

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: P268448

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268448
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-04-LED-U-SL4-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16931.5 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

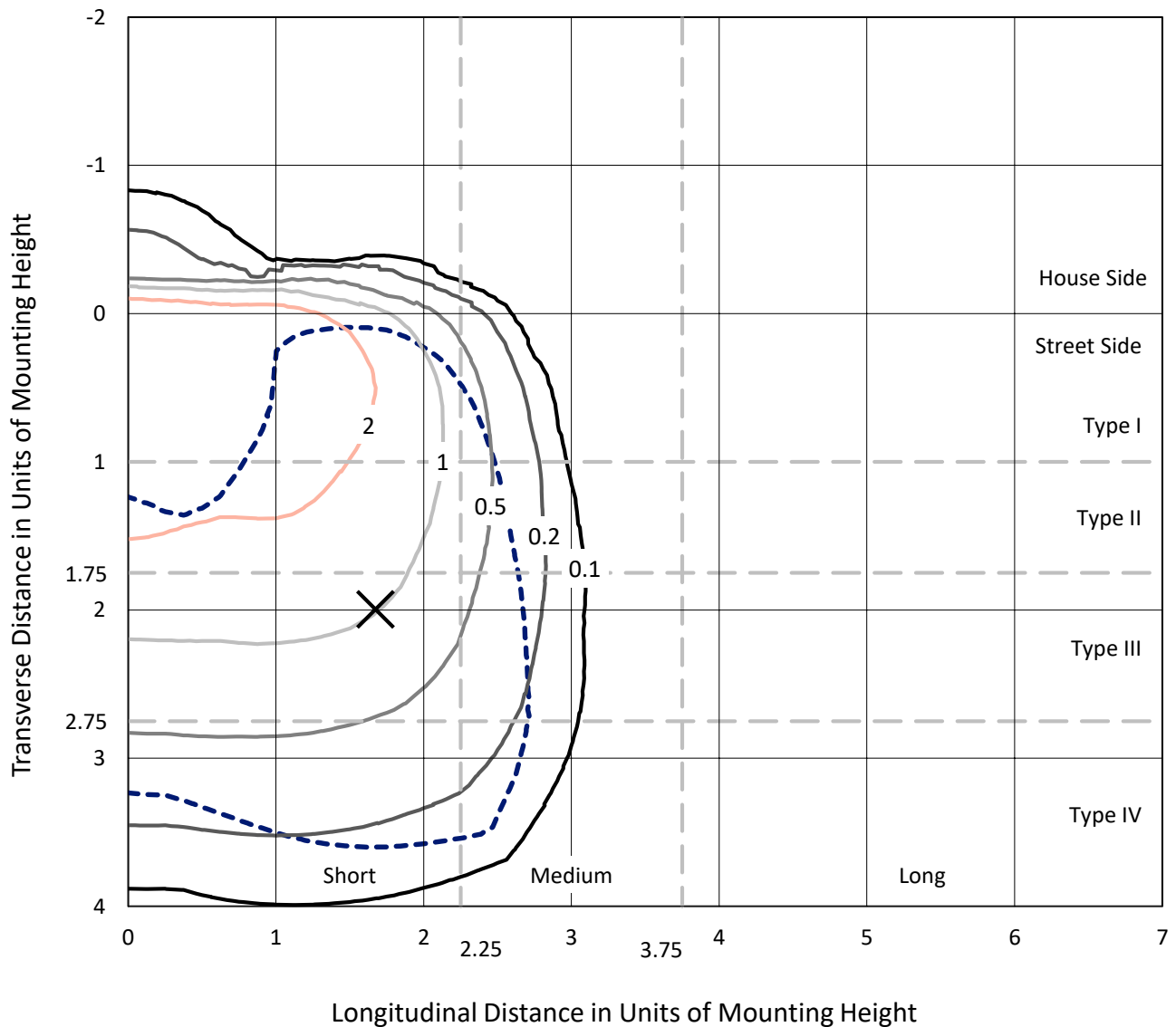
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

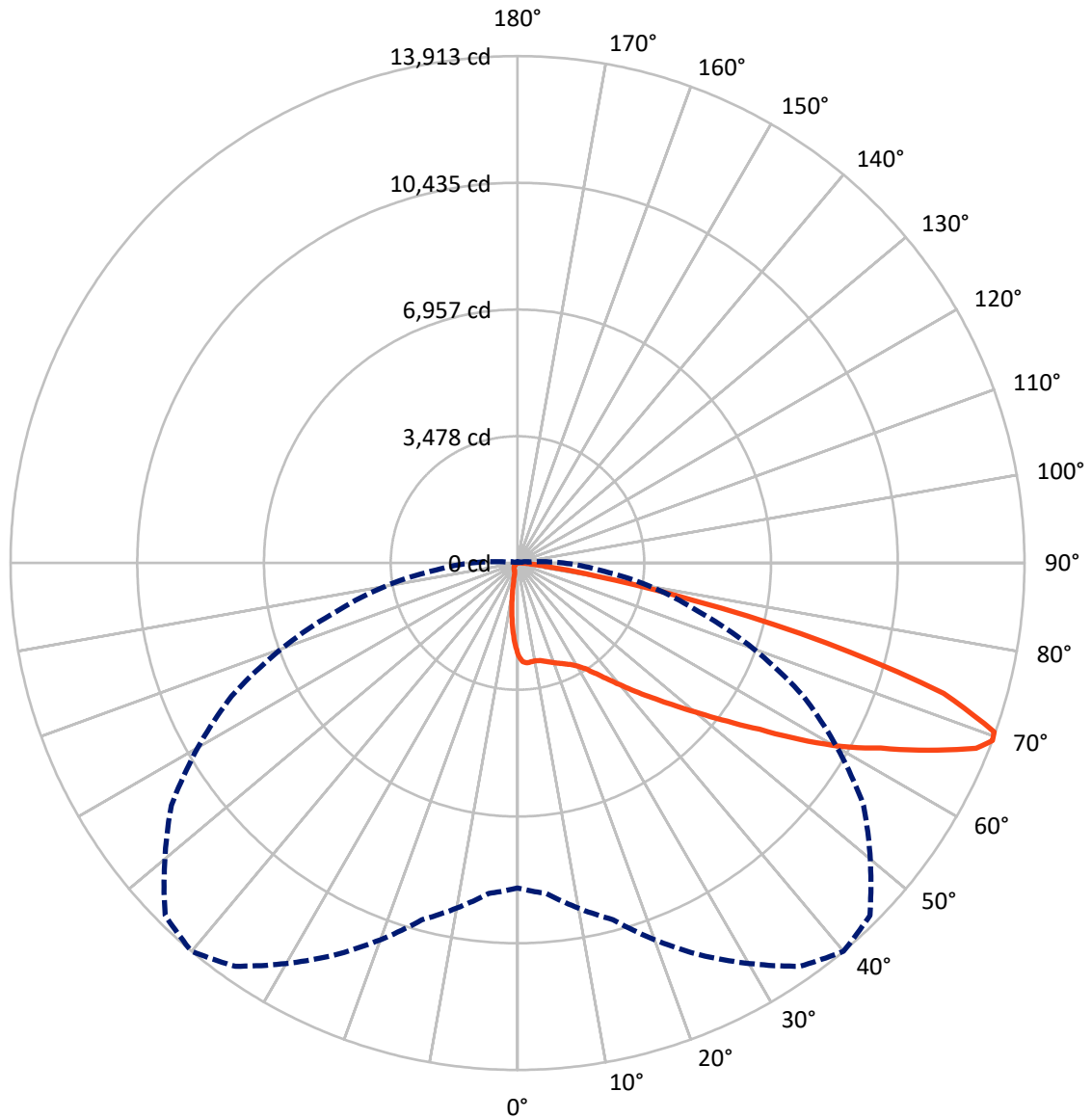


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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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	990.6	0.0	990.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	15940.9	0.0	15940.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	16931.5	0.0	16931.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	1.2
10°-20°	504.4	3.0
20°-30°	849.6	5.0
30°-40°	1390.8	8.2
40°-50°	2408.1	14.2
50°-60°	3793.0	22.4
60°-70°	4953.5	29.3
70°-80°	2551.2	15.1
80°-90°	276.0	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°	16931.5	100.0
0°-180°	16931.5	100.0

Coefficient of Utilization



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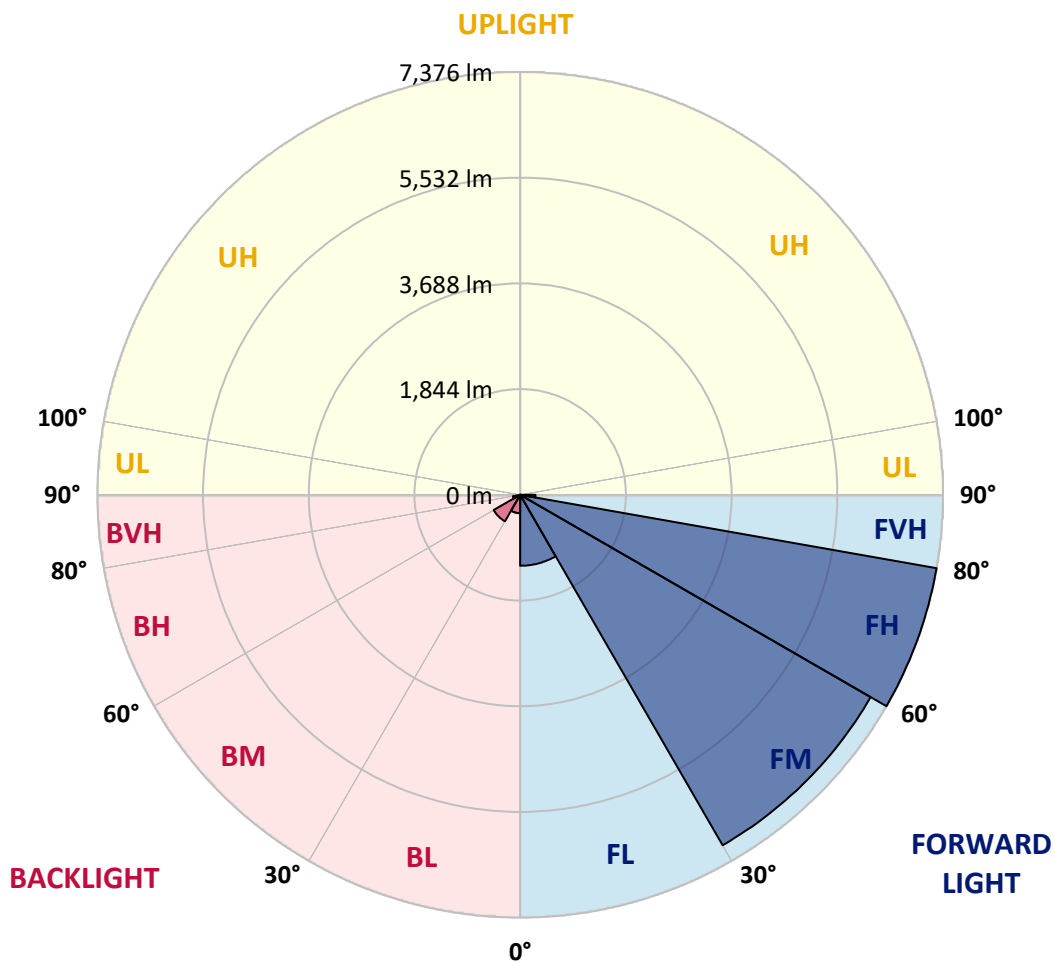
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.2	7.3			
FM	(30°-60°)	7059.4	41.7			
FH	(60°-80°)	7376.1	43.6			G3/7500
FVH	(80°-90°)	267.3	1.6			G3/500
BL	(0°-30°)	320.9	1.9	B1/500		
BM	(30°-60°)	532.4	3.1	B1/1000		
