

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: P268848

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268848
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-SL4-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA 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: 37523 lumens
Efficiency: N/A
Efficacy: 74.9 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): 501
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

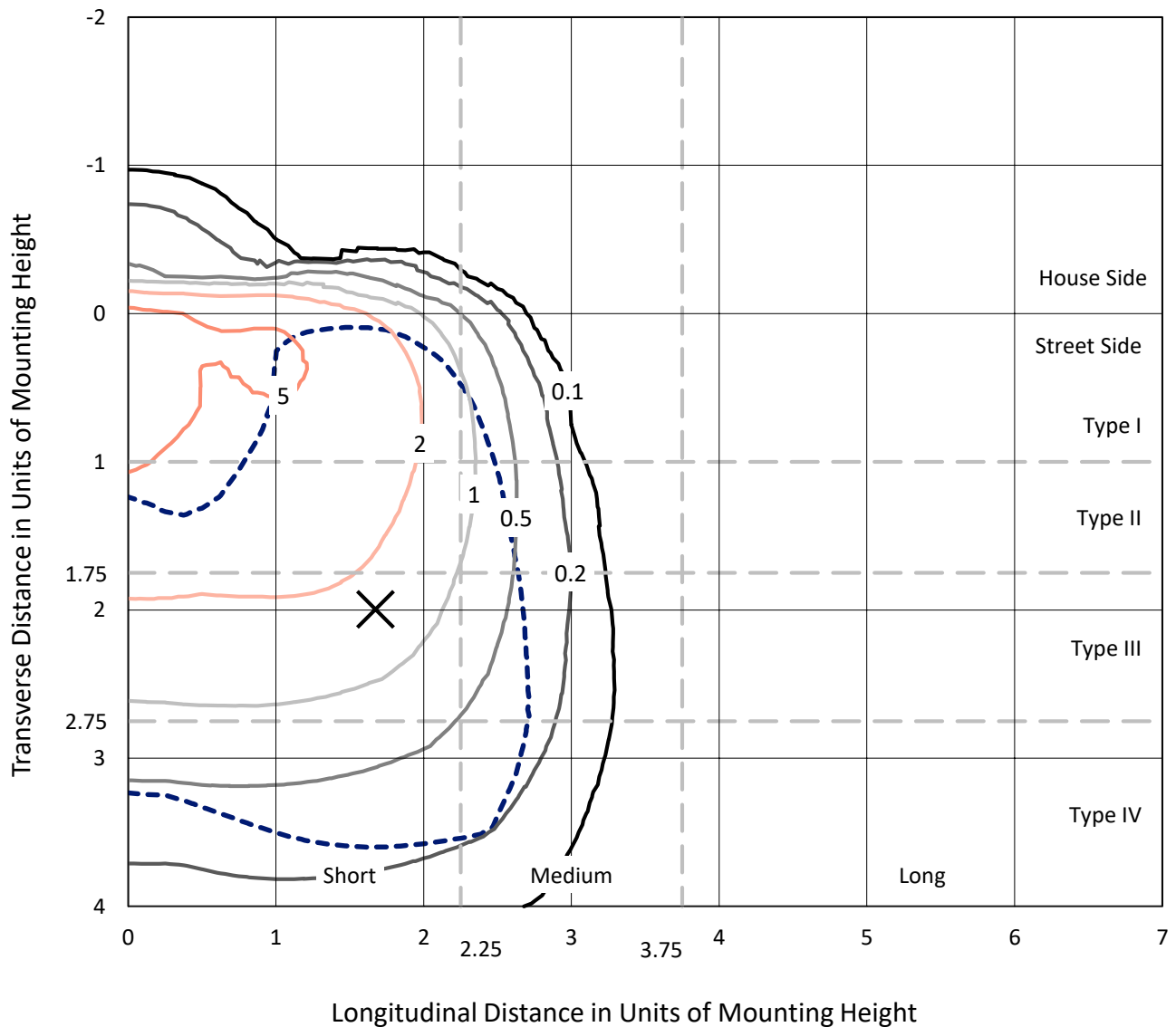


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

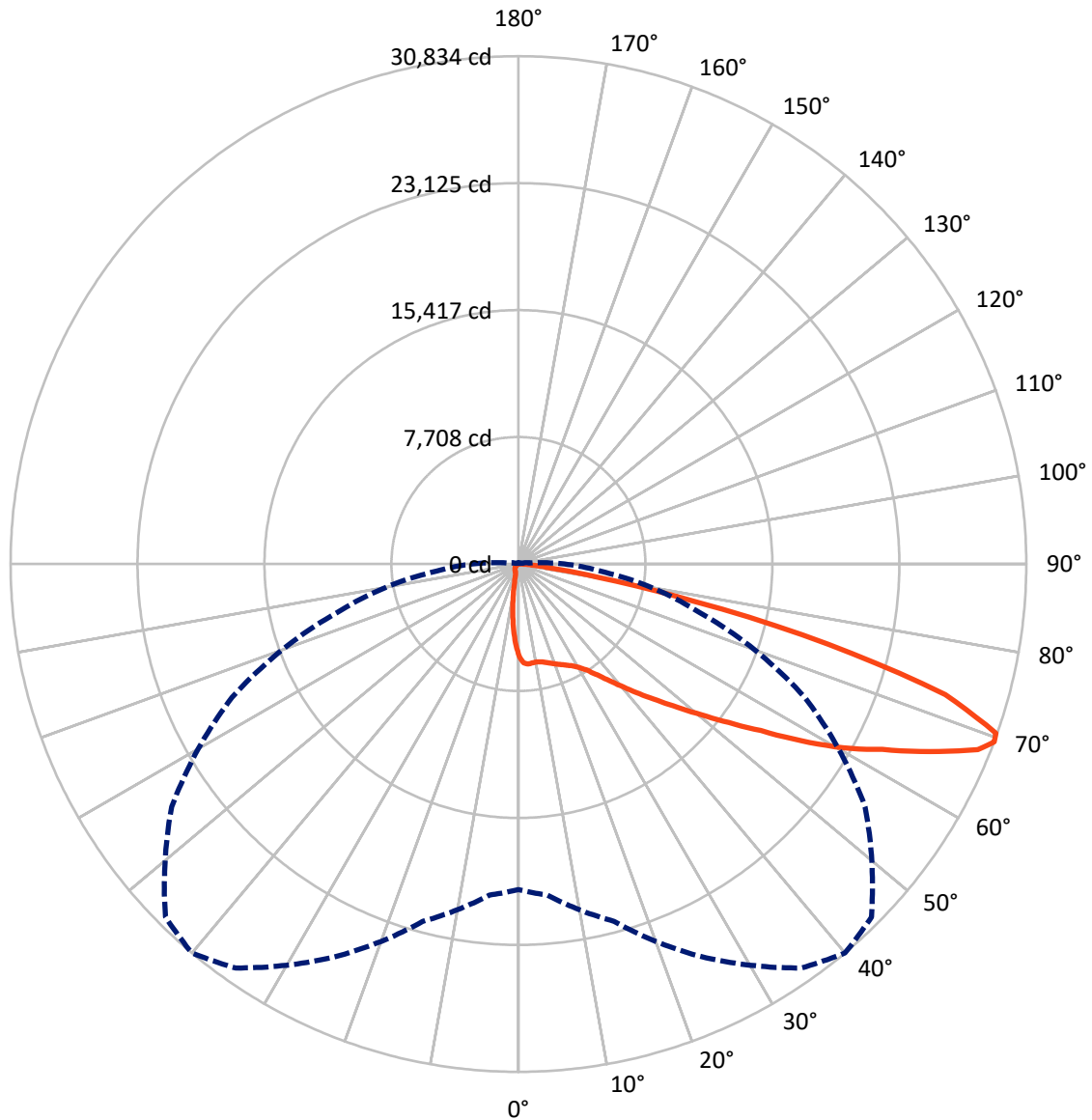


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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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	2195.3	0.0	2195.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	35327.7	0.0	35327.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	37523.0	0.0	37523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.5	1.2
10°-20°	1117.8	3.0
20°-30°	1882.8	5.0
30°-40°	3082.2	8.2
40°-50°	5336.7	14.2
50°-60°	8405.8	22.4
60°-70°	10977.6	29.3
70°-80°	5654.0	15.1
80°-90°	611.6	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°	37523.0	100.0
0°-180°	37523.0	100.0

Coefficient of Utilization



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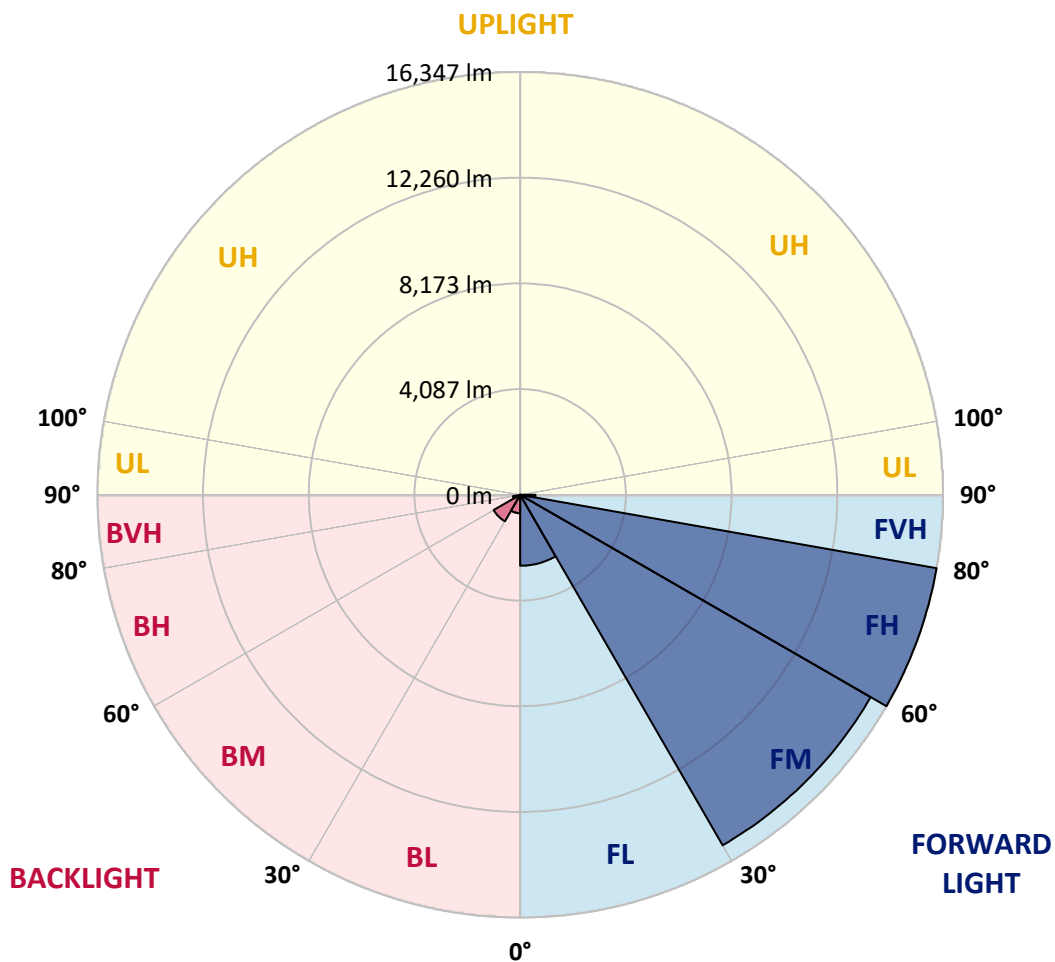
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2744.0	7.3			
FM	(30°-60°)	15644.7	41.7			
FH	(60°-80°)	16346.6	43.6			G5
FVH	(80°-90°)	592.4	1.6			G4/750
