

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: P322012

Luminaire Tested: **GAN-SA8C-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322012
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-SA8C-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA 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: 40326 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 445
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

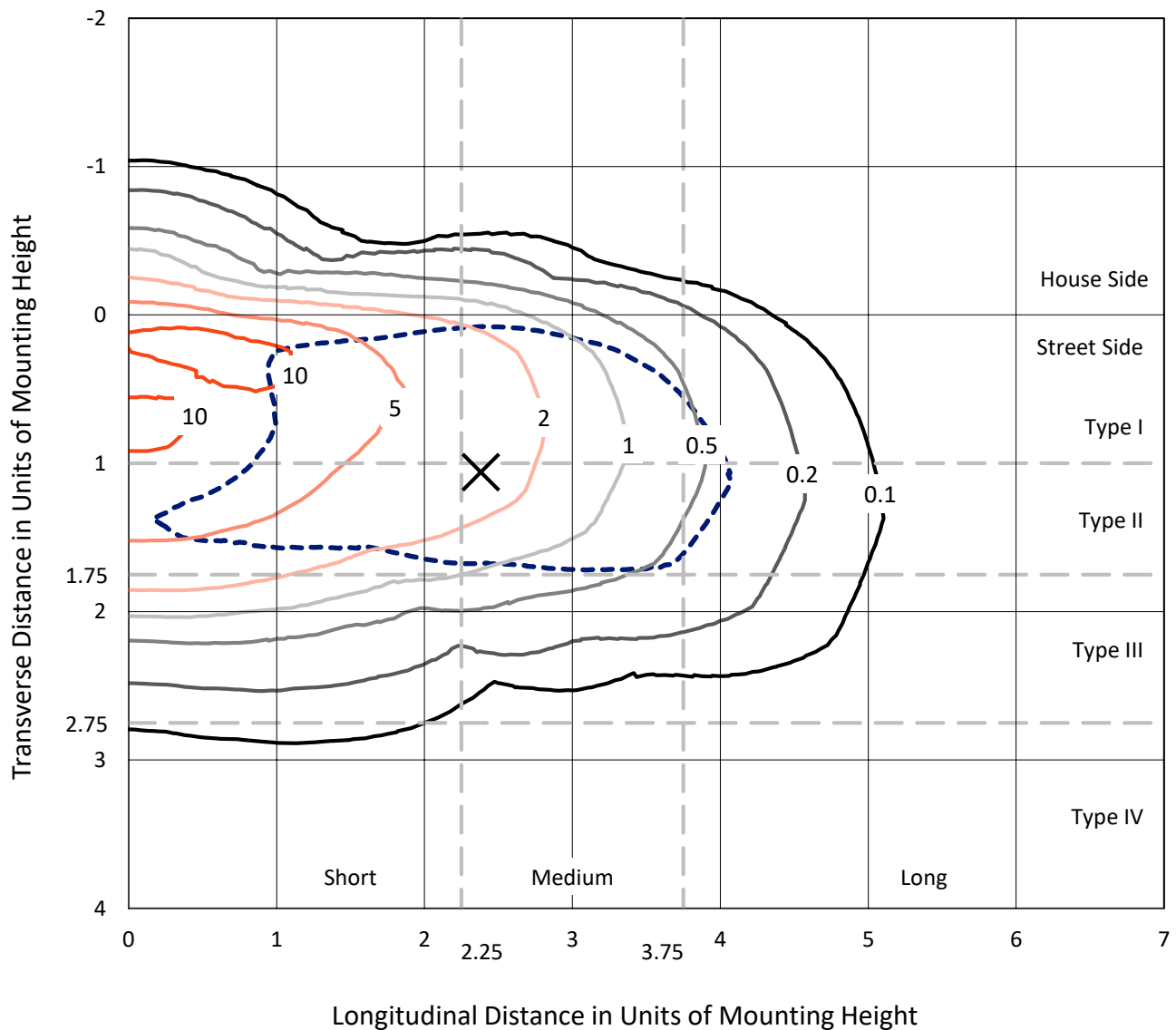


REPORT NUMBER: P322012

CATALOG NUMBER: GAN-SA8C-760-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