BH	(60°-80°)	128.6	0.8	B1/500		G1/500
BVH	(80°-90°)	8.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6
2.5°	2777.6	2762.5	2753.3	2741.3	2726.1	2713.2	2708.0	2670.8	2635.4	2587.1	2531.7
5°	2829.0	2823.9	2807.8	2791.8	2773.5	2753.3	2742.3	2698.0	2647.6	2577.0	2480.3
7.5°	2834.1	2828.0	2807.8	2785.6	2760.4	2736.2	2717.2	2672.7	2626.5	2554.9	2436.9
10°	2826.0	2818.9	2803.8	2779.5	2748.4	2725.2	2706.1	2663.7	2624.4	2559.9	2428.8
12.5°	2816.8	2809.9	2802.8	2790.7	2763.5	2747.3	2731.2	2691.0	2655.6	2601.2	2458.1
15°	2826.0	2821.9	2830.0	2825.0	2809.9	2795.7	2779.5	2743.3	2711.1	2665.7	2511.5
17.5°	2864.2	2864.2	2889.5	2892.5	2878.3	2858.1	2835.1	2798.8	2771.5	2733.3	2575.0
20°	2953.9	2950.9	2983.2	2989.2	2955.0	2923.8	2889.5	2845.1	2823.9	2799.7	2637.6
22.5°	3108.1	3094.0	3113.2	3107.1	3039.7	2991.3	2949.0	2894.5	2883.4	2872.3	2707.0
25°	3308.6	3300.6	3313.8	3254.3	3135.4	3069.9	3019.5	2957.9	2957.9	2969.1	2785.6
27.5°	3600.0	3569.8	3525.4	3420.6	3242.3	3158.5	3104.2	3038.5	3055.8	3097.0	2889.5
30°	3898.3	3865.0	3763.2	3602.1	3372.1	3284.6	3221.1	3152.5	3192.8	3268.5	3028.5
32.5°	4192.6	4155.3	4011.2	3807.6	3558.6	3471.1	3409.4	3333.9	3401.4	3528.5	3232.1
35°	4477.8	4444.5	4278.3	4038.4	3806.6	3734.1	3677.7	3612.1	3698.7	3876.1	3519.4
37.5°	4798.2	4762.1	4559.4	4299.4	4107.9	4055.5	4014.2	3948.7	4099.9	4359.8	3919.5
40°	5192.4	5130.8	4857.8	4598.8	4456.6	4431.3	4403.2	4394.1	4629.0	4988.7	4452.5
