

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: P321841

Luminaire Tested: **GAN-SA7B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321841
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-SA7B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 24049 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 295
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

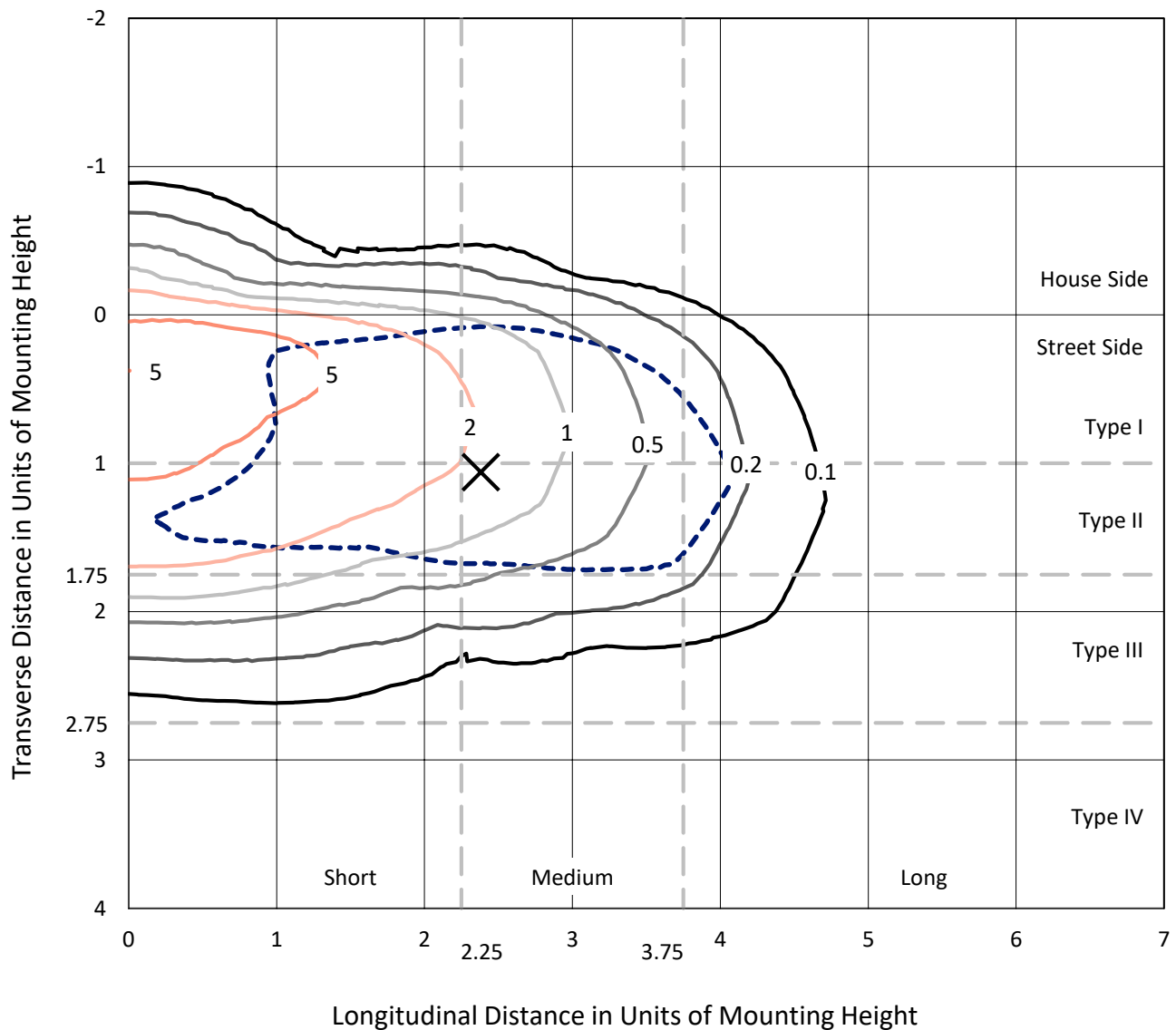


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Iso-Footcandle Lines of Horizontal Illumination

