

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: P268683

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268683
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-07-LED-U-SL4-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 19560 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 226
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

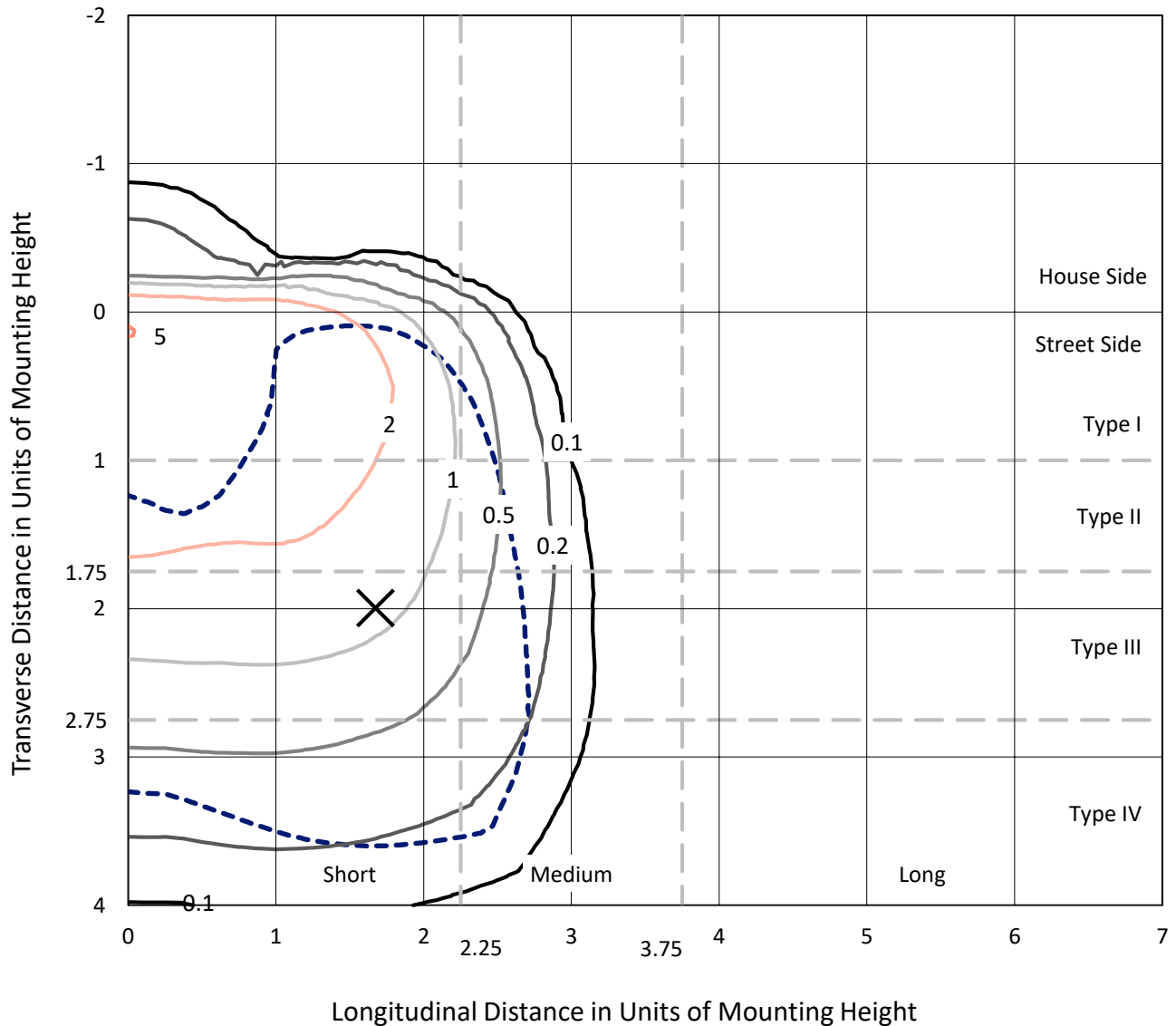


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

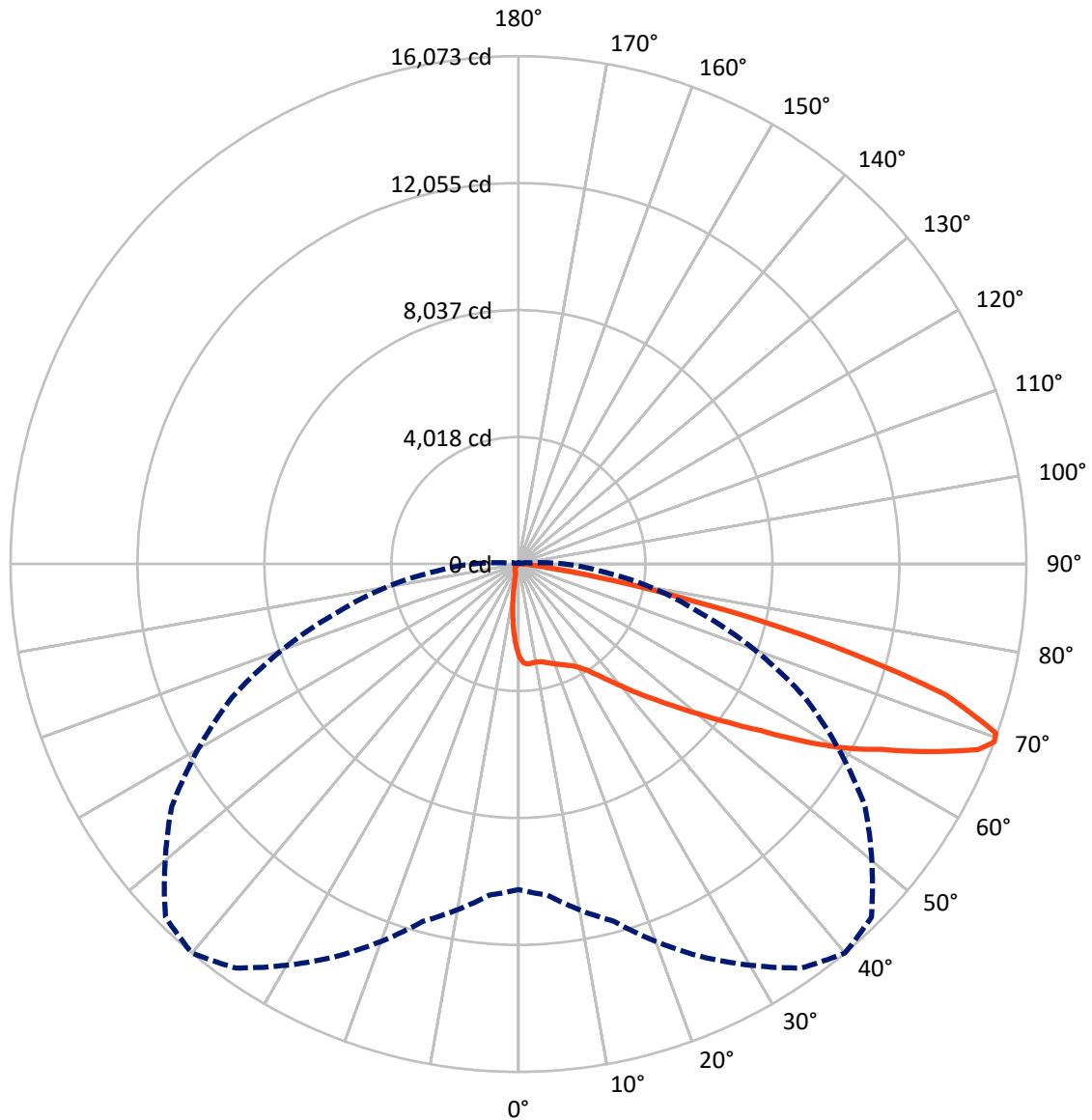


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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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	1144.4	0.0	1144.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	18415.6	0.0	18415.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	19560.0	0.0	19560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.2
10°-20°	582.7	3.0
20°-30°	981.5	5.0
30°-40°	1606.7	8.2
40°-50°	2781.9	14.2
50°-60°	4381.8	22.4
60°-70°	5722.4	29.3
70°-80°	2947.3	15.1
80°-90°	318.8	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°	19560.0	100.0
0°-180°	19560.0	100.0

Coefficient of Utilization



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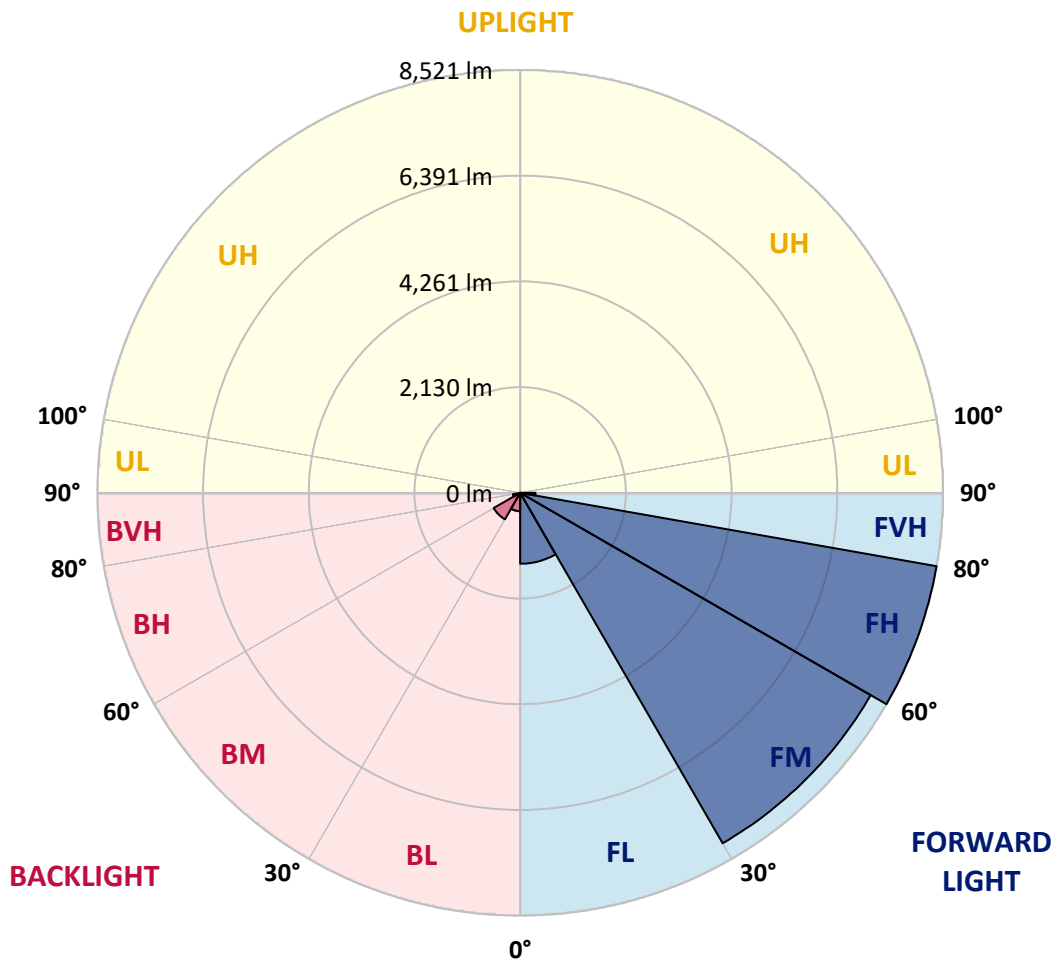
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1430.4	7.3			
FM	(30°-60°)	8155.3	41.7			
FH	(60°-80°)	8521.1	43.6			G4/12000
FVH	(80°-90°)	308.8	1.6			G3/500
BL	(0°-30°)	370.7	1.9	B1/500		
