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL3-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27468.3 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

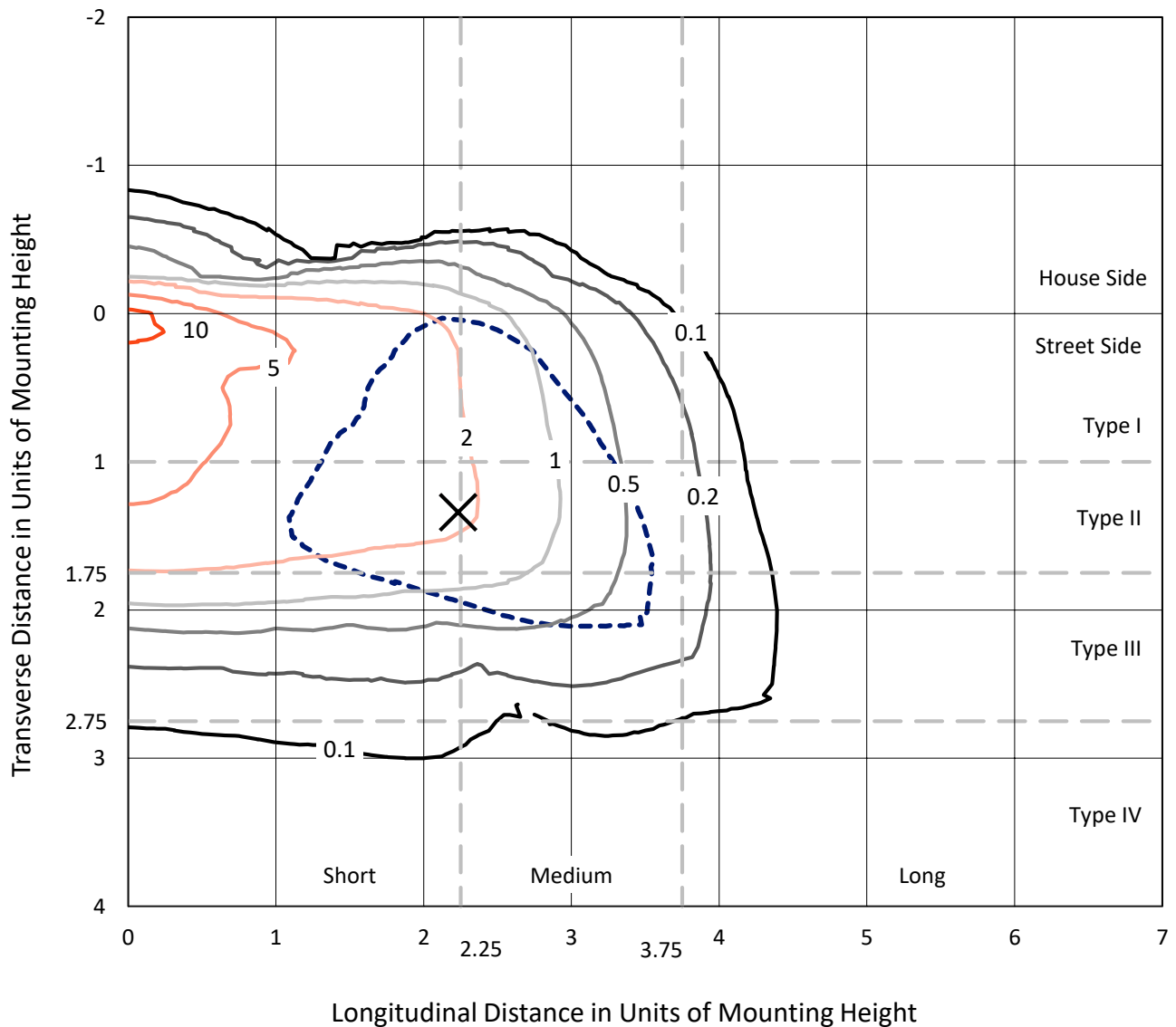
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

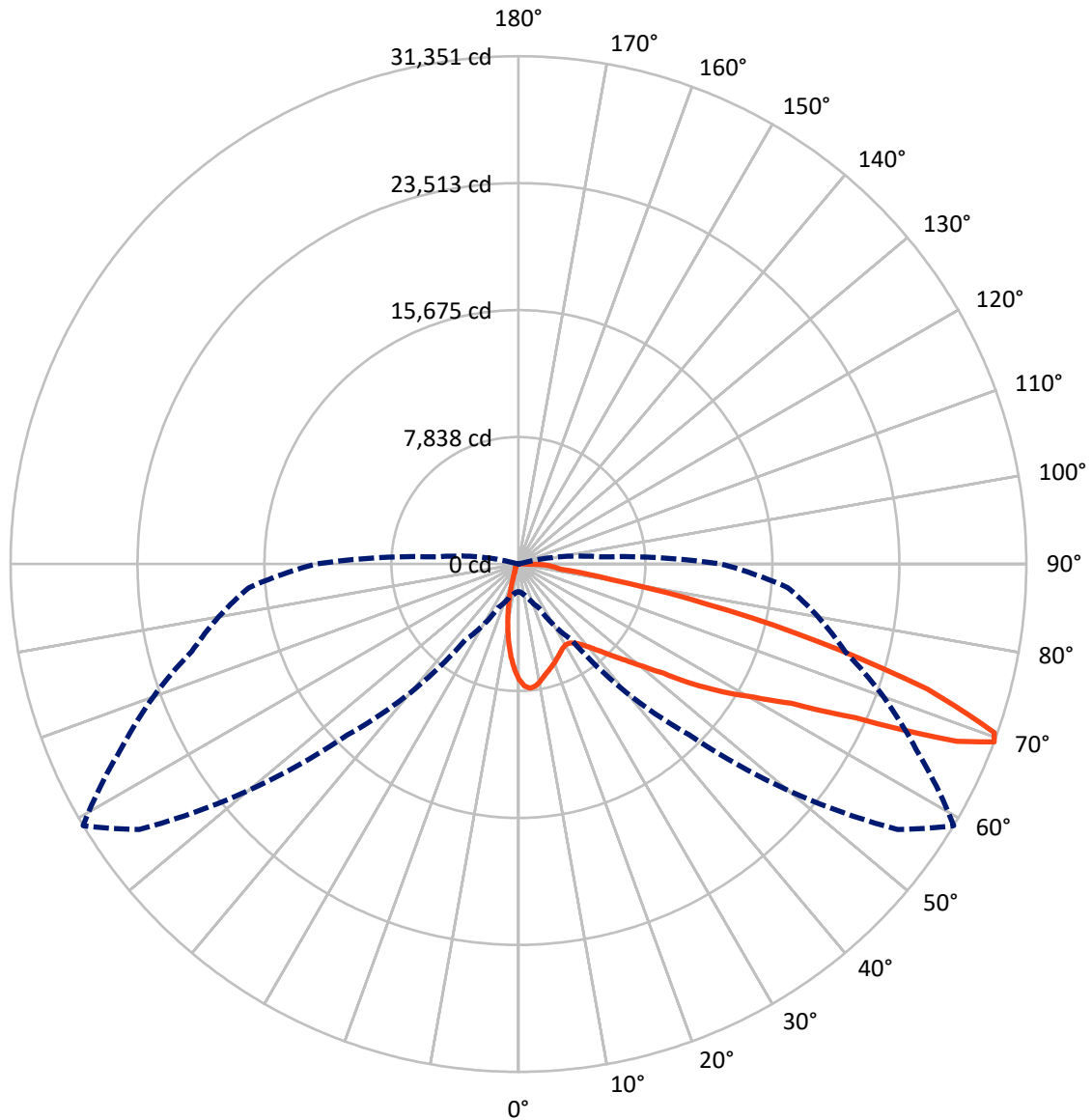
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2236.9	0.0	2236.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	25231.3	0.0	25231.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	27468.3	0.0	27468.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.3	2.1
10°-20°	1199.1	4.4
20°-30°	1613.6	5.9
30°-40°	2342.8	8.5
40°-50°	3901.0	14.2
50°-60°	6085.5	22.2
60°-70°	7530.3	27.4
70°-80°	3816.3	13.9
80°-90°	399.3	1.5
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°	27468.3	100.0
0°-180°	27468.3	100.0



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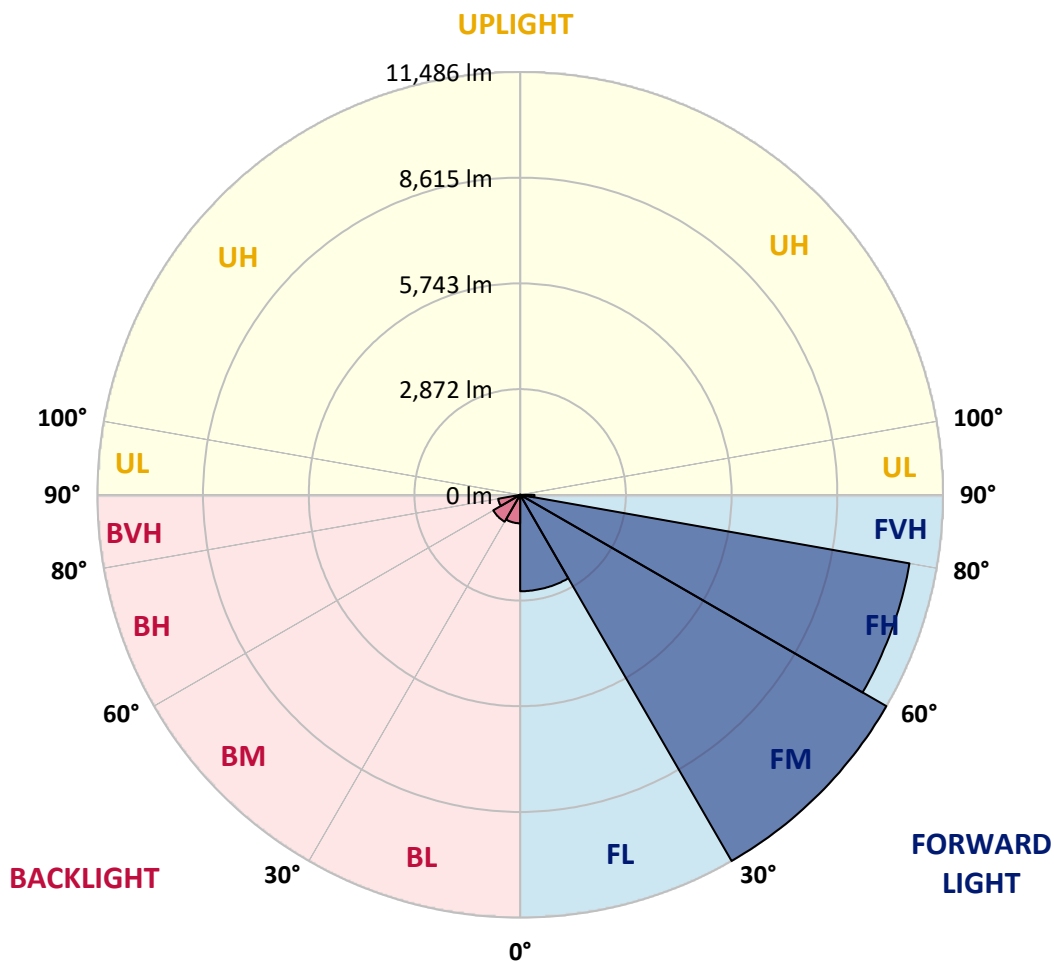
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2618.8	9.5			
FM	(30°-60°)	11486.4	41.8			
FH	(60°-80°)	10739.1	39.1			G4/12000
FVH	(80°-90°)	387.0	1.4			G3/500
BL	(0°-30°)	774.3	2.8	B2/1000		
BM	(30°-60°)	842.9	3.1	B1/1000		
BH	(60°-80°)	607.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6
2.5°	7836.1	7833.0	7798.9	7783.3	7755.4	7696.4	7604.7	7556.5	7478.9	7343.8	7162.1
5°	7764.7	7801.9	7822.2	7823.7	7843.9	7822.2	7739.9	7699.4	7592.2	7374.9	7048.6