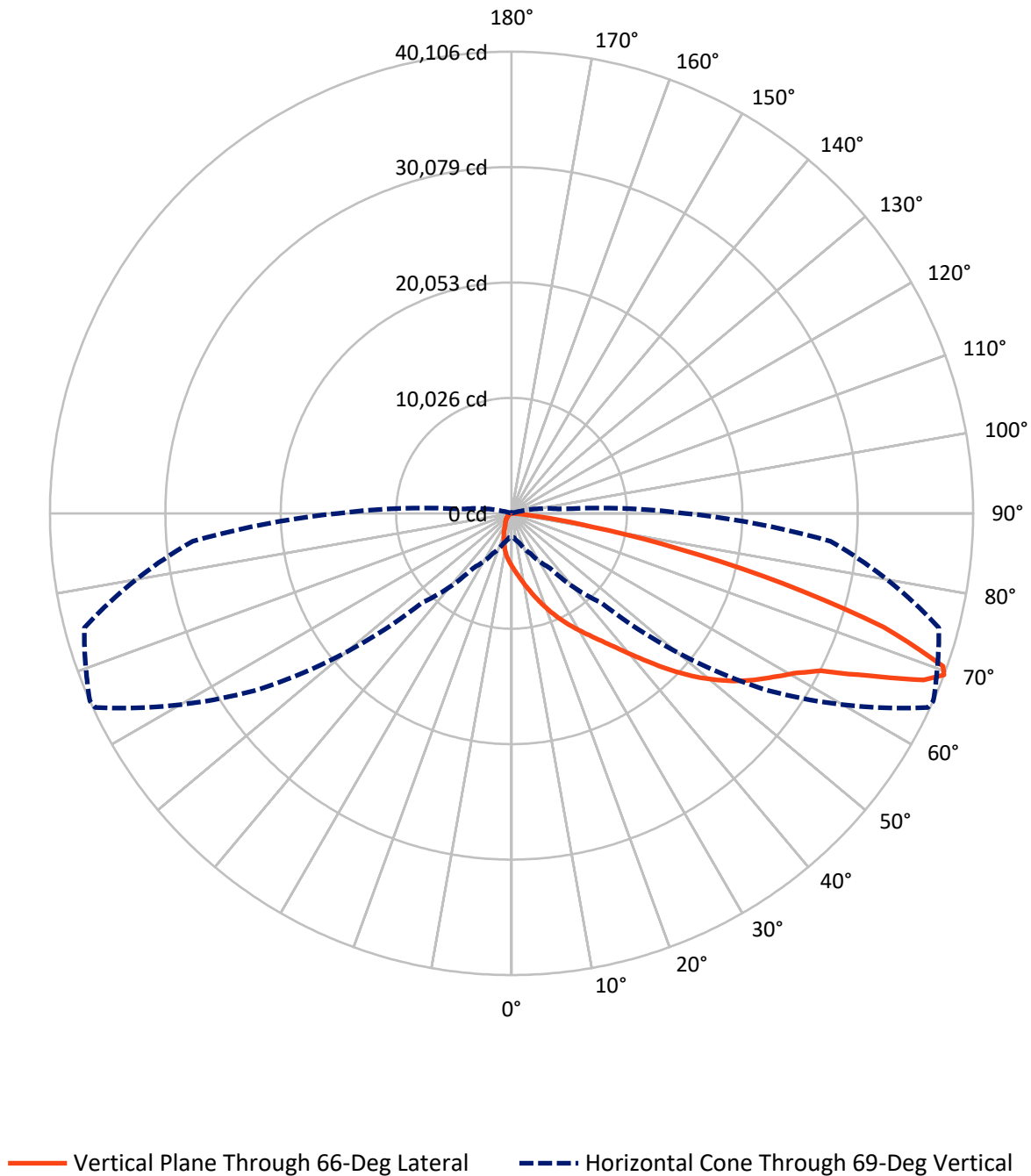
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P322012
CATALOG NUMBER: GAN-SA8C-760-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322012

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2419.0	0.0	2419.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	37907.0	0.0	37907.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	40326.0	0.0	40326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.6	1.1
10°-20°	1320.3	3.3
20°-30°	2299.1	5.7
30°-40°	4033.7	10.0
40°-50°	6751.8	16.7
50°-60°	9924.5	24.6
60°-70°	10190.0	25.3
70°-80°	5030.5	12.5
80°-90°	332.6	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°	40326.0	100.0
0°-180°	40326.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322012