BM	(30°-60°)	615.1	3.1	B1/1000		
BH	(60°-80°)	148.6	0.8	B1/500		G1/500
BVH	(80°-90°)	10.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4
2.5°	3208.7	3191.3	3180.8	3166.9	3149.4	3134.2	3128.4	3085.4	3044.6	2988.8	2924.7
5°	3268.2	3262.4	3243.7	3225.1	3204.2	3180.8	3168.1	3116.8	3058.5	2977.1	2865.4
7.5°	3274.0	3267.0	3243.7	3218.1	3189.0	3161.0	3138.9	3087.7	3034.1	2951.6	2815.3
10°	3264.7	3256.4	3239.1	3211.1	3175.0	3148.2	3126.1	3077.2	3031.8	2957.3	2805.9
12.5°	3254.2	3246.0	3237.9	3223.8	3192.4	3173.8	3155.1	3108.7	3067.9	3005.0	2839.7
15°	3264.7	3259.9	3269.3	3263.5	3246.0	3229.8	3211.1	3169.2	3131.9	3079.5	2901.3
17.5°	3308.8	3308.8	3338.0	3341.4	3325.2	3301.9	3275.1	3233.2	3201.7	3157.5	2974.7
20°	3412.5	3409.0	3446.3	3453.3	3413.6	3377.5	3338.0	3286.8	3262.4	3234.3	3047.0
22.5°	3590.6	3574.4	3596.5	3589.4	3511.5	3455.6	3406.7	3343.9	3331.1	3318.2	3127.3
25°	3822.4	3813.0	3828.1	3759.4	3622.1	3546.4	3488.2	3417.2	3417.2	3430.0	3218.1
27.5°	4158.9	4123.8	4072.6	3951.6	3745.6	3648.8	3586.0	3510.3	3530.1	3577.9	3338.0
30°	4503.5	4465.0	4347.4	4161.2	3895.7	3794.4	3721.0	3641.9	3688.4	3775.8	3498.7
32.5°	4843.4	4800.4	4633.8	4398.7	4111.2	4009.9	3938.8	3851.5	3929.5	4076.1	3733.8
35°	5172.9	5134.5	4942.4	4665.3	4397.6	4313.8	4248.4	4172.7	4272.9	4477.8	4065.6
37.5°	5543.3	5501.2	5267.2	4966.9	4745.7	4685.1	4637.3	4561.7	4736.4	5036.6	4527.8
40°	5998.4	5927.3	5611.8	5312.7	5148.5	5119.4	5086.7	5076.3	5347.6	5763.3	5143.9