7.5°	7280.1	7294.0	7351.5	7401.3	7497.5	7589.2	7618.7	7601.6	7537.9	7304.9	6871.6
10°	6761.3	6775.3	6843.6	6908.9	7039.3	7180.7	7329.7	7360.8	7387.2	7205.6	6700.7
12.5°	6314.0	6328.0	6397.8	6483.3	6635.5	6809.5	7040.9	7092.1	7208.6	7110.7	6564.1
15°	5928.7	5935.0	6003.3	6109.0	6290.6	6514.4	6776.8	6859.2	7037.8	7044.0	6444.4
17.5°	5601.1	5616.5	5658.5	5759.4	5958.3	6234.8	6540.7	6658.8	6868.5	6988.1	6328.0
20°	5400.7	5416.2	5414.6	5470.5	5649.1	5944.3	6304.7	6446.0	6700.7	6930.6	6223.8
22.5°	5361.8	5361.8	5321.4	5313.7	5419.3	5666.2	6059.2	6231.6	6550.1	6905.7	6150.9
25°	5500.1	5493.9	5392.9	5310.5	5315.3	5462.8	5821.6	6026.6	6422.7	6922.8	6112.0
27.5°	5792.0	5784.3	5656.9	5500.1	5374.3	5372.7	5641.4	5861.9	6321.7	7003.6	6127.6
30°	6195.9	6192.8	6054.5	5857.3	5629.0	5419.3	5579.3	5779.7	6256.5	7149.6	6163.3
32.5°	6637.0	6632.4	6528.3	6320.2	6031.3	5629.0	5644.5	5812.3	6275.1	7343.8	6250.2
35°	7104.6	7096.8	7051.7	6870.0	6551.6	6015.8	5858.8	5989.4	6393.1	7634.2	6421.2
37.5°	7611.0	7618.7	7651.3	7477.4	7143.4	6557.8	6217.7	6306.2	6630.9	8028.7	6699.2
40°	8358.0	8356.5	8367.3	8139.0	7817.5	7221.1	6719.4	6747.3	7028.5	8552.2	7121.7
42.5°	9714.0	9619.3	9332.0	8865.9	8542.9	7979.0	7351.5	7322.0	7514.6	9199.9	7713.5
45°	11536.0	11334.1	10588.5	9695.4	9282.3	8833.4	8129.7	8035.0	8157.6	9978.1	8443.4
47.5°	13103.2	12893.6	11838.9	10559.0	10066.7	9644.2	9041.5	8870.6	8911.0	10849.4	9369.2
