

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: P322064

Luminaire Tested: **GAN-SA0D-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40162 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 640
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: 24 FT

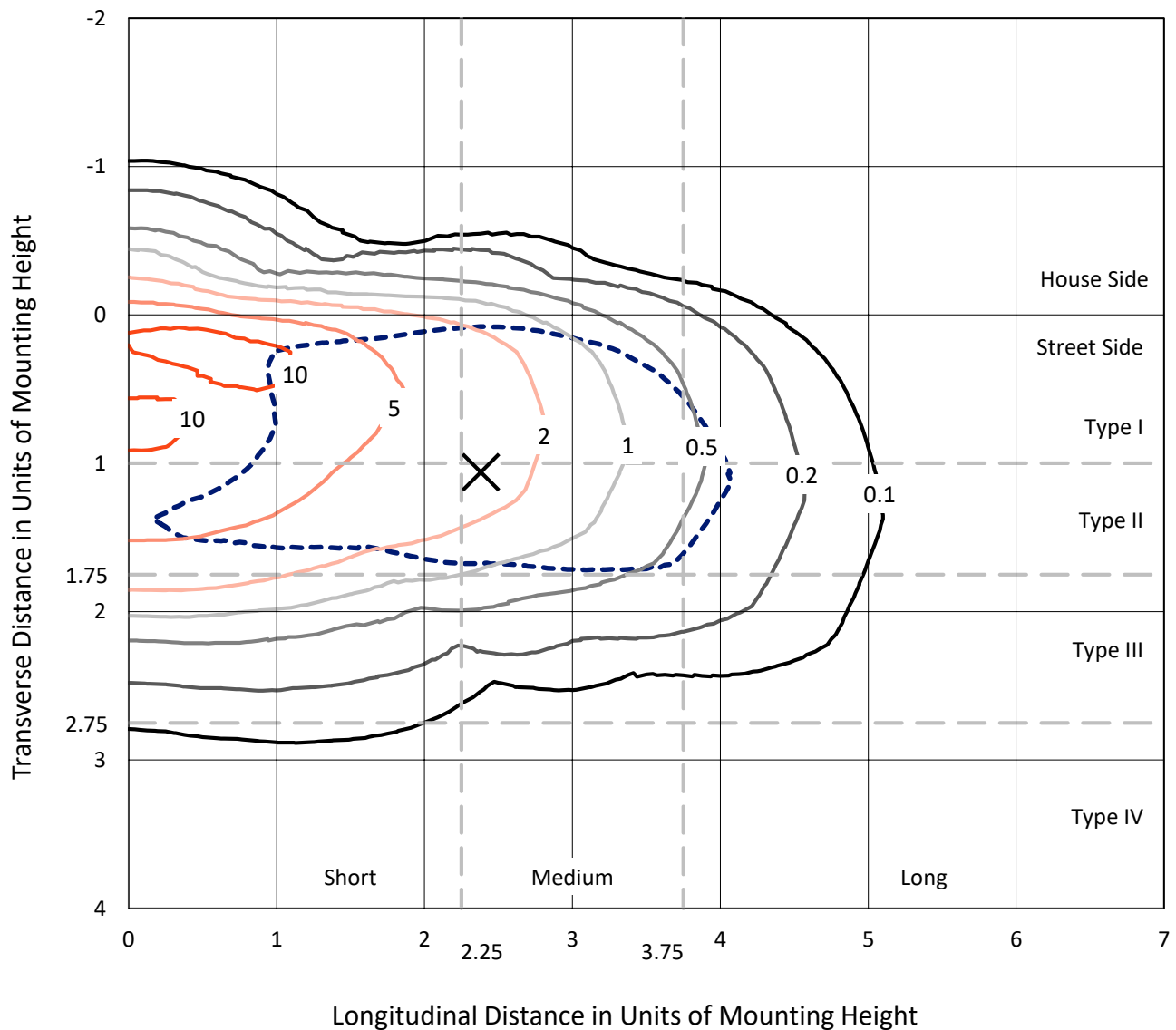


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Iso-Footcandle Lines of Horizontal Illumination

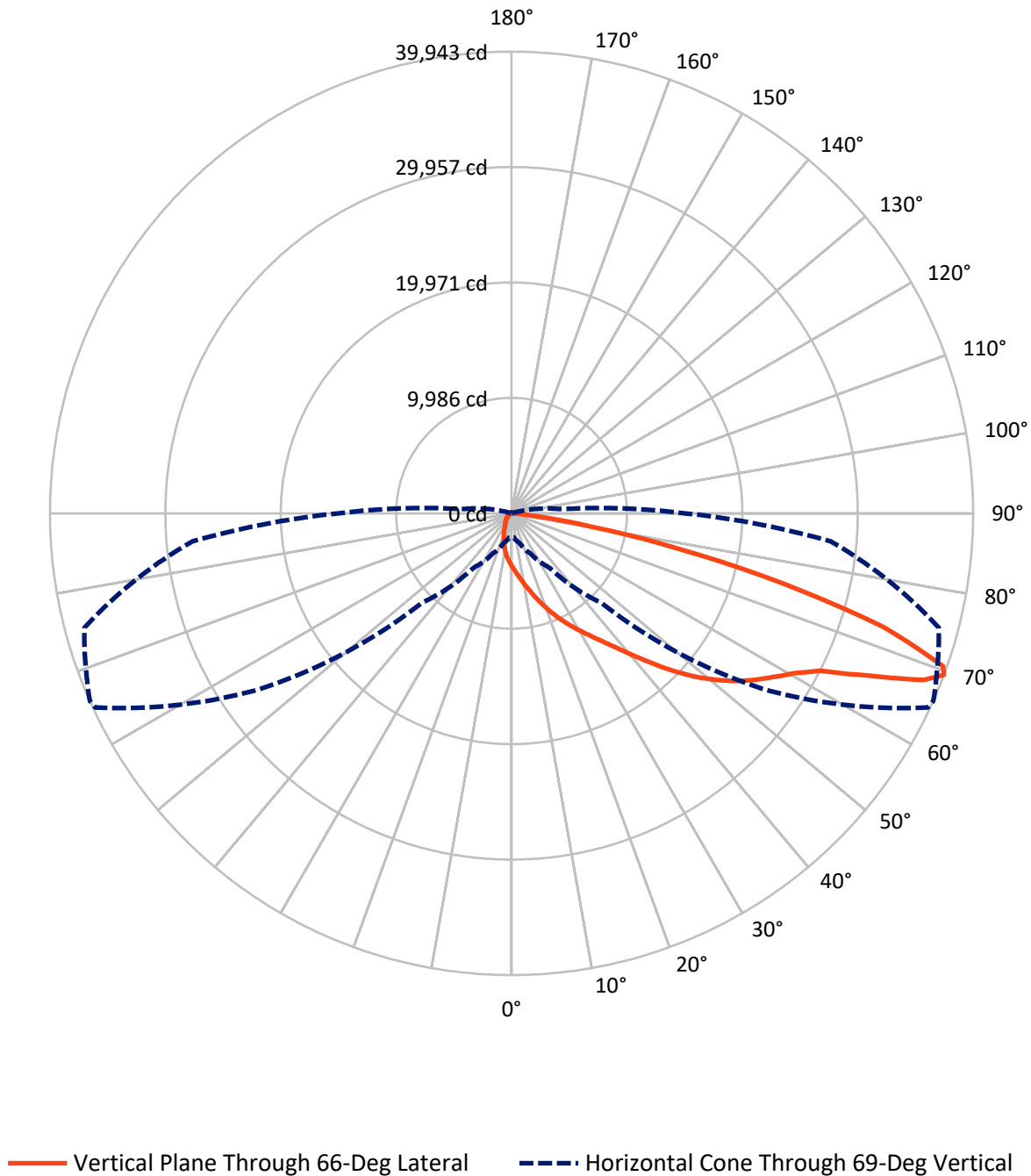
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2409.2	0.0	2409.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	37752.8	0.0	37752.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	40162.0	0.0	40162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	1.1
10°-20°	1314.9	3.3
20°-30°	2289.7	5.7
30°-40°	4017.3	10.0
40°-50°	6724.3	16.7
50°-60°	9884.1	24.6
60°-70°	10148.5	25.3
70°-80°	5010.0	12.5
80°-90°	331.3	0.8
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°	40162.0	100.0
0°-180°	40162.0	100.0

Coefficient of Utilization



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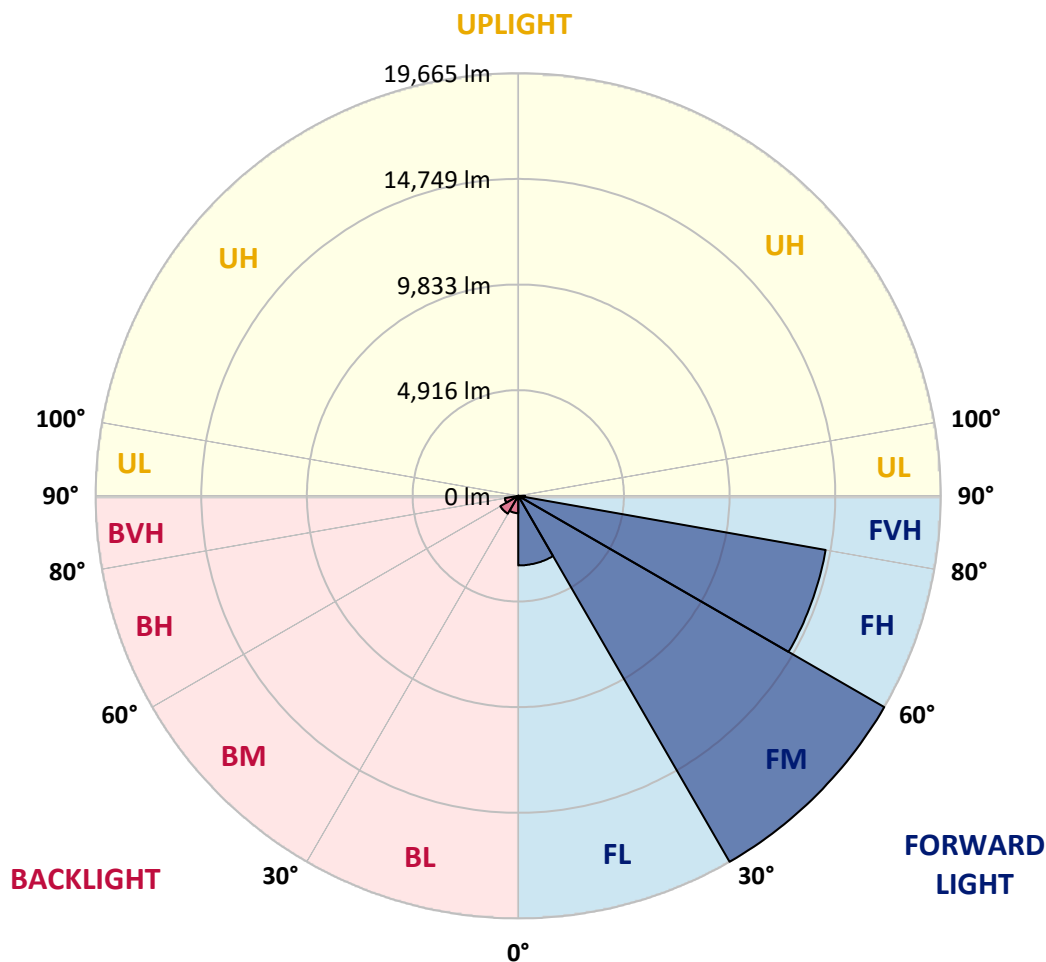
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3240.7	8.1			
FM	(30°-60°)	19665.2	49.0			
FH	(60°-80°)	14523.7	36.2			G5
FVH	(80°-90°)	323.3	0.8			G3/500
BL	(0°-30°)	805.7	2.0	B2/1000		
BM	(30°-60°)	960.5	2.4	B1/1000		
BH	(60°-80°)	634.9	1.6	B2/1000		G2/1000
BVH	(80°-90°)	8.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6