42.5°	6520.0	6403.6	5972.8	5677.1	5591.0	5611.8	5603.6	5650.2	6112.4	6666.7	5893.6
45°	7041.6	6891.3	6374.5	6066.0	6077.6	6151.0	6196.2	6382.5	7070.6	7702.8	6700.5
47.5°	7484.0	7336.2	6759.8	6486.2	6626.0	6770.3	6893.8	7246.4	8055.7	8722.8	7328.1
50°	7862.4	7722.6	7168.6	6948.5	7262.7	7495.6	7695.9	8218.8	9115.2	9499.3	7768.2
52.5°	8172.2	8078.9	7592.4	7478.2	7990.6	8331.6	8625.0	9251.5	10053.7	10130.5	8110.3
55°	8473.6	8407.2	8047.6	8108.1	8845.2	9309.7	9681.0	10346.9	10861.6	10656.8	8438.8
57.5°	8820.6	8760.1	8566.7	8906.8	9968.6	10553.1	10958.2	11318.0	11573.0	11194.6	8748.5
60°	9174.6	9139.6	9144.2	9794.0	11258.6	11819.8	12043.3	12136.6	12271.6	11701.1	8765.9
62.5°	9512.2	9578.5	9804.5	10781.3	12493.9	12924.8	13037.7	13129.6	12971.3	11781.5	8098.8
65°	10083.8	10192.2	10731.2	12102.8	13852.7	14313.8	14430.2	14114.6	13081.8	10742.9	6587.5
67.5°	10363.2	10561.3	11522.9	13334.6	15170.7	15682.9	15639.9	14178.7	11739.5	8192.0	4227.6
69°	10305.0	10515.7	11705.8	13711.8	15608.4	16073.0	15799.4	13395.0	10001.2	5934.4	2595.3
70°	10074.5	10287.6	11611.4	13697.9	15664.3	16032.2	15503.6	12427.6	8456.3	4339.4	1623.0
72.5°	8413.2	8597.0	10308.6	12381.0	14430.2	14131.0	12970.2	8609.9	4120.3	1181.7	365.6
75°	5178.8	5281.1	7396.7	9327.1	10898.9	10130.5	8641.3	4283.4	1228.3	334.2	202.6
77.5°	2736.1	2782.6	4049.4	5497.7	6908.9	5716.6	4429.0	1670.8	565.8	209.6	146.8
80°	1617.2	1652.2	2180.7	2513.6	2989.9	2497.4	1770.9	1025.8	405.1	131.5	130.4