50°	13636.0	13533.4	12612.4	11310.8	10826.2	10664.6	10099.2	9891.1	9833.6	11857.5	10442.5
52.5°	13451.2	13443.4	12829.8	11798.5	11522.0	11720.9	11430.4	11189.6	10978.4	12920.0	11534.5
55°	13154.4	13193.3	12918.3	12225.6	12216.3	12685.4	13250.8	13050.4	12438.5	14074.0	12475.7
57.5°	12335.9	12502.1	12868.7	13033.3	13415.4	13895.4	14766.7	14884.8	14161.0	14957.8	13257.0
60°	10009.2	10374.2	11573.3	13149.8	14960.9	16156.9	16596.5	16697.4	15574.4	15692.5	14311.7
62.5°	7104.6	7477.4	8998.0	11664.9	14984.2	19128.3	19322.4	18926.3	17130.8	16781.3	16130.5
65°	3771.3	4058.7	5301.2	8420.2	12991.4	19817.9	24089.4	22908.9	19877.0	18923.3	18480.5
67.5°	1929.2	2016.1	2510.0	4120.8	8931.2	17602.9	28362.3	29193.4	24609.7	21048.1	18367.2
69°	1707.0	1758.2	2086.0	2979.1	5719.1	14909.6	28570.5	31350.8	27087.1	20871.1	16691.2
70°	1652.7	1697.7	1995.9	2696.4	4470.3	12503.6	27773.6	31161.3	27720.8	20196.9	15439.3
72.5°	1402.6	1441.4	1777.0	2382.7	3633.0	6206.8	22561.0	26405.2	24875.3	16824.8	11175.6
75°	938.1	1065.5	1705.5	2233.6	3379.8	3525.9	14873.9	19081.7	17725.7	11348.0	5821.6
77.5°	225.3	242.3	481.5	1777.0	3090.9	3103.4	7649.7	11862.1	9675.2	4044.6	1376.2
80°	121.1	116.5	135.1	352.6	2878.2	2912.3	3443.6	5757.9	3454.4	671.0	453.6
82.5°	85.4	80.8	87.0	147.5	905.5	2652.9	2491.4	2606.4	1432.1	257.9	203.5
85°	31.1	29.5	48.2	133.6	284.3	1525.3	2559.7	2149.7	1160.2	118.0	149.1
