

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: P191063

Luminaire Tested: **GAN-AF-05-LED-U-SL2-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27652.4 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

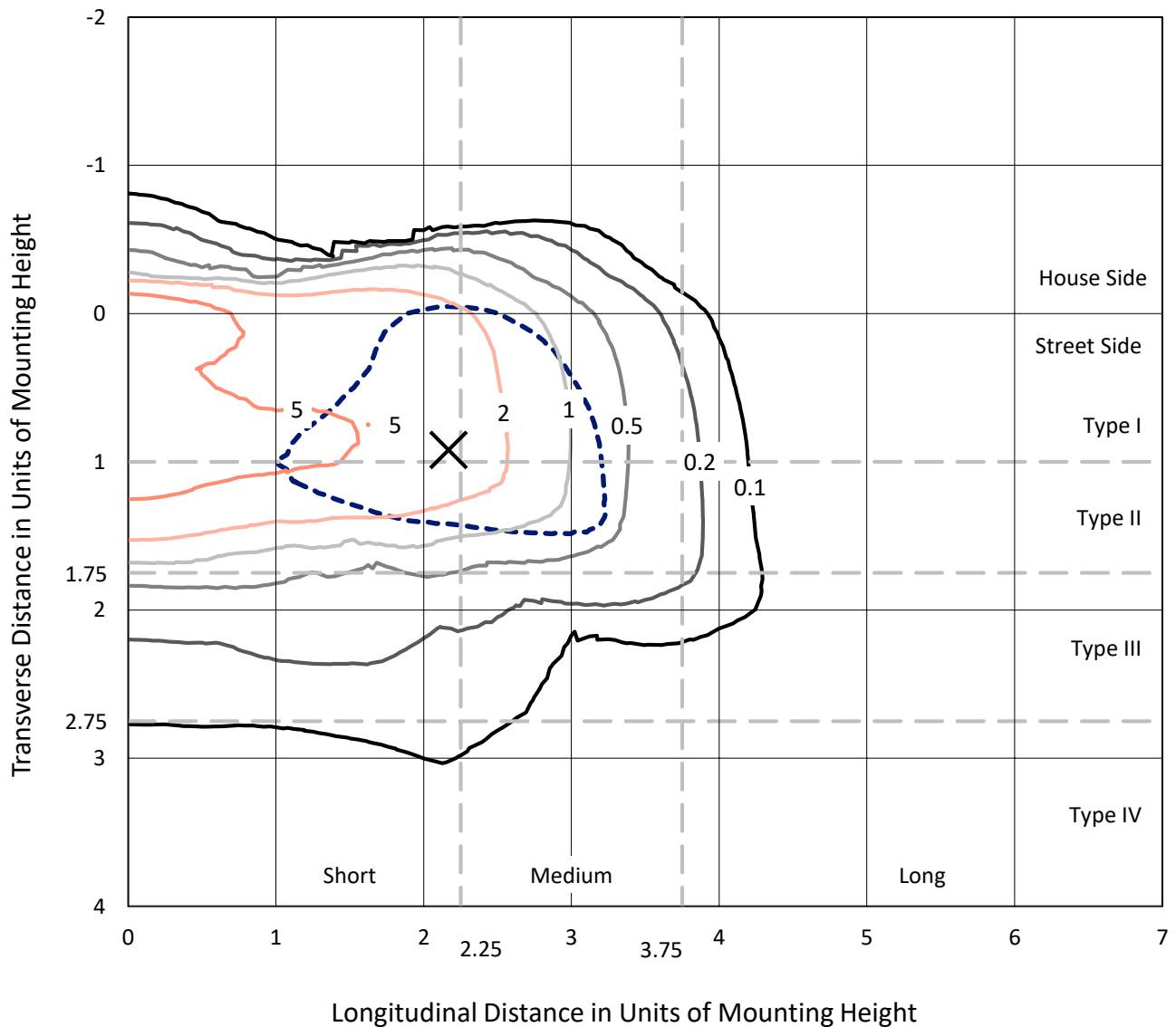
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

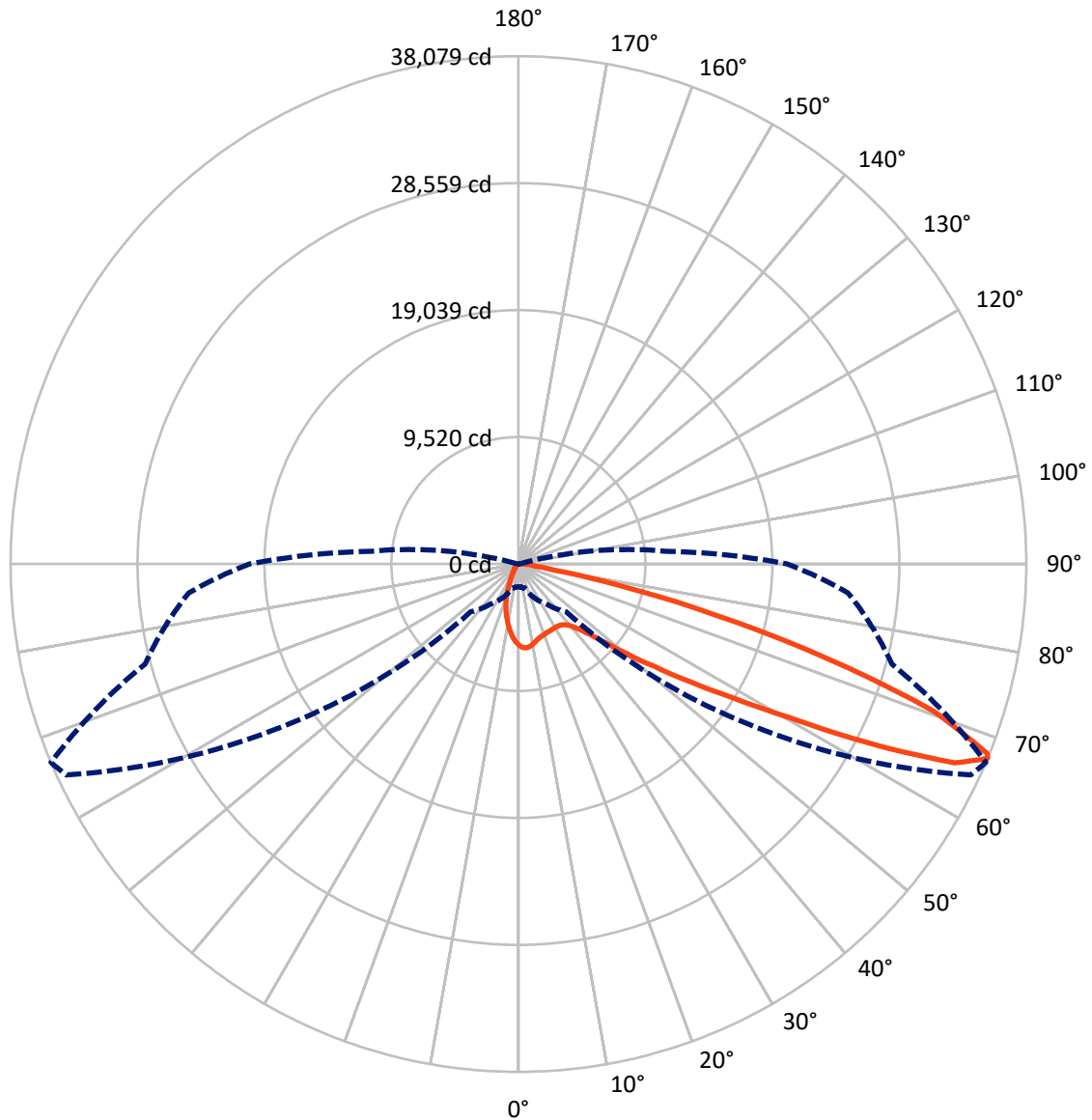
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2871.2	0.0	2871.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24781.2	0.0	24781.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	27652.4	0.0	27652.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.2	1.8
10°-20°	1056.1	3.8
20°-30°	1535.5	5.6
30°-40°	2395.5	8.7
40°-50°	4243.5	15.3
50°-60°	6714.9	24.3
60°-70°	7691.0	27.8
70°-80°	3190.2	11.5
80°-90°	329.5	1.2
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°	27652.4	100.0
0°-180°	27652.4	100.0

Coefficient of Utilization



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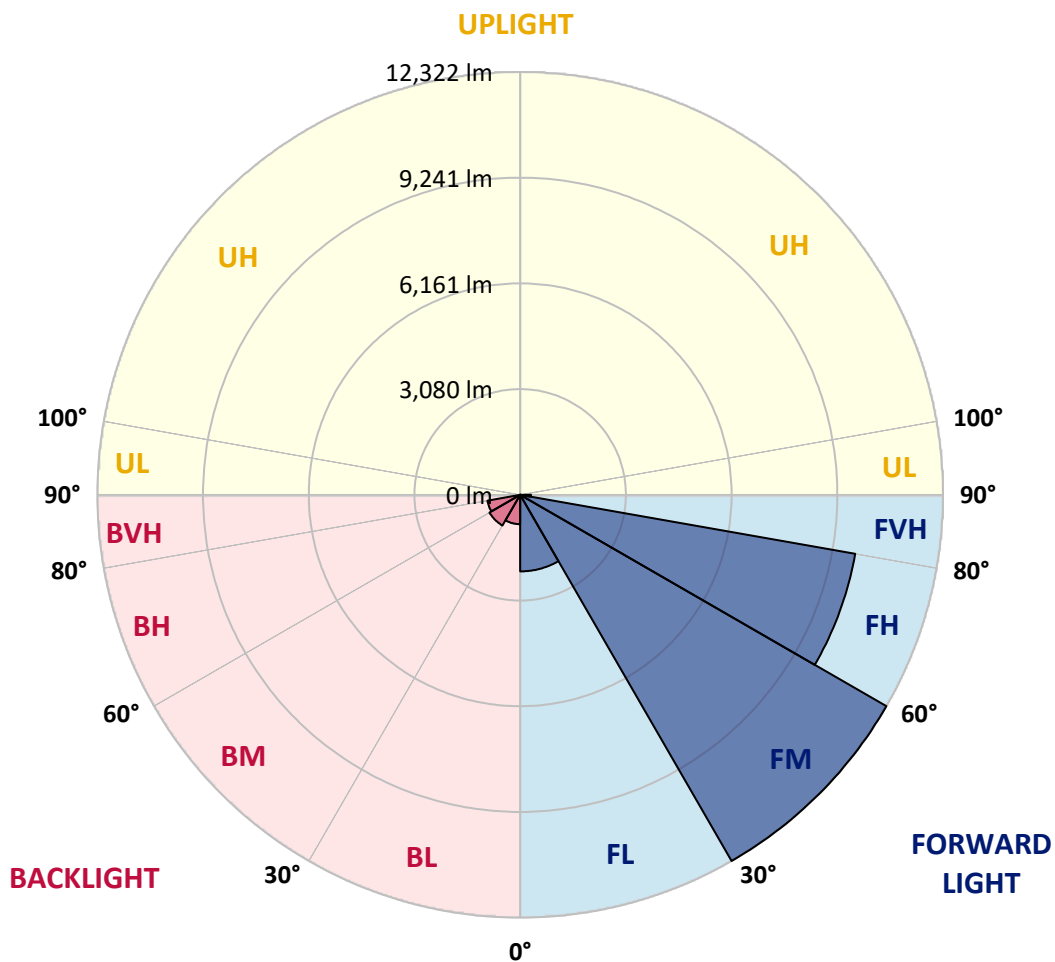
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2231.1	8.1			
FM	(30°-60°)	12322.0	44.6			
FH	(60°-80°)	9913.5	35.9			G4/12000
FVH	(80°-90°)	314.7	1.1			G3/500
BL	(0°-30°)	856.8	3.1	B2/1000		
BM	(30°-60°)	1031.9	3.7	B2/2500		
BH	(60°-80°)	967.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	14.8	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4
2.5°	6304.9	6317.7	6316.1	6325.8	6348.3	6350.0	6327.4	6283.9	6274.2	6217.7	6119.4