2.5°	5379.4	5356.5	5347.0	5305.0	5232.5	5177.2	5070.4	4946.4	4923.5	4803.3	4656.4
5°	6077.6	6058.5	6045.1	5986.0	5911.6	5772.3	5577.8	5347.0	5303.1	5074.2	4780.4
7.5°	6564.0	6598.3	6598.3	6560.2	6466.7	6361.8	6123.3	5808.6	5753.3	5402.3	4946.4
10°	6848.2	6890.2	6922.6	6955.0	6941.7	6899.7	6674.6	6319.8	6253.1	5787.6	5139.0
12.5°	6874.9	6916.9	7008.5	7143.9	7275.5	7370.9	7229.7	6886.4	6810.1	6234.0	5367.9
15°	6726.1	6770.0	6911.2	7174.4	7493.0	7771.5	7817.3	7514.0	7435.8	6766.2	5654.1
17.5°	6466.7	6495.3	6697.5	7061.9	7561.7	8072.9	8349.5	8187.3	8114.9	7374.7	5972.6
20°	6274.0	6295.0	6472.4	6863.5	7519.7	8261.7	8853.1	8902.7	8826.4	8027.1	6317.9
22.5°	6604.0	6642.2	6647.9	6833.0	7405.2	8355.2	9295.6	9606.6	9549.4	8719.6	6657.5
25°	7506.3	7550.2	7405.2	7290.8	7502.5	8397.2	9675.3	10327.6	10281.9	9465.4	6998.9
27.5°	8698.6	8744.4	8557.4	8216.0	8011.8	8555.5	10012.9	11060.2	11058.2	10255.2	7367.1
30°	9869.8	9915.6	9724.8	9383.4	8914.1	9003.8	10304.8	11827.0	11838.4	11069.7	7758.1
32.5°	11098.3	11155.5	10959.1	10520.3	10030.1	9778.3	10714.9	12597.7	12662.5	12013.9	8198.8
35°	12494.7	12502.3	12225.7	11766.0	11201.3	10814.1	11373.0	13461.8	13616.3	13183.3	8757.7
37.5°	13864.3	13919.6	13692.6	12967.7	12448.9	12010.1	12351.6	14541.5	14760.9	14612.1	9488.3
40°	14879.1	14995.5	14963.1	14181.0	13688.8	13376.0	13566.7	15825.3	16103.8	16275.5	10409.7
42.5°	15516.3	15604.0	15752.8	15281.6	14835.3	14886.8	15001.2	17320.8	17664.2	18171.6	11468.4