BL	(0°-30°)	711.1	1.9	B2/1000		
BM	(30°-60°)	1179.9	3.1	B2/2500		
BH	(60°-80°)	285.1	0.8	B1/500		G1/500
BVH	(80°-90°)	19.2	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°	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1
2.5°	6155.5	6122.0	6101.9	6075.1	6041.7	6012.6	6001.4	5918.8	5840.7	5733.4	5610.6
5°	6269.5	6258.3	6222.6	6186.8	6146.7	6101.9	6077.5	5979.1	5867.5	5711.2	5496.6
7.5°	6280.7	6267.2	6222.6	6173.4	6117.5	6064.0	6021.6	5923.3	5820.6	5661.9	5400.6
10°	6262.9	6247.2	6213.7	6160.0	6090.8	6039.5	5996.9	5903.2	5816.0	5673.2	5382.7
12.5°	6242.7	6227.1	6211.4	6184.7	6124.4	6088.6	6052.8	5963.5	5885.3	5764.8	5447.5
15°	6262.9	6253.8	6271.7	6260.6	6227.1	6195.8	6160.0	6079.5	6008.1	5907.7	5565.9
17.5°	6347.7	6347.7	6403.5	6410.1	6379.0	6334.3	6282.8	6202.4	6142.3	6057.4	5706.7
20°	6546.5	6539.8	6611.3	6624.6	6548.6	6479.5	6403.5	6305.3	6258.3	6204.8	5845.1
22.5°	6888.2	6856.9	6899.3	6886.0	6736.3	6629.1	6535.3	6414.6	6390.2	6365.5	5999.2
25°	7332.7	7314.8	7343.9	7212.0	6948.5	6803.4	6691.7	6555.4	6555.4	6579.9	6173.4
27.5°	7978.1	7911.2	7812.9	7580.5	7185.3	6999.9	6879.2	6734.1	6772.1	6863.6	6403.5
30°	8639.3	8565.6	8340.0	7982.6	7473.4	7279.1	7138.3	6986.5	7075.8	7243.4	6711.7
32.5°	9291.3	9208.7	8889.4	8438.1	7886.6	7692.2	7556.1	7388.5	7538.1	7819.6	7162.8
35°	9923.5	9849.8	9481.3	8949.8	8436.1	8275.1	8150.1	8004.9	8197.0	8590.1	7799.4
37.5°	10633.7	10553.4	10104.5	9528.2	9103.9	8987.7	8896.2	8750.8	9085.9	9662.2	8686.2
40°	11507.1	11370.8	10765.6	10191.5	9876.7	9820.8	9758.3	9738.2	10258.6	11055.9	9867.7