5°	5814.6	5851.6	5874.2	5966.2	6069.4	6193.6	6287.1	6320.9	6316.1	6275.8	6127.4
7.5°	5254.8	5291.9	5317.7	5425.8	5562.9	5775.8	6019.3	6219.3	6237.1	6280.6	6120.9
10°	4882.2	4888.7	4924.2	5027.4	5170.9	5388.7	5679.0	6029.1	6082.3	6241.9	6104.9
12.5°	4575.8	4580.7	4627.4	4738.7	4892.0	5111.3	5416.1	5821.0	5903.2	6193.6	6101.6
15°	4358.1	4375.8	4417.7	4533.8	4696.8	4914.5	5227.4	5667.8	5766.2	6175.8	6130.6
17.5°	4285.4	4304.8	4317.8	4401.7	4550.0	4762.9	5083.9	5567.7	5679.0	6185.5	6187.1
20°	4361.2	4375.8	4346.7	4367.7	4459.7	4650.0	4962.8	5482.2	5614.5	6196.7	6259.6
22.5°	4643.6	4650.0	4571.0	4479.0	4462.9	4567.8	4867.7	5414.5	5556.5	6227.4	6345.2
25°	5127.4	5116.1	4987.1	4788.7	4601.6	4553.3	4811.2	5372.5	5527.4	6259.6	6433.8
27.5°	5711.2	5727.4	5550.0	5261.2	4904.8	4650.0	4803.3	5354.8	5514.5	6282.2	6511.3
30°	6421.0	6443.6	6240.3	5877.4	5366.1	4888.7	4877.4	5351.6	5506.4	6267.7	6517.7
32.5°	7145.1	7172.5	7012.9	6638.7	5982.2	5288.7	5045.2	5387.1	5522.6	6217.7	6480.6
35°	7903.2	7941.9	7835.5	7514.5	6817.8	5866.1	5340.3	5495.2	5598.4	6212.9	6443.6
37.5°	8950.0	8985.5	8785.5	8445.2	7829.1	6640.3	5814.6	5698.3	5777.4	6290.3	6453.2
40°	10512.9	10508.1	9991.9	9471.0	8940.3	7624.2	6480.6	6066.1	6106.4	6524.2	6572.6
42.5°	12216.1	12208.0	11445.2	10653.2	10174.2	8835.4	7356.4	6701.6	6674.1	6954.8	6882.2
45°	13529.0	13527.4	12904.8	12012.9	11659.7	10225.8	8488.7	7585.5	7543.5	7654.8	7453.2