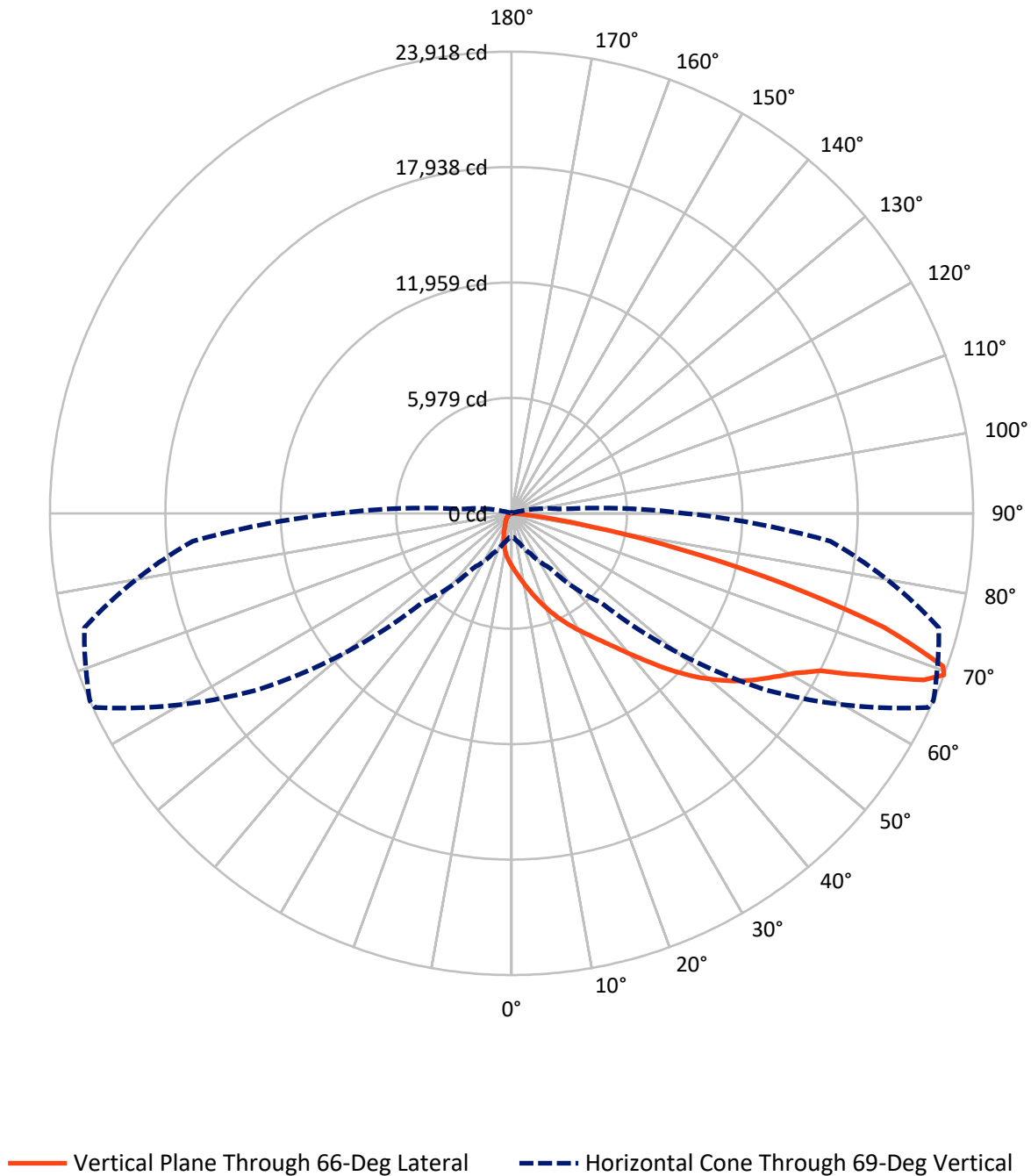
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1442.6	0.0	1442.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	22606.4	0.0	22606.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	24049.0	0.0	24049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	1.1
10°-20°	787.4	3.3
20°-30°	1371.1	5.7
30°-40°	2405.6	10.0
40°-50°	4026.5	16.7
50°-60°	5918.6	24.6
60°-70°	6076.9	25.3
70°-80°	3000.0	12.5
80°-90°	198.4	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°	24049.0	100.0
0°-180°	24049.0	100.0