42.5°	12507.7	12284.3	11457.9	10890.6	10725.4	10765.6	10749.9	10839.3	11725.9	12789.1	11306.1
45°	13508.4	13220.1	12228.4	11636.6	11658.9	11799.6	11886.8	12244.2	13564.1	14776.9	12853.8
47.5°	14357.0	14073.3	12967.8	12443.0	12710.9	12988.0	13224.7	13901.5	15453.7	16733.4	14057.8
50°	15082.9	14814.9	13751.8	13329.6	13932.7	14379.3	14763.6	15766.4	17486.1	18223.2	14902.1
52.5°	15677.1	15498.4	14564.8	14345.9	15328.7	15983.1	16545.9	17747.5	19286.4	19433.8	15558.7
55°	16255.5	16128.2	15438.1	15554.2	16968.1	17859.3	18571.6	19849.3	20836.5	20443.4	16188.5
57.5°	16921.2	16805.0	16434.2	17086.4	19123.4	20244.7	21021.9	21712.0	22201.3	21475.3	16782.7
60°	17600.1	17533.1	17542.0	18788.4	21598.0	22674.7	23103.5	23282.2	23541.3	22446.8	16816.1
62.5°	18247.8	18375.2	18808.4	20682.3	23967.9	24794.3	25010.9	25187.3	24883.6	22600.9	15536.4
65°	19344.6	19552.1	20586.4	23217.5	26574.4	27458.9	27682.2	27076.9	25095.8	20608.6	12637.3
67.5°	19880.6	20260.3	22105.1	25580.5	29102.7	30085.4	30002.9	27199.8	22520.6	15714.9	8109.9
69°	19768.9	20173.1	22455.8	26304.2	29942.6	30833.8	30308.9	25696.6	19185.9	11384.2	4978.4
70°	19326.7	19735.4	22274.9	26277.3	30049.7	30755.5	29741.5	23840.6	16222.0	8324.4	3113.5
72.5°	16139.4	16492.3	19775.6	23751.2	27682.2	27108.2	24881.4	16516.9	7904.5	2267.1	701.3
75°	9934.6	10131.3	14189.5	17892.7	20908.1	19433.8	16577.2	8217.2	2356.3	641.0	388.6
77.5°	5248.7	5338.1	7768.2	10546.7	13253.8	10966.6	8496.3	3205.2	1085.5	402.0	281.3
