

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: P193767

Luminaire Tested: **GAN-AF-09-LED-U-SL4-8030-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-8030-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38660 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 575
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

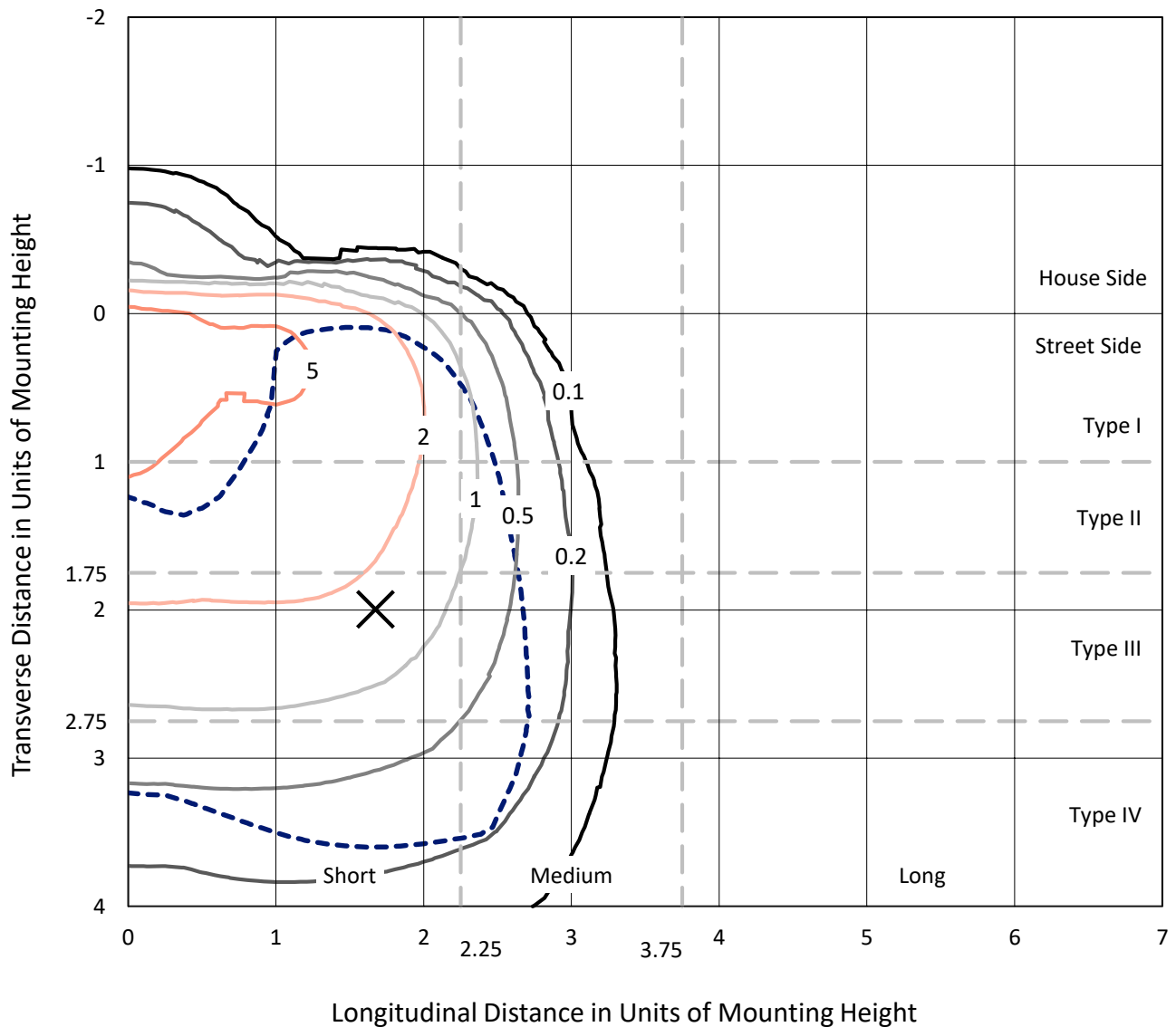


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

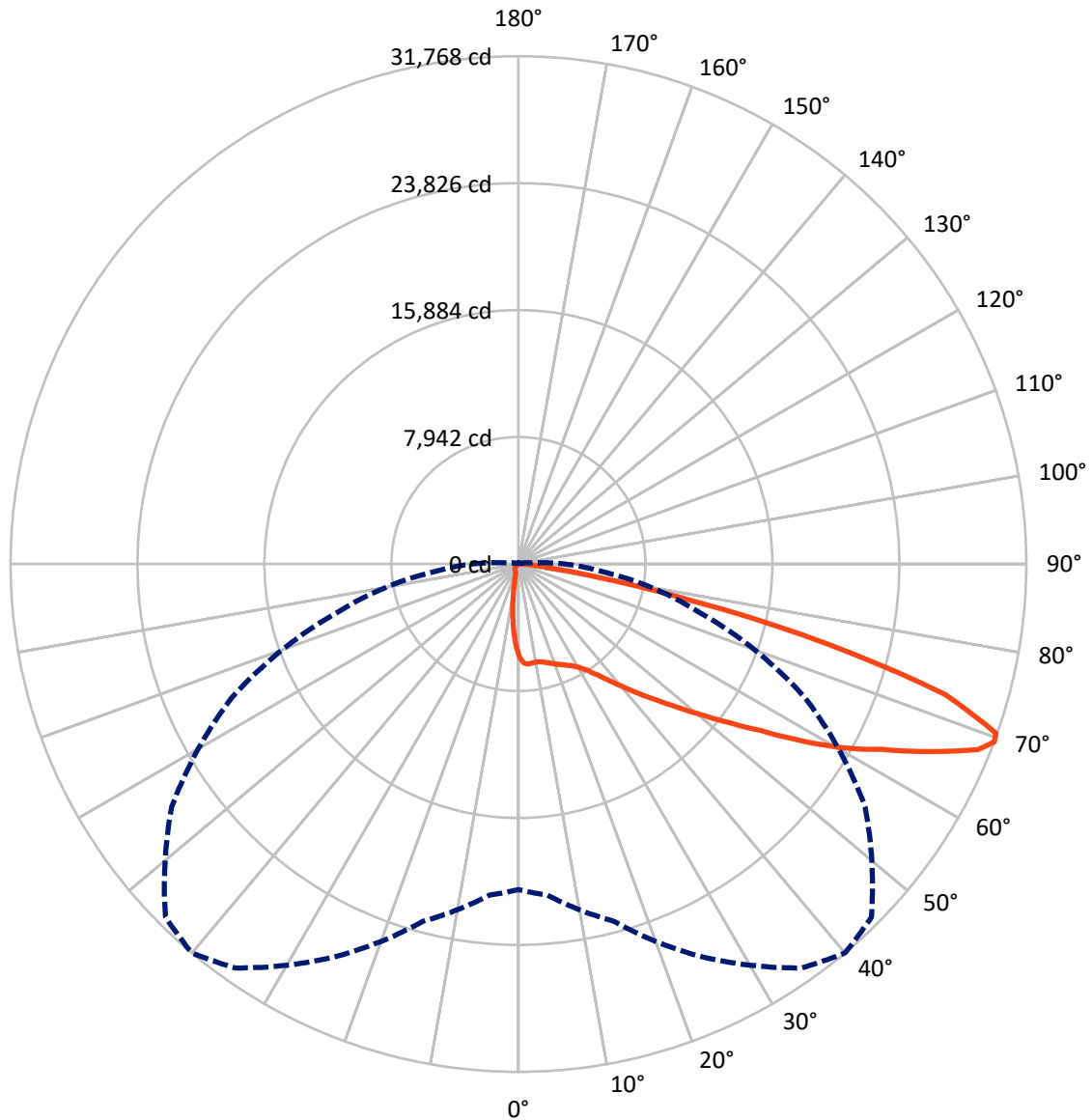


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2261.8	0.0	2261.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	36398.2	0.0	36398.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	38660.0	0.0	38660.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.3	1.2
10°-20°	1151.7	3.0
20°-30°	1939.8	5.0
30°-40°	3175.6	8.2
40°-50°	5498.4	14.2
50°-60°	8660.5	22.4
60°-70°	11310.3	29.3
70°-80°	5825.3	15.1
80°-90°	630.1	1.6
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°	38660.0	100.0
0°-180°	38660.0	100.0



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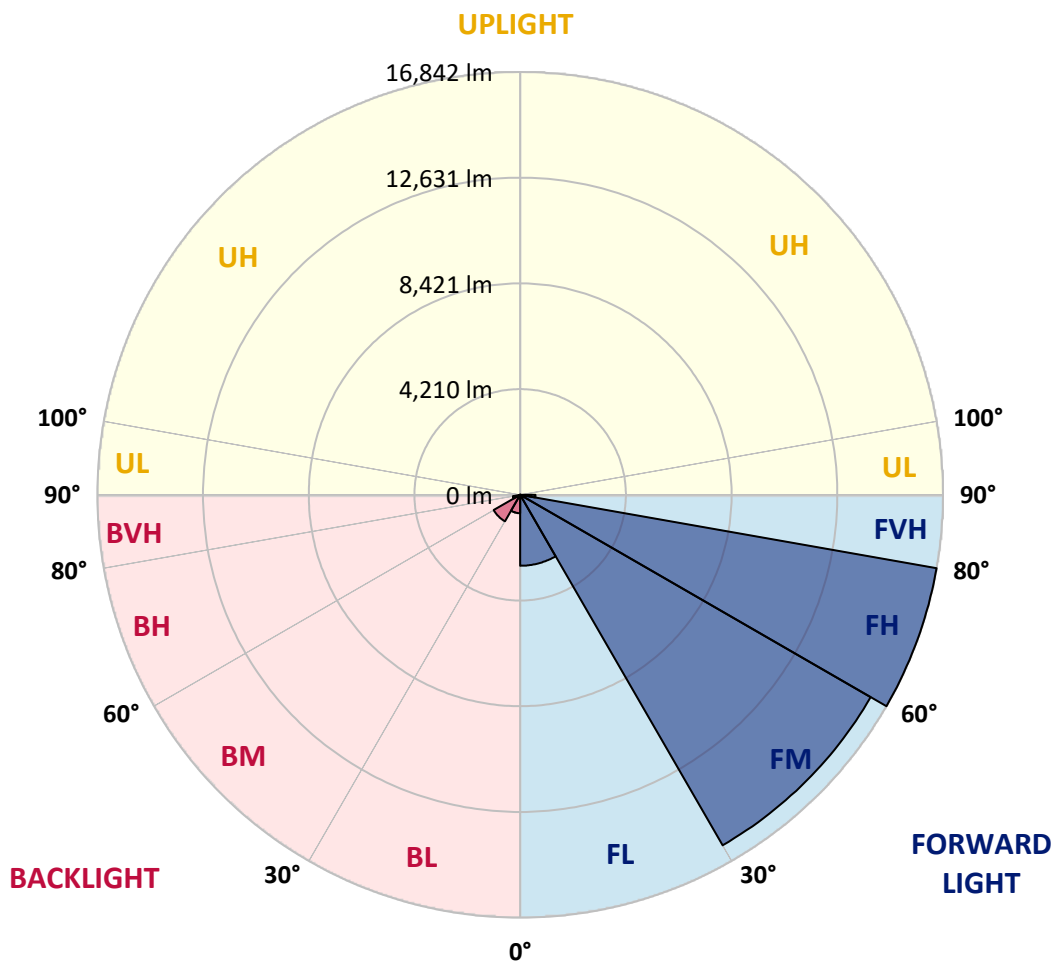
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.2	7.3			
FM (30°-60°)	16118.8	41.7			
FH (60°-80°)	16841.9	43.6			G5
FVH (80°-90°)	610.3	1.6			G4/750
BL (0°-30°)	732.7	1.9	B2/1000		
BM (30°-60°)	1215.7	3.1	B2/2500		
BH (60°-80°)	293.7	0.8	B1/500		G1/500
BVH (80°-90°)	19.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0