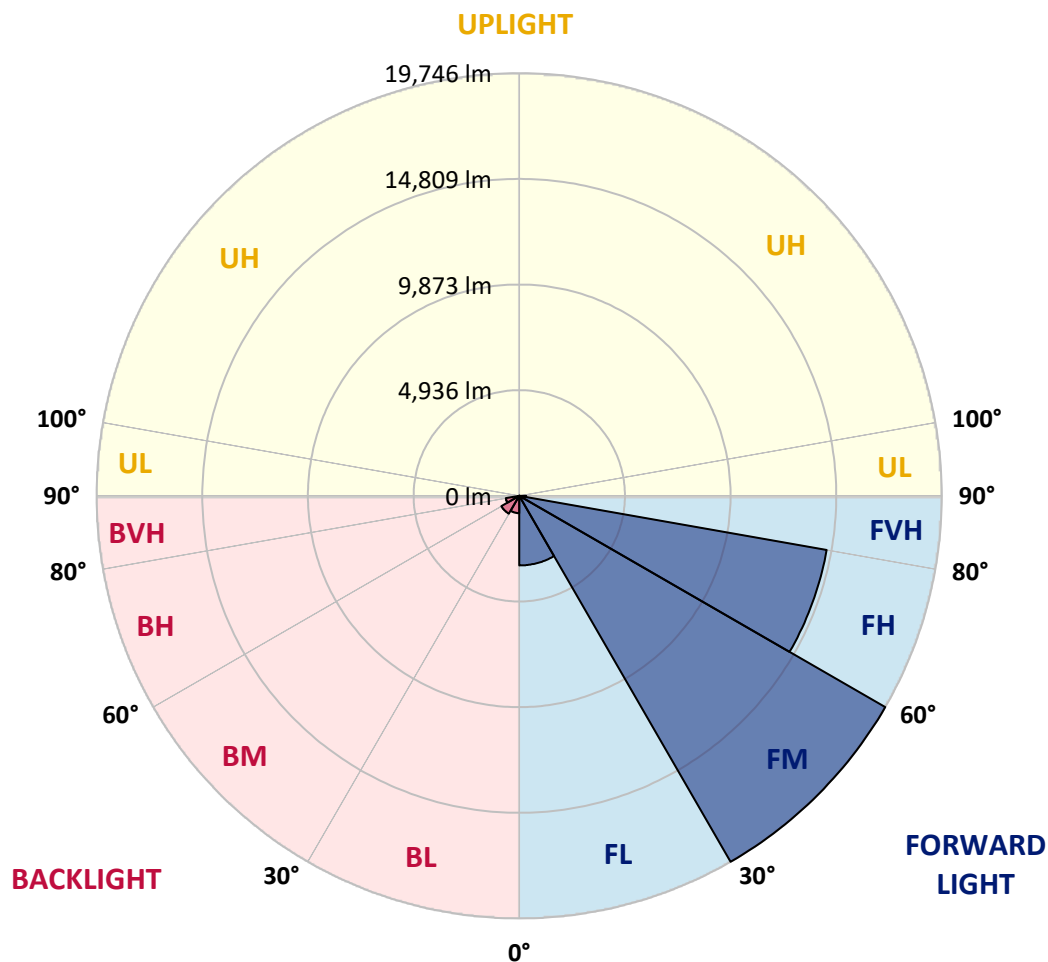
CATALOG NUMBER: GAN-SA8C-760-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3253.9	8.1			
FM	(30°-60°)	19745.5	49.0			
FH	(60°-80°)	14583.0	36.2			G5
FVH	(80°-90°)	324.6	0.8			G3/500
BL	(0°-30°)	809.0	2.0	B2/1000		
BM	(30°-60°)	964.5	2.4	B1/1000		
BH	(60°-80°)	637.5	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