42.5°	5643.8	5543.1	5170.1	4914.2	4839.6	4857.8	4850.7	4891.0	5291.1	5770.8	5101.7
45°	6095.4	5965.4	5517.8	5250.9	5260.8	5324.3	5363.7	5524.9	6120.5	6667.8	5800.0
47.5°	6478.3	6350.4	5851.5	5614.6	5735.6	5860.5	5967.4	6272.8	6973.3	7550.7	6343.3
50°	6805.9	6684.9	6205.2	6014.7	6286.9	6488.4	6661.8	7114.2	7890.4	8222.9	6724.3
52.5°	7074.0	6993.3	6572.1	6473.2	6916.8	7212.0	7466.1	8008.2	8702.6	8769.2	7020.6
55°	7335.0	7277.6	6966.1	7018.5	7656.6	8058.6	8380.1	8956.6	9402.1	9224.6	7304.7
57.5°	7635.4	7583.0	7415.6	7710.0	8629.1	9135.0	9485.7	9797.2	10017.9	9690.2	7572.8
60°	7941.7	7911.6	7915.5	8477.8	9745.7	10231.5	10425.0	10505.7	10622.5	10128.7	7588.0
62.5°	8234.0	8291.4	8486.9	9332.5	10815.1	11187.9	11285.6	11365.4	11228.3	10198.3	7010.6
65°	8728.8	8822.6	9289.3	10476.5	11991.1	12390.3	12491.1	12217.9	11324.0	9299.3	5702.4
67.5°	8970.7	9142.1	9974.5	11542.7	13132.1	13575.5	13538.1	12273.5	10161.9	7091.1	3659.4
69°	8920.3	9102.7	10132.7	11869.2	13511.0	13913.0	13676.2	11595.1	8657.2	5136.9	2246.4
70°	8720.7	8905.2	10051.1	11857.2	13559.3	13877.8	13420.3	10757.7	7319.8	3756.3	1404.9
72.5°	7282.6	7441.7	8923.4	10717.3	12491.1	12232.1	11227.2	7452.9	3566.7	1023.0	316.5
75°	4482.8	4571.6	6402.8	8073.7	9434.3	8769.2	7480.1	3707.8	1063.2	289.3	175.3
77.5°	2368.4	2408.7	3505.2	4759.0	5980.5	4948.5	3833.7	1446.2	489.8	181.4	127.0
80°	1399.9	1430.1	1887.7	2176.0	2588.0	2161.9	1532.9	888.0	350.7	113.8	112.8