2.5°	6342.1	6307.6	6286.9	6259.3	6224.7	6194.8	6183.3	6098.2	6017.6	5907.2	5780.6
5°	6459.5	6448.0	6411.1	6374.3	6332.9	6286.9	6261.6	6160.3	6045.2	5884.2	5663.2
7.5°	6471.0	6457.2	6411.1	6360.5	6303.0	6247.7	6204.0	6102.8	5996.9	5833.5	5564.3
10°	6452.6	6436.4	6401.9	6346.7	6275.4	6222.4	6178.7	6082.1	5992.3	5845.0	5545.9
12.5°	6431.8	6415.7	6399.6	6372.0	6309.9	6273.1	6236.2	6144.2	6063.7	5939.4	5612.6
15°	6452.6	6443.3	6461.8	6450.3	6415.7	6383.5	6346.7	6263.9	6190.2	6086.7	5734.6
17.5°	6540.0	6540.0	6597.5	6604.4	6572.2	6526.2	6473.3	6390.4	6328.3	6240.8	5879.6
20°	6744.8	6737.9	6811.5	6825.3	6747.1	6675.8	6597.5	6496.3	6448.0	6392.7	6022.2
22.5°	7096.9	7064.7	7108.4	7094.6	6940.4	6830.0	6733.3	6609.0	6583.7	6558.4	6181.0
25°	7554.8	7536.4	7566.3	7430.6	7159.0	7009.4	6894.4	6754.0	6754.0	6779.3	6360.5
27.5°	8219.9	8150.8	8049.6	7810.3	7402.9	7211.9	7087.7	6938.1	6977.2	7071.6	6597.5
30°	8901.0	8825.1	8592.7	8224.5	7699.8	7499.6	7354.6	7198.1	7290.2	7462.8	6915.1
32.5°	9573.0	9487.8	9158.8	8693.9	8125.5	7925.3	7784.9	7612.4	7766.5	8056.5	7379.9
35°	10224.2	10148.3	9768.6	9220.9	8691.6	8525.9	8397.1	8247.5	8445.4	8850.4	8035.8
37.5°	10956.0	10873.2	10410.6	9816.9	9379.7	9260.0	9165.7	9016.1	9361.3	9955.0	8949.4
40°	11855.8	11715.4	11091.8	10500.4	10175.9	10118.4	10053.9	10033.2	10569.4	11390.9	10166.7
42.5°	12886.7	12656.6	11805.1	11220.6	11050.3	11091.8	11075.7	11167.7	12081.3	13176.7	11648.7
45°	13917.6	13620.8	12599.0	11989.2	12012.2	12157.2	12247.0	12615.2	13975.2	15224.7	13243.4