45°	16246.9	16288.8	16412.8	16204.9	15903.5	16422.4	16523.5	19005.2	19365.8	20210.8	12643.4
47.5°	17139.6	17238.8	17273.1	17082.4	16945.0	17780.6	17990.4	20537.0	21042.5	22395.0	13887.2
50°	18276.5	18303.2	18362.4	18238.4	18101.0	18948.0	19306.6	22145.1	22604.8	24586.8	15113.8
52.5°	19388.7	19484.0	19690.1	19611.8	19556.5	19941.9	20479.8	23594.9	24108.0	26414.3	16338.4
55°	19709.1	19791.2	20502.7	20989.1	21439.3	21166.5	21601.4	24893.9	25449.0	28047.2	17517.3
57.5°	18429.1	18595.1	19827.4	21094.0	22961.6	23070.3	23142.8	26227.3	26725.2	29298.5	18743.9
60°	15193.9	15226.3	17248.3	19421.1	22709.8	24731.8	25393.7	27659.9	28077.7	30464.1	20212.7
62.5°	9663.8	9993.8	12212.3	15279.7	20046.8	24491.4	28115.8	29826.9	29979.5	31862.3	22318.7
65°	4603.0	4816.6	6415.2	9440.6	14520.5	21414.5	29994.8	33747.0	33815.7	34634.0	25132.4
67.5°	2548.5	2651.5	3412.7	5081.8	8488.7	15144.3	29235.6	38390.1	38454.9	37464.9	27600.8
69°	1993.4	2081.2	2680.2	3830.4	5755.2	10884.7	26456.2	39750.2	39942.8	38275.6	27688.5
70°	1692.0	1777.9	2308.2	3235.3	4627.8	8410.5	23549.1	39412.5	39616.6	38199.3	27034.2
72.5°	1035.8	1085.4	1537.5	2277.7	3101.7	4231.0	14522.4	33331.2	33676.4	35040.4	23234.3
75°	698.2	724.9	961.4	1571.8	2218.5	2178.5	7544.5	23493.8	24241.5	27257.4	17160.6
77.5°	499.8	524.6	644.8	1016.7	1554.7	1438.3	3416.5	14600.6	14760.9	16348.0	9358.6
80°	284.2	307.1	455.9	604.7	1054.9	959.5	1358.2	6974.1	7054.2	7010.4	3124.6