82.5°	801.2	820.4	1368.7	1209.4	1019.9	870.7	762.9	841.5	210.7	76.5	116.9
85°	294.3	298.2	769.9	920.1	606.7	360.8	378.9	697.4	56.5	48.4	91.6
87.5°	137.1	134.0	396.2	563.3	354.8	228.8	295.4	153.3	22.2	31.3	25.2
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°	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6	2529.6
2.5°	2499.4	2462.2	2394.6	2325.1	2254.6	2200.0	2146.7	2104.4	2090.3	2064.0	2066.0
5°	2422.8	2354.3	2213.2	2070.1	1920.9	1798.0	1682.0	1588.4	1543.0	1496.7	1496.7
7.5°	2356.3	2256.5	2035.7	1803.0	1562.2	1359.6	1177.1	1040.1	964.5	904.1	903.1
10°	2331.1	2196.0	1887.7	1554.1	1218.6	942.3	725.7	586.6	515.0	468.6	466.6
12.5°	2342.2	2174.8	1773.9	1324.3	903.1	605.6	420.2	330.5	300.4	286.2	286.2
15°	2374.5	2168.9	1659.9	1099.5	637.9	378.9	279.2	254.9	253.0	253.0	253.0
17.5°	2413.7	2170.8	1543.0	880.9	434.4	271.1	240.8	237.8	239.8	239.8	239.8
20°	2454.1	2171.9	1416.9	678.3	306.4	235.9	226.7	225.7	227.8	227.8	228.8
22.5°	2503.4	2177.0	1291.0	507.0	253.0	222.7	215.7	215.7	216.8	216.8	215.7
25°	2559.9	2187.1	1160.0	375.9	230.8	213.6	207.6	206.6	207.6	206.6	205.6
27.5°	2630.4	2201.0	1013.8	294.3	220.8	204.6	199.6	199.6	198.5	197.5	196.5
30°	2719.1	2217.2	849.5	250.0	210.7	196.5	191.5	190.5	189.5	187.4	187.4
32.5°	2854.2	2252.5	687.4	226.7	199.6	185.4	181.4	181.4	179.4	177.3	176.3
35°	3061.9	2322.1	542.1	212.7	187.4	173.4	168.3	168.3	166.2	165.3	164.3
37.5°	3349.1	2427.8	421.2	199.6	175.3	160.3	155.1	154.1	152.3	150.1	149.2