80°	3102.3	3169.4	4183.3	4822.2	5735.7	4790.9	3397.2	1967.7	777.3	252.3	250.2
82.5°	1775.7	1818.1	3033.0	2680.3	2260.3	1929.7	1690.8	1865.1	466.8	169.8	259.2
85°	652.2	661.2	1706.4	2039.2	1344.6	799.6	839.7	1545.7	125.0	107.2	203.2
87.5°	303.7	297.1	877.7	1248.6	786.1	507.1	654.4	339.5	49.1	69.2	55.9
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°	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1	5606.1
2.5°	5539.0	5456.5	5306.8	5152.7	4996.5	4875.8	4757.5	4663.6	4632.3	4574.3	4578.8
5°	5369.3	5217.4	4904.8	4587.6	4257.1	3984.6	3727.7	3520.0	3419.5	3316.8	3316.8
7.5°	5221.9	5000.9	4511.6	3995.8	3462.0	3013.1	2608.8	2305.1	2137.4	2003.5	2001.2
10°	5166.2	4866.8	4183.3	3444.1	2700.3	2088.3	1608.1	1299.8	1141.3	1038.6	1034.0
12.5°	5190.6	4819.9	3931.1	2934.9	2001.2	1342.3	931.5	732.6	665.6	634.4	634.4
15°	5262.2	4806.6	3678.6	2436.7	1413.8	839.7	618.8	565.0	560.6	560.6	560.6
17.5°	5349.2	4811.1	3419.5	1952.0	962.7	600.8	533.9	527.1	531.5	531.5	531.5
20°	5438.6	4813.2	3140.4	1503.1	678.9	522.6	502.5	500.3	504.8	504.8	507.1
22.5°	5548.0	4824.3	2861.1	1123.5	560.6	493.6	478.0	478.0	480.2	480.2	478.0
25°	5673.2	4846.7	2570.8	833.1	511.5	473.4	460.1	457.9	460.1	457.9	455.6
27.5°	5829.6	4877.9	2246.9	652.2	489.1	453.5	442.2	442.2	440.0	437.7	435.6
30°	6026.0	4913.8	1882.8	554.0	466.8	435.6	424.4	422.2	419.9	415.5	415.5
32.5°	6325.3	4991.9	1523.3	502.5	442.2	411.0	402.0	402.0	397.6	393.1	390.9
35°	6785.4	5146.0	1201.7	471.3	415.5	384.1	372.9	372.9	368.6	366.2	364.1
37.5°	7421.9	5380.6	933.6	442.2	388.6	355.1	344.1	341.7	337.3	332.8	330.5