82.5°	148.8	167.9	249.9	398.7	677.2	627.6	564.6	2334.9	2346.3	1951.5	684.8
85°	28.6	34.3	124.0	272.8	349.1	272.8	230.8	547.5	558.9	494.1	169.8
87.5°	0.0	1.9	49.6	61.0	68.7	70.6	74.4	106.8	114.5	154.5	45.8
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°	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6	4570.6
2.5°	4591.5	4522.9	4391.3	4238.6	4120.4	4004.0	3912.4	3817.1	3782.7	3765.6	3763.7
5°	4637.3	4492.4	4213.8	3927.7	3693.1	3471.8	3313.5	3162.8	3092.2	3059.8	3046.4
7.5°	4713.6	4480.9	4032.6	3595.8	3258.1	2981.5	2762.2	2598.1	2516.1	2481.8	2468.4
10°	4803.3	4465.6	3820.9	3244.8	2813.7	2527.5	2310.1	2147.9	2058.3	2020.1	2001.1
12.5°	4908.2	4438.9	3576.7	2890.0	2434.1	2147.9	1884.7	1684.4	1581.4	1537.5	1516.5
15°	5037.9	4412.2	3321.1	2556.2	2100.2	1751.2	1463.1	1327.7	1306.7	1299.1	1301.0
17.5°	5165.7	4370.3	3042.6	2226.1	1749.3	1367.7	1220.9	1213.2	1217.0	1217.0	1217.0
20°	5280.2	4274.9	2739.3	1943.8	1415.4	1154.1	1123.6	1110.2	1100.7	1093.0	1083.5
22.5°	5369.8	4147.1	2447.4	1663.4	1156.0	1056.8	1009.1	967.1	932.8	909.9	898.5
25°	5430.9	3977.3	2180.4	1394.4	1039.6	961.4	875.6	805.0	751.6	719.2	705.8
27.5°	5476.7	3794.2	1941.9	1167.4	959.5	850.8	738.2	654.3	599.0	570.4	558.9
30°	5509.1	3586.3	1732.1	1026.3	869.9	734.4	614.2	532.2	492.2	476.9	469.3
32.5°	5539.6	3355.4	1533.7	959.5	785.9	627.6	515.0	452.1	427.3	408.2	402.5
35°	5615.9	3141.8	1344.8	888.9	700.1	536.0	442.6	396.8	372.0	360.5	356.7