47.5°	14088.7	14098.4	13785.5	13158.0	13306.4	12106.4	9916.1	8866.1	8803.2	8758.1	8451.6
50°	13653.2	13672.6	13698.3	13575.8	14514.4	14633.8	11830.6	10670.9	10640.3	10438.7	9959.7
52.5°	12230.6	12329.0	12632.2	13020.9	14933.9	17059.6	14832.3	12912.9	12748.3	12533.8	12006.5
55°	9833.8	9942.0	10517.7	11461.2	14309.6	18653.2	19038.6	15803.2	15529.0	14888.6	14127.4
57.5°	6508.0	6675.8	7511.3	8711.2	12496.8	18909.7	23235.4	19814.5	18859.6	17106.4	16248.3
60°	3585.4	3746.8	4653.2	5740.3	9025.8	17641.9	26058.0	25037.0	23350.0	19585.4	18824.1
62.5°	2208.0	2295.2	2964.5	3975.8	5412.9	13924.2	26641.9	31600.0	29646.8	22777.4	21935.4
65°	1758.0	1795.2	2122.6	3250.0	3880.7	8282.2	24756.4	36603.1	35951.5	26641.9	24720.9
67°	1706.5	1721.0	1875.8	2790.3	3658.1	5077.4	20740.3	37417.7	38078.9	28980.6	24808.0
67.5°	1717.7	1733.9	1880.6	2662.9	3651.6	4666.1	19356.4	37096.7	37932.2	29166.1	24422.5
70°	1656.5	1706.5	2153.2	2661.3	3472.6	3877.4	11591.9	32141.8	33011.2	27099.9	20722.5
72.5°	587.1	590.3	930.7	2153.2	3775.8	3919.3	5821.0	23562.9	24206.4	20730.6	14940.3
75°	348.4	296.8	309.6	613.0	3608.0	3806.4	3358.0	15056.4	15296.8	11879.0	7566.2
77.5°	240.3	209.7	216.1	271.0	1374.2	3753.2	2667.8	7851.6	7595.1	4166.2	1611.2
80°	137.1	121.0	129.0	237.1	500.0	3501.6	2516.2	3183.8	2714.5	706.4	445.2
82.5°	72.6	61.3	74.2	195.2	348.4	2182.3	2521.0	1538.7	1219.4	238.8	303.2