REPORT NUMBER: P322012

CATALOG NUMBER: GAN-SA8C-760-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2
2.5°	5401.3	5378.4	5368.8	5326.6	5253.9	5198.3	5091.1	4966.6	4943.6	4822.9	4675.4
5°	6102.4	6083.2	6069.8	6010.4	5935.7	5795.9	5600.5	5368.8	5324.7	5094.9	4799.9
7.5°	6590.8	6625.3	6625.3	6587.0	6493.1	6387.8	6148.3	5832.3	5776.8	5424.3	4966.6
10°	6876.2	6918.3	6950.9	6983.4	6970.0	6927.9	6701.9	6345.6	6278.6	5811.2	5160.0
12.5°	6903.0	6945.1	7037.1	7173.1	7305.2	7401.0	7259.3	6914.5	6837.9	6259.4	5389.9
15°	6753.6	6797.7	6939.4	7203.7	7523.6	7803.2	7849.2	7544.6	7466.1	6793.8	5677.2
17.5°	6493.1	6521.8	6724.9	7090.7	7592.5	8105.8	8383.6	8220.8	8148.0	7404.8	5997.0
20°	6299.7	6320.7	6498.9	6891.5	7550.4	8295.5	8889.2	8939.0	8862.4	8059.9	6343.7
22.5°	6631.0	6669.3	6675.1	6860.9	7435.5	8389.3	9333.6	9645.8	9588.3	8755.2	6684.6
25°	7537.0	7581.0	7435.5	7320.5	7533.2	8431.5	9714.8	10369.8	10323.8	9504.1	7027.5
27.5°	8734.1	8780.1	8592.4	8249.5	8044.6	8590.4	10053.8	11105.3	11103.4	10297.0	7397.2
30°	9910.1	9956.1	9764.6	9421.7	8950.5	9040.5	10346.8	11875.3	11886.8	11114.9	7789.8
32.5°	11143.6	11201.1	11003.8	10563.3	10071.0	9818.2	10758.6	12649.1	12714.2	12063.0	8232.3
35°	12545.7	12553.3	12275.6	11814.0	11247.1	10858.2	11419.4	13516.8	13671.9	13237.1	8793.5
37.5°	13920.9	13976.5	13748.5	13020.7	12499.7	12059.2	12402.0	14600.9	14821.1	14671.7	9527.1
40°	14939.9	15056.7	15024.2	14238.9	13744.7	13430.6	13622.1	15889.9	16169.6	16341.9	10452.2
42.5°	15579.6	15667.7	15817.1	15344.0	14895.8	14947.6	15062.5	17391.6	17736.3	18245.8	11515.2
45°	16313.2	16355.4	16479.8	16271.1	15968.4	16489.4	16590.9	19082.8	19444.8	20293.4	12695.1
47.5°	17209.6	17309.2	17343.7	17152.1	17014.2	17853.2	18063.9	20620.9	21128.5	22486.5	13943.9
50°	18351.2	18378.0	18437.4	18312.9	18175.0	19025.4	19385.5	22235.5	22697.1	24687.2	15175.5
52.5°	19467.8	19563.6	19770.5	19691.9	19636.4	20023.3	20563.4	23691.2	24206.5	26522.1	16405.2
55°	19789.6	19872.0	20586.4	21074.8	21526.9	21253.0	21689.7	24995.6	25553.0	28161.7	17588.8
57.5°	18504.4	18671.0	19908.4	21180.2	23055.3	23164.5	23237.3	26334.4	26834.3	29418.2	18820.4
60°	15255.9	15288.5	17318.8	19500.4	22802.5	24832.8	25497.4	27772.9	28192.3	30588.5	20295.3
62.5°	9703.3	10034.6	12262.2	15342.1	20128.6	24591.4	28230.6	29948.7	30102.0	31992.4	22409.8
65°	4621.8	4836.3	6441.4	9479.2	14579.8	21502.0	30117.3	33884.8	33953.8	34775.5	25235.0
67.5°	2558.9	2662.4	3426.6	5102.5	8523.4	15206.1	29355.0	38546.8	38612.0	37617.9	27713.5
69°	2001.6	2089.7	2691.1	3846.1	5778.7	10929.1	26564.3	39912.5	40105.9	38431.9	27801.6
70°	1698.9	1785.1	2317.6	3248.5	4646.7	8444.9	23645.3	39573.5	39778.4	38355.3	27144.6
72.5°	1040.0	1089.8	1543.8	2287.0	3114.4	4248.3	14581.7	33467.3	33814.0	35183.4	23329.2
75°	701.0	727.8	965.3	1578.3	2227.6	2187.4	7575.3	23589.7	24340.5	27368.7	17230.7
77.5°	501.8	526.7	647.4	1020.9	1561.0	1444.2	3430.4	14660.2	14821.1	16414.7	9396.8
80°	285.4	308.4	457.8	607.2	1059.2	963.4	1363.7	7002.6	7083.0	7039.0	3137.4
82.5°	149.4	168.6	250.9	400.3	680.0	630.2	566.9	2344.4	2355.9	1959.4	687.6
85°	28.7	34.5	124.5	273.9	350.5	273.9	231.8	549.7	561.2	496.1	170.5
87.5°	0.0	1.9	49.8	61.3	69.0	70.9	74.7	107.3	114.9	155.1	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322012