47.5°	14792.1	14499.8	13360.7	12820.0	13096.1	13381.5	13625.4	14322.6	15922.0	17240.6	14483.7
50°	15540.0	15263.8	14168.5	13733.5	14354.9	14815.1	15210.9	16244.1	18016.1	18775.5	15353.6
52.5°	16152.1	15968.0	15006.1	14780.6	15793.1	16467.4	17047.3	18285.3	19870.8	20022.7	16030.1
55°	16748.1	16616.9	15905.9	16025.5	17482.2	18400.4	19134.4	20450.7	21467.9	21062.8	16679.1
57.5°	17433.9	17314.2	16932.2	17604.2	19702.8	20858.0	21658.9	22369.9	22873.9	22126.0	17291.2
60°	18133.4	18064.4	18073.6	19357.7	22252.6	23361.7	23803.6	23987.7	24254.6	23127.0	17325.7
62.5°	18800.8	18931.9	19378.4	21309.1	24694.1	25545.6	25768.8	25950.6	25637.6	23285.8	16007.1
65°	19930.7	20144.7	21210.1	23920.9	27379.6	28290.9	28521.0	27897.4	25856.2	21233.1	13020.2
67.5°	20482.9	20874.2	22774.9	26355.6	29984.6	30997.1	30912.0	28024.0	23203.0	16191.2	8355.6
69°	20367.9	20784.4	23136.2	27101.2	30849.8	31768.0	31227.2	26475.3	19767.3	11729.2	5129.4
70°	19912.3	20333.4	22949.8	27073.6	30960.3	31687.5	30642.7	24563.0	16713.6	8576.6	3207.9
72.5°	16628.4	16992.0	20374.8	24470.9	28521.0	27929.6	25635.3	17017.3	8143.9	2335.7	722.6
75°	10235.7	10438.2	14619.5	18434.9	21541.5	20022.7	17079.5	8466.1	2427.8	660.4	400.4
77.5°	5407.8	5499.9	8003.6	10866.2	13655.3	11298.9	8753.8	3302.2	1118.4	414.2	290.0
80°	3196.4	3265.4	4310.1	4968.3	5909.5	4936.1	3500.1	2027.4	800.8	260.0	257.7
82.5°	1829.5	1873.2	3125.0	2761.4	2328.8	1988.2	1742.0	1921.5	481.0	174.9	266.9