87.5°	10.8	9.3	18.6	73.0	87.0	649.3	1579.6	1624.7	456.6	71.4	69.9
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°	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6	7149.6
2.5°	7085.9	6989.6	6812.5	6630.9	6463.1	6261.2	6160.2	6060.8	6018.8	6003.3	5930.4
5°	6880.9	6717.8	6341.9	5964.5	5616.5	5246.9	5003.0	4807.4	4692.4	4636.4	4547.9
7.5°	6618.4	6351.2	5781.2	5198.7	4656.7	4122.3	3726.2	3421.8	3212.2	3111.2	3019.5
10°	6363.7	6008.0	5197.2	4403.5	3667.2	2959.0	2412.2	2016.1	1763.0	1646.4	1571.9
12.5°	6135.4	5674.0	4633.4	3628.4	2704.2	1874.8	1318.7	1003.4	846.5	792.2	765.8
15°	5931.9	5366.5	4100.6	2892.2	1831.3	1071.7	720.7	613.6	588.7	588.7	585.5
17.5°	5739.3	5065.1	3586.5	2201.0	1149.4	655.5	548.3	534.3	534.3	540.5	540.5
20°	5554.4	4777.8	3089.4	1579.6	723.8	520.4	495.5	492.3	495.5	503.3	503.3
22.5°	5396.0	4516.8	2625.0	1084.1	537.5	469.1	456.6	452.0	453.6	458.2	461.4
25°	5277.9	4296.3	2187.0	734.7	462.9	427.2	413.2	405.4	399.2	399.2	402.3
27.5°	5203.3	4109.9	1763.0	534.3	416.2	388.3	366.5	354.1	340.1	332.4	335.5
30°	5149.0	3932.8	1365.3	436.5	372.8	344.8	316.9	296.7	276.5	267.2	270.3
32.5°	5128.9	3789.9	1020.5	385.2	334.0	302.9	268.7	242.3	220.5	212.8	214.3
35°	5183.2	3676.6	747.2	347.9	302.9	264.0	225.3	195.7	178.6	174.0	175.5
37.5°	5326.1	3615.9	559.1	316.9	275.0	231.4	187.9	160.0	149.1	149.1	150.7
40°	5596.4	3614.4	448.9	295.1	250.1	200.4	155.3	135.1	128.9	132.1	133.6