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2
2.5°	4610.3	4541.3	4409.2	4256.0	4137.2	4020.4	3928.4	3832.7	3798.2	3780.9	3779.0
5°	4656.3	4510.7	4231.1	3943.7	3708.2	3486.0	3327.0	3175.7	3104.8	3072.3	3058.8
7.5°	4732.9	4499.2	4049.1	3610.5	3271.5	2993.7	2773.5	2608.7	2526.4	2491.9	2478.5
10°	4822.9	4483.9	3836.5	3258.0	2825.2	2537.9	2319.5	2156.7	2066.7	2028.4	2009.2
12.5°	4928.2	4457.1	3591.3	2901.8	2444.0	2156.7	1892.4	1691.3	1587.8	1543.8	1522.7
15°	5058.5	4430.3	3334.7	2566.6	2108.8	1758.3	1469.1	1333.1	1312.0	1304.4	1306.3
17.5°	5186.8	4388.1	3055.0	2235.2	1756.4	1373.3	1225.8	1218.2	1222.0	1222.0	1222.0
20°	5301.7	4292.3	2750.5	1951.8	1421.2	1158.8	1128.2	1114.7	1105.2	1097.5	1087.9
22.5°	5391.8	4164.0	2457.4	1670.2	1160.7	1061.1	1013.2	971.1	936.6	913.6	902.1
25°	5453.1	3993.5	2189.3	1400.1	1043.9	965.3	879.2	808.3	754.7	722.1	708.7
27.5°	5499.0	3809.7	1949.8	1172.2	963.4	854.3	741.2	657.0	601.4	572.7	561.2
30°	5531.6	3600.9	1739.2	1030.5	873.4	737.4	616.7	534.4	494.2	478.8	471.2
32.5°	5562.2	3369.1	1540.0	963.4	789.1	630.2	517.2	453.9	429.0	409.9	404.1
35°	5638.9	3154.6	1350.3	892.6	702.9	538.2	444.4	398.4	373.5	362.0	358.2
37.5°	5820.8	2995.6	1168.4	819.8	616.7	465.4	388.8	356.3	333.3	321.8	318.0
40°	6113.9	2915.2	1015.1	741.2	532.5	409.9	352.4	321.8	296.9	279.6	275.8
42.5°	6544.8	2926.7	907.9	662.7	465.4	365.8	318.0	281.6	254.7	239.4	235.6
45°	7067.7	3011.0	833.2	586.1	409.9	331.4	279.6	241.3	216.4	203.0	199.2
47.5°	7634.7	3147.0	771.9	517.2	365.8	298.8	241.3	201.1	180.0	168.6	166.6
50°	8232.3	3279.1	708.7	450.1	327.5	266.2	203.0	166.6	149.4	139.8	136.0
52.5°	8837.5	3432.3	651.2	388.8	295.0	227.9	168.6	136.0	122.6	114.9	111.1
55°	9488.7	3547.3	595.7	340.9	262.4	193.5	139.8	113.0	101.5	91.9	90.0
57.5°	10254.9	3725.4	538.2	295.0	224.1	160.9	114.9	90.0	80.4	70.9	69.0
60°	11289.2	3934.2	476.9	260.5	183.9	132.2	93.9	72.8	61.3	53.6	51.7
62.5°	12652.9	4165.9	400.3	227.9	149.4	107.3	74.7	57.5	44.1	34.5	34.5
65°	14382.5	4543.3	327.5	191.5	122.6	88.1	57.5	42.1	24.9	15.3	15.3
67.5°	15391.9	4608.4	264.3	157.1	99.6	74.7	47.9	28.7	7.7	1.9	0.0
69°	15068.2	4231.1	224.1	134.1	86.2	70.9	44.1	21.1	3.8	0.0	0.0
70°	14459.1	3869.0	197.3	118.8	78.5	67.0	42.1	15.3	3.8	0.0	0.0
72.5°	11948.1	2754.3	149.4	88.1	57.5	59.4	38.3	9.6	3.8	0.0	0.0
75°	8703.4	1674.0	107.3	61.3	36.4	44.1	26.8	3.8	1.9	0.0	0.0
77.5°	4842.1	789.1	67.0	34.5	23.0	26.8	13.4	0.0	0.0	0.0	0.0
80°	1572.5	214.5	30.6	19.2	13.4	15.3	5.7	0.0	0.0	0.0	0.0
82.5°	291.1	61.3	17.2	9.6	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	63.2	24.9	9.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.1	7.7	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)