85°	671.9	681.2	1758.1	2101.0	1385.3	823.8	865.2	1592.4	128.9	110.5	209.4
87.5°	313.0	306.1	904.4	1286.4	810.0	522.4	674.3	349.8	50.6	71.3	57.5
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°	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0	5776.0
2.5°	5707.0	5621.8	5467.6	5308.9	5147.8	5023.5	4901.5	4804.9	4772.7	4712.9	4717.5
5°	5532.1	5375.6	5053.4	4726.7	4386.1	4105.3	3840.7	3626.7	3523.1	3417.3	3417.3
7.5°	5380.2	5152.4	4648.4	4116.8	3566.9	3104.3	2687.8	2374.8	2202.2	2064.2	2061.9
10°	5322.7	5014.3	4310.1	3548.4	2782.1	2151.6	1656.9	1339.3	1175.9	1070.1	1065.5
12.5°	5348.0	4966.0	4050.1	3023.8	2061.9	1383.0	959.6	754.8	685.8	653.5	653.5
15°	5421.6	4952.2	3790.1	2510.6	1456.7	865.2	637.4	582.2	577.6	577.6	577.6
17.5°	5511.4	4956.8	3523.1	2011.2	991.8	619.0	550.0	543.1	547.7	547.7	547.7
20°	5603.4	4959.1	3235.5	1548.7	699.6	538.5	517.8	515.5	520.1	520.1	522.4
22.5°	5716.2	4970.6	2947.8	1157.5	577.6	508.6	492.5	492.5	494.8	494.8	492.5
25°	5845.0	4993.6	2648.7	858.3	527.0	487.9	474.0	471.7	474.0	471.7	469.4
27.5°	6006.1	5025.8	2315.0	671.9	504.0	467.1	455.6	455.6	453.3	451.0	448.7
30°	6208.6	5062.6	1939.9	570.7	481.0	448.7	437.2	434.9	432.6	428.0	428.0
32.5°	6517.0	5143.2	1569.4	517.8	455.6	423.4	414.2	414.2	409.6	405.0	402.7
35°	6991.0	5302.0	1238.0	485.6	428.0	395.8	384.3	384.3	379.7	377.4	375.1
37.5°	7646.9	5543.6	961.9	455.6	400.4	365.9	354.4	352.1	347.5	342.9	340.6