40°	8268.4	5670.9	734.9	415.5	361.8	326.1	317.1	312.7	303.7	297.1	297.1
42.5°	9331.7	6001.4	596.4	386.5	330.5	299.2	292.6	285.9	270.3	263.6	261.3
45°	10444.0	6298.6	504.8	352.9	299.2	272.5	268.1	256.8	236.8	230.1	230.1
47.5°	11245.8	6367.7	444.5	321.7	270.3	243.4	241.3	221.2	203.2	198.7	196.5
50°	11746.1	6231.5	395.3	290.3	243.4	216.6	209.9	185.4	174.2	169.8	167.5
52.5°	12083.3	5988.0	355.1	263.6	218.8	192.1	176.4	158.6	149.7	145.2	145.2
55°	12353.6	5644.1	314.9	238.9	198.7	171.9	149.7	136.3	127.3	122.9	122.9
57.5°	12429.6	5177.3	274.7	218.8	178.8	151.9	127.3	118.3	107.2	105.0	105.0
60°	11877.8	4335.3	243.4	194.4	160.7	131.8	111.7	100.5	89.3	87.1	84.9
62.5°	10423.8	3354.7	214.4	171.9	140.8	113.9	96.1	82.6	73.8	73.8	73.8
65°	7951.3	2249.1	187.7	149.7	122.9	96.1	82.6	67.1	62.5	62.5	64.8
67.5°	4759.6	1224.0	160.7	127.3	105.0	80.4	69.2	58.1	55.9	58.1	58.1
69°	2789.6	719.3	145.2	113.9	91.5	71.4	60.2	51.4	55.9	58.1	58.1
70°	1722.1	484.6	133.9	102.8	82.6	64.8	55.9	49.1	53.5	55.9	55.9
72.5°	480.2	250.2	107.2	80.4	67.1	53.5	44.6	44.6	51.4	53.5	53.5
75°	312.7	185.4	82.6	60.2	51.4	42.4	38.0	42.4	49.1	51.4	51.4
77.5°	259.2	151.9	67.1	49.1	42.4	40.2	35.8	38.0	44.6	46.9	46.9
80°	236.8	107.2	53.5	44.6	38.0	35.8	33.4	31.4	40.2	42.4	42.4
82.5°	225.6	84.9	46.9	40.2	35.8	31.4	29.0	31.4	35.8	38.0	40.2
85°	140.8	55.9	42.4	38.0	31.4	29.0	29.0	29.0	33.4	35.8	35.8
87.5°	51.4	44.6	38.0	31.4	26.8	26.8	26.8	26.8	29.0	33.4	33.4
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)