85°	25.8	21.0	35.5	133.9	232.2	669.3	2337.1	1293.5	1016.1	116.1	230.7
87.5°	4.8	4.8	14.5	54.8	93.5	204.8	1382.2	767.7	514.5	69.4	158.0
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°	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4	6098.4
2.5°	6079.0	6009.6	5916.1	5801.6	5666.1	5546.7	5458.1	5366.1	5346.8	5314.5	5309.6
5°	6038.7	5919.3	5687.1	5420.9	5137.1	4880.6	4672.5	4487.1	4404.8	4333.8	4325.8
7.5°	5979.0	5800.0	5404.9	4975.8	4532.3	4129.0	3787.1	3545.1	3322.5	3216.2	3200.0
10°	5909.7	5653.2	5087.1	4491.9	3879.0	3309.7	2801.7	2375.8	2117.7	1964.5	1945.1
12.5°	5845.1	5509.7	4762.9	3990.3	3175.8	2414.5	1761.3	1354.8	1083.9	974.2	961.3
15°	5814.6	5393.5	4459.7	3477.4	2440.4	1537.1	962.9	745.1	656.4	630.6	629.0
17.5°	5811.3	5295.2	4162.9	2946.8	1709.7	893.5	627.4	572.5	554.8	548.4	548.4
20°	5809.6	5201.6	3866.1	2396.8	1085.5	595.2	522.6	509.6	496.7	488.7	488.7
22.5°	5827.4	5117.7	3556.5	1835.5	683.8	482.2	459.7	446.7	430.7	419.3	417.8
25°	5845.1	5053.2	3240.3	1306.4	495.2	419.3	396.8	379.0	356.5	342.0	340.3
27.5°	5848.4	4972.6	2901.6	874.2	414.5	366.1	337.1	309.6	283.9	269.3	267.7
30°	5800.0	4837.1	2525.8	590.3	366.1	317.7	279.1	250.0	225.8	214.5	214.5
32.5°	5704.8	4669.4	2112.9	445.2	325.8	272.6	230.7	203.3	187.1	182.3	180.7
35°	5619.4	4488.7	1688.7	377.5	292.0	230.7	188.7	170.9	161.3	159.7	158.0
37.5°	5569.4	4343.6	1290.4	342.0	259.7	193.5	159.7	146.8	142.0	138.7	140.3