82.5°	925.7	947.7	1581.0	1397.1	1178.2	1005.9	881.3	972.1	243.4	88.6	135.0
85°	340.0	344.6	889.5	1063.0	700.9	416.9	437.7	805.7	65.1	55.9	105.9
87.5°	158.3	154.9	457.5	650.8	409.8	264.3	341.1	177.0	25.6	36.1	29.1
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°	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4	2922.4
2.5°	2887.4	2844.4	2766.3	2686.0	2604.5	2541.7	2480.0	2431.1	2414.7	2384.5	2386.7
5°	2798.9	2719.8	2556.8	2391.5	2219.2	2077.2	1943.3	1834.9	1782.5	1729.0	1729.0
7.5°	2722.1	2606.8	2351.9	2082.9	1804.7	1570.6	1359.9	1201.6	1114.2	1044.4	1043.2
10°	2692.9	2537.0	2180.7	1795.4	1407.6	1088.6	838.3	677.6	594.9	541.4	539.1
12.5°	2705.9	2512.5	2049.2	1529.9	1043.2	699.7	485.5	381.9	346.9	330.7	330.7
15°	2743.1	2505.6	1917.6	1270.3	737.0	437.7	322.5	294.6	292.2	292.2	292.2
17.5°	2788.5	2507.9	1782.5	1017.6	501.9	313.1	278.3	274.8	277.0	277.0	277.0
20°	2835.1	2509.1	1637.0	783.5	353.9	272.5	261.9	260.8	263.2	263.2	264.3
22.5°	2892.2	2514.8	1491.5	585.6	292.2	257.4	249.2	249.2	250.3	250.3	249.2
25°	2957.3	2526.6	1340.1	434.3	266.6	246.9	239.8	238.7	239.8	238.7	237.5
27.5°	3038.7	2542.8	1171.3	340.0	254.9	236.3	230.5	230.5	229.3	228.2	227.0
30°	3141.3	2561.4	981.5	288.7	243.4	227.0	221.3	220.1	218.8	216.5	216.5
32.5°	3297.3	2602.2	794.0	261.9	230.5	214.2	209.6	209.6	207.2	205.0	203.7
35°	3537.0	2682.5	626.4	245.6	216.5	200.2	194.5	194.5	192.1	190.9	189.8
37.5°	3868.9	2804.8	486.7	230.5	202.6	185.1	179.3	178.1	175.8	173.6	172.4