37.5°	5797.1	2983.5	1163.6	816.4	614.2	463.5	387.2	354.8	331.9	320.5	316.7
40°	6089.0	2903.3	1011.0	738.2	530.3	408.2	351.0	320.5	295.7	278.5	274.7
42.5°	6518.2	2914.8	904.2	660.0	463.5	364.3	316.7	280.4	253.7	238.4	234.6
45°	7039.0	2998.7	829.8	583.7	408.2	330.0	278.5	240.4	215.6	202.2	198.4
47.5°	7603.6	3134.2	768.8	515.0	364.3	297.6	240.4	200.3	179.3	167.9	166.0
50°	8198.8	3265.8	705.8	448.3	326.2	265.2	202.2	166.0	148.8	139.3	135.4
52.5°	8801.6	3418.4	648.6	387.2	293.8	227.0	167.9	135.4	122.1	114.5	110.6
55°	9450.2	3532.8	593.3	339.5	261.3	192.7	139.3	112.5	101.1	91.6	89.7
57.5°	10213.2	3710.2	536.0	293.8	223.2	160.2	114.5	89.7	80.1	70.6	68.7
60°	11243.3	3918.2	475.0	259.4	183.1	131.6	93.5	72.5	61.0	53.4	51.5
62.5°	12601.5	4149.0	398.7	227.0	148.8	106.8	74.4	57.2	43.9	34.3	34.3
65°	14324.0	4524.8	326.2	190.8	122.1	87.7	57.2	42.0	24.8	15.3	15.3
67.5°	15329.3	4589.6	263.2	156.4	99.2	74.4	47.7	28.6	7.6	1.9	0.0
69°	15006.9	4213.8	223.2	133.5	85.8	70.6	43.9	21.0	3.8	0.0	0.0
70°	14400.3	3853.3	196.5	118.3	78.2	66.8	42.0	15.3	3.8	0.0	0.0
72.5°	11899.5	2743.1	148.8	87.7	57.2	59.1	38.2	9.5	3.8	0.0	0.0
75°	8668.0	1667.2	106.8	61.0	36.2	43.9	26.7	3.8	1.9	0.0	0.0
77.5°	4822.4	785.9	66.8	34.3	22.9	26.7	13.4	0.0	0.0	0.0	0.0
80°	1566.1	213.6	30.5	19.1	13.4	15.3	5.7	0.0	0.0	0.0	0.0
82.5°	290.0	61.0	17.2	9.5	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	63.0	24.8	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)