42.5°	5990.9	3696.7	391.4	275.0	228.3	170.8	128.9	115.0	113.3	116.5	118.0
45°	6529.9	3847.4	360.4	257.9	205.0	142.9	108.7	99.4	99.4	104.0	105.7
47.5°	7190.0	4068.0	334.0	240.8	181.8	119.6	93.2	87.0	88.5	93.2	94.7
50°	7985.3	4346.0	307.5	222.1	164.7	99.4	80.8	76.1	77.6	83.9	85.4
52.5°	8890.8	4720.3	285.8	205.0	142.9	82.3	68.3	65.3	68.3	74.6	76.1
55°	9667.4	5055.8	259.4	191.1	115.0	68.3	56.0	56.0	59.0	66.8	68.3
57.5°	10414.6	5406.9	236.1	164.7	90.1	54.3	46.6	48.2	52.8	60.6	62.1
60°	11511.2	6001.8	208.2	138.2	68.3	43.5	38.9	40.4	46.6	54.3	56.0
62.5°	13373.4	6907.3	180.1	115.0	52.8	34.2	31.1	34.2	41.9	51.2	52.8
65°	15054.2	7275.4	147.5	96.3	40.4	26.4	26.4	31.1	40.4	49.7	51.2
67.5°	14117.5	6124.5	115.0	76.1	31.1	20.2	21.8	29.5	38.9	49.7	51.2
69°	12485.0	5007.7	97.9	60.6	26.4	18.6	20.2	29.5	38.9	48.2	49.7
70°	11212.9	4228.0	87.0	51.2	23.3	18.6	20.2	27.9	38.9	48.2	49.7
72.5°	7510.0	2283.3	69.9	37.2	21.8	17.1	17.1	27.9	37.2	46.6	48.2
75°	3227.6	630.6	56.0	26.4	18.6	15.5	15.5	26.4	35.7	45.0	48.2
77.5°	590.2	160.0	45.0	23.3	18.6	15.5	14.0	24.9	34.2	43.5	45.0
80°	234.6	79.2	35.7	20.2	17.1	14.0	12.4	23.3	32.6	41.9	43.5
82.5°	141.4	45.0	29.5	18.6	17.1	12.4	10.8	20.2	31.1	40.4	41.9
85°	115.0	31.1	23.3	18.6	15.5	12.4	9.3	18.6	27.9	38.9	40.4
87.5°	56.0	21.8	21.8	17.1	15.5	12.4	9.3	17.1	26.4	37.2	38.9
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)