40°	4310.2	2956.1	383.0	216.5	188.6	170.0	165.3	163.0	158.3	154.9	154.9
42.5°	4864.4	3128.4	310.9	201.4	172.4	156.0	152.5	148.9	140.9	137.4	136.3
45°	5444.2	3283.2	263.2	184.0	156.0	142.0	139.7	133.8	123.3	120.0	120.0
47.5°	5862.2	3319.3	231.8	167.7	140.9	126.9	125.8	115.3	105.9	103.7	102.4
50°	6122.9	3248.4	206.2	151.4	126.9	112.9	109.5	96.7	90.8	88.6	87.3
52.5°	6298.7	3121.4	185.1	137.4	114.2	100.2	91.9	82.6	78.1	75.6	75.6
55°	6439.7	2942.2	164.2	124.5	103.7	89.7	78.1	71.1	66.4	64.0	64.0
57.5°	6479.2	2698.8	143.2	114.2	93.2	79.2	66.4	61.8	55.9	54.7	54.7
60°	6191.7	2259.9	126.9	101.2	83.8	68.7	58.2	52.5	46.6	45.5	44.2
62.5°	5433.7	1748.8	111.7	89.7	73.3	59.4	50.0	43.1	38.4	38.4	38.4
65°	4144.9	1172.5	97.7	78.1	64.0	50.0	43.1	34.9	32.6	32.6	33.7
67.5°	2481.1	638.1	83.8	66.4	54.7	42.0	36.1	30.3	29.1	30.3	30.3
69°	1454.1	375.0	75.6	59.4	47.7	37.3	31.4	26.8	29.1	30.3	30.3
70°	897.6	252.7	69.9	53.5	43.1	33.7	29.1	25.6	27.9	29.1	29.1
72.5°	250.3	130.4	55.9	42.0	34.9	27.9	23.3	23.3	26.8	27.9	27.9
75°	163.0	96.7	43.1	31.4	26.8	22.1	19.9	22.1	25.6	26.8	26.8
77.5°	135.0	79.2	34.9	25.6	22.1	21.0	18.7	19.9	23.3	24.4	24.4
80°	123.3	55.9	27.9	23.3	19.9	18.7	17.4	16.3	21.0	22.1	22.1
82.5°	117.6	44.2	24.4	21.0	18.7	16.3	15.1	16.3	18.7	19.9	21.0
85°	73.3	29.1	22.1	19.9	16.3	15.1	15.1	15.1	17.4	18.7	18.7
87.5°	26.8	23.3	19.9	16.3	14.0	14.0	14.0	14.0	15.1	17.4	17.4
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)