40°	8519.0	5842.7	757.1	428.0	372.8	336.0	326.8	322.2	313.0	306.1	306.1
42.5°	9614.4	6183.3	614.4	398.1	340.6	308.4	301.5	294.6	278.4	271.5	269.2
45°	10760.4	6489.4	520.1	363.6	308.4	280.7	276.1	264.6	243.9	237.0	237.0
47.5°	11586.5	6560.7	457.9	331.4	278.4	250.8	248.5	227.8	209.4	204.8	202.5
50°	12102.0	6420.3	407.3	299.2	250.8	223.2	216.3	191.0	179.5	174.9	172.6
52.5°	12449.5	6169.5	365.9	271.5	225.5	197.9	181.8	163.4	154.2	149.6	149.6
55°	12727.9	5815.1	324.5	246.2	204.8	177.2	154.2	140.4	131.2	126.6	126.6
57.5°	12806.2	5334.2	283.0	225.5	184.1	156.5	131.2	122.0	110.5	108.2	108.2
60°	12237.8	4466.6	250.8	200.2	165.7	135.8	115.1	103.6	92.0	89.7	87.4
62.5°	10739.7	3456.4	220.9	177.2	145.0	117.4	99.0	85.1	75.9	75.9	75.9
65°	8192.3	2317.3	193.3	154.2	126.6	99.0	85.1	69.0	64.4	64.4	66.7
67.5°	4903.8	1261.1	165.7	131.2	108.2	82.8	71.3	59.8	57.5	59.8	59.8
69°	2874.2	741.0	149.6	117.4	94.3	73.6	62.1	52.9	57.5	59.8	59.8
70°	1774.2	499.4	138.1	105.9	85.1	66.7	57.5	50.6	55.2	57.5	57.5
72.5°	494.8	257.7	110.5	82.8	69.0	55.2	46.0	46.0	52.9	55.2	55.2
75°	322.2	191.0	85.1	62.1	52.9	43.7	39.1	43.7	50.6	52.9	52.9
77.5°	266.9	156.5	69.0	50.6	43.7	41.4	36.8	39.1	46.0	48.3	48.3
80°	243.9	110.5	55.2	46.0	39.1	36.8	34.5	32.2	41.4	43.7	43.7
82.5°	232.4	87.4	48.3	41.4	36.8	32.2	29.9	32.2	36.8	39.1	41.4
85°	145.0	57.5	43.7	39.1	32.2	29.9	29.9	29.9	34.5	36.8	36.8
87.5°	52.9	46.0	39.1	32.2	27.6	27.6	27.6	27.6	29.9	34.5	34.5
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)