40°	3731.0	2558.9	331.6	187.4	163.2	147.1	143.1	141.2	137.1	134.0	134.0
42.5°	4210.7	2708.0	269.1	174.4	149.2	135.0	132.1	128.9	121.9	118.9	117.9
45°	4712.6	2842.1	227.8	159.2	135.0	123.0	120.9	115.9	106.8	103.8	103.8
47.5°	5074.4	2873.3	200.5	145.2	121.9	109.9	108.9	99.8	91.6	89.7	88.8
50°	5300.2	2811.9	178.5	131.1	109.9	97.7	94.7	83.6	78.6	76.5	75.5
52.5°	5452.4	2702.0	160.3	118.9	98.8	86.6	79.6	71.5	67.6	65.4	65.4
55°	5574.3	2546.8	142.1	107.8	89.7	77.7	67.6	61.4	57.4	55.4	55.4
57.5°	5608.6	2336.1	124.0	98.8	80.6	68.5	57.4	53.4	48.4	47.4	47.4
60°	5359.6	1956.1	109.9	87.7	72.6	59.5	50.3	45.4	40.3	39.3	38.3
62.5°	4703.5	1513.7	96.7	77.7	63.5	51.5	43.4	37.3	33.2	33.2	33.2
65°	3587.9	1014.8	84.7	67.6	55.4	43.4	37.3	30.3	28.2	28.2	29.3
67.5°	2147.7	552.3	72.6	57.4	47.4	36.3	31.3	26.2	25.2	26.2	26.2
69°	1258.7	324.5	65.4	51.5	41.3	32.2	27.2	23.1	25.2	26.2	26.2
70°	777.0	218.6	60.5	46.4	37.3	29.3	25.2	22.2	24.2	25.2	25.2
72.5°	216.8	112.8	48.4	36.3	30.3	24.2	20.1	20.1	23.1	24.2	24.2
75°	141.2	83.6	37.3	27.2	23.1	19.1	17.2	19.1	22.2	23.1	23.1
77.5°	116.9	68.5	30.3	22.2	19.1	18.1	16.1	17.2	20.1	21.2	21.2
80°	106.8	48.4	24.2	20.1	17.2	16.1	15.1	14.2	18.1	19.1	19.1
82.5°	101.8	38.3	21.2	18.1	16.1	14.2	13.0	14.2	16.1	17.2	18.1
85°	63.5	25.2	19.1	17.2	14.2	13.0	13.0	13.0	15.1	16.1	16.1
87.5°	23.1	20.1	17.2	14.2	12.0	12.0	12.0	12.0	13.0	15.1	15.1
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)