40°	5608.0	4222.5	953.2	312.9	227.4	161.3	135.4	129.0	124.2	122.5	122.5
42.5°	5777.4	4201.6	708.1	287.1	196.8	133.9	117.7	112.9	109.7	108.0	109.7
45°	6222.6	4330.7	550.0	262.9	166.1	112.9	100.0	98.4	96.8	96.8	96.8
47.5°	6891.9	4596.7	458.1	235.5	138.7	96.8	87.1	85.5	83.9	85.5	85.5
50°	8025.8	5083.9	409.7	208.1	114.5	82.2	74.2	74.2	74.2	74.2	75.8
52.5°	9749.9	6042.0	377.5	180.7	93.5	69.4	62.9	62.9	64.5	64.5	66.1
55°	11670.9	7312.9	348.4	153.2	79.1	58.1	51.7	53.2	54.8	56.5	56.5
57.5°	13754.8	8721.0	324.2	125.8	67.7	46.7	43.6	45.1	46.7	50.0	50.0
60°	16269.3	10245.2	288.7	98.4	56.5	37.1	33.9	37.1	41.9	45.1	46.7
62.5°	19030.6	11719.3	243.6	77.4	46.7	29.1	27.4	33.9	40.3	43.6	45.1
65°	20917.7	12182.2	187.1	62.9	35.5	21.0	22.6	30.7	38.7	43.6	43.6
67°	20153.2	11045.1	153.2	53.2	29.1	16.2	21.0	30.7	38.7	41.9	43.6
67.5°	19622.5	10600.0	146.8	51.7	27.4	16.2	21.0	30.7	38.7	43.6	43.6
70°	15966.1	7962.9	122.5	38.7	22.6	14.5	17.7	29.1	37.1	41.9	41.9
72.5°	11093.5	4909.7	109.7	27.4	19.3	12.9	16.2	27.4	35.5	40.3	41.9
75°	5274.2	1777.4	93.5	21.0	17.7	11.3	14.5	27.4	35.5	40.3	40.3
77.5°	1075.8	412.9	75.8	17.7	14.5	11.3	12.9	25.8	33.9	38.7	38.7
80°	353.2	159.7	56.5	16.2	14.5	11.3	12.9	24.2	33.9	37.1	38.7
82.5°	254.8	80.6	37.1	16.2	14.5	11.3	11.3	24.2	32.2	37.1	37.1
85°	195.2	56.5	24.2	16.2	14.5	11.3	11.3	22.6	30.7	35.5	35.5
87.5°	129.0	22.6	19.3	16.2	14.5	11.3	11.3	22.6	29.1	33.9	35.5
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)