Coefficient of Utilization



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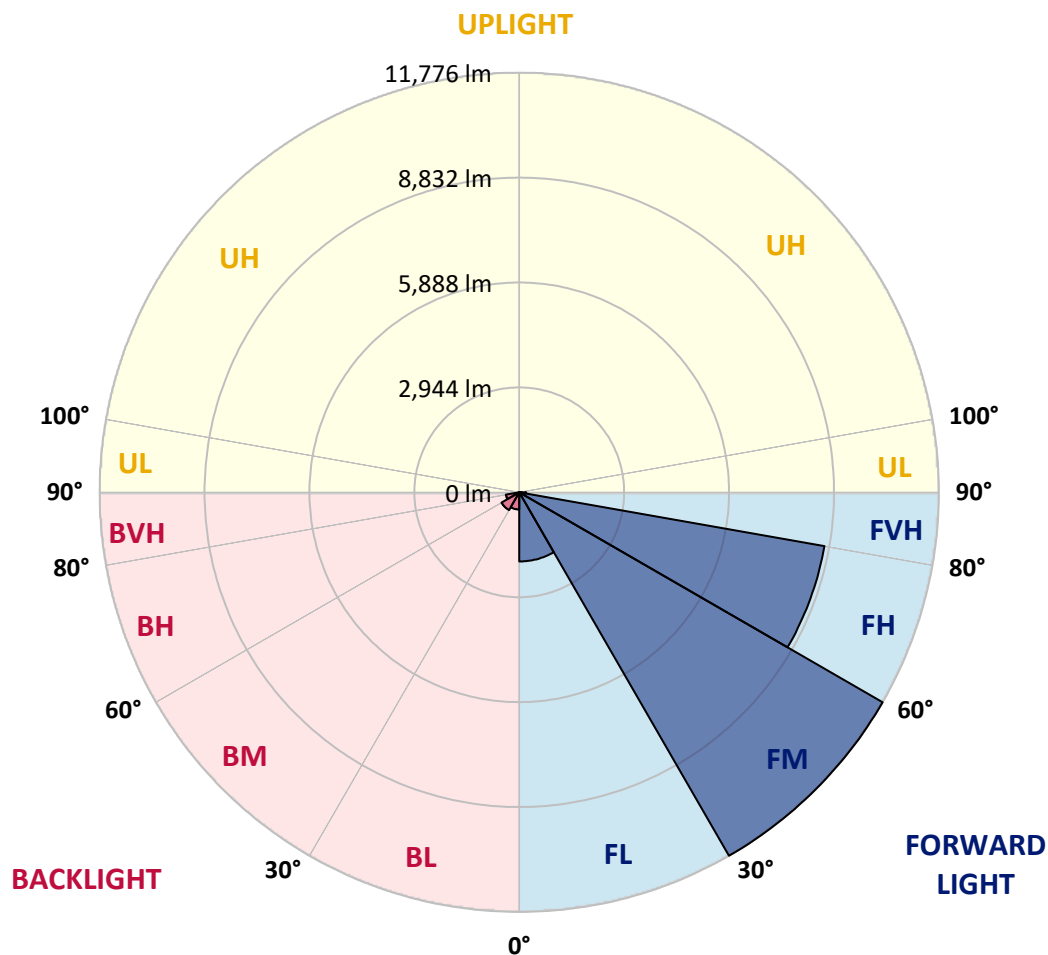
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1940.5	8.1			
FM	(30°-60°)	11775.5	49.0			
FH	(60°-80°)	8696.8	36.2			G4/12000
FVH	(80°-90°)	193.6	0.8			G2/225
BL	(0°-30°)	482.5	2.0	B1/500		
BM	(30°-60°)	575.2	2.4	B1/1000		
BH	(60°-80°)	380.2	1.6	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9
2.5°	3221.2	3207.5	3201.8	3176.6	3133.2	3100.1	3036.1	2961.9	2948.2	2876.2	2788.3
5°	3639.2	3627.8	3619.8	3584.4	3539.9	3456.5	3340.0	3201.8	3175.5	3038.4	2862.5
7.5°	3930.5	3951.1	3951.1	3928.2	3872.3	3809.4	3666.7	3478.2	3445.1	3234.9	2961.9
10°	4100.7	4125.8	4145.3	4164.7	4156.7	4131.6	3996.8	3784.3	3744.3	3465.6	3077.2
12.5°	4116.7	4141.8	4196.7	4277.8	4356.6	4413.7	4329.2	4123.6	4077.9	3732.9	3214.3
15°	4027.6	4053.9	4138.4	4296.0	4486.8	4653.6	4681.0	4499.4	4452.5	4051.6	3385.7
17.5°	3872.3	3889.4	4010.5	4228.6	4527.9	4834.0	4999.7	4902.6	4859.2	4416.0	3576.4
20°	3756.9	3769.5	3875.7	4109.8	4502.8	4947.1	5301.2	5330.9	5285.2	4806.6	3783.2
22.5°	3954.5	3977.3	3980.8	4091.6	4434.3	5003.1	5566.2	5752.4	5718.2	5221.3	3986.5
25°	4494.8	4521.1	4434.3	4365.7	4492.5	5028.2	5793.5	6184.2	6156.8	5667.9	4190.9
27.5°	5208.7	5236.1	5124.2	4919.7	4797.5	5123.0	5995.7	6622.8	6621.7	6140.8	4411.4
30°	5910.0	5937.5	5823.2	5618.8	5337.8	5391.5	6170.5	7082.0	7088.9	6628.5	4645.6
32.5°	6645.7	6679.9	6562.3	6299.6	6006.0	5855.2	6416.1	7543.5	7582.3	7193.9	4909.4
35°	7481.8	7486.4	7320.7	7045.5	6707.3	6475.5	6810.2	8060.9	8153.4	7894.2	5244.1
37.5°	8301.9	8335.1	8199.1	7765.1	7454.4	7191.7	7396.1	8707.4	8838.8	8749.7	5681.6
40°	8909.6	8979.3	8959.9	8491.6	8196.9	8009.5	8123.7	9476.2	9643.0	9745.8	6233.3
42.5°	9291.1	9343.7	9432.8	9150.6	8883.4	8914.2	8982.7	10371.7	10577.3	10881.2	6867.3
45°	9728.6	9753.8	9828.0	9703.5	9523.0	9833.7	9894.3	11380.3	11596.2	12102.2	7570.9
47.5°	10263.2	10322.6	10343.2	10228.9	10146.7	10647.0	10772.6	12297.6	12600.3	13410.1	8315.6
50°	10944.0	10960.0	10995.4	10921.1	10838.9	11346.1	11560.8	13260.5	13535.8	14722.6	9050.1
52.5°	11609.9	11667.0	11790.4	11743.6	11710.4	11941.2	12263.3	14128.6	14435.9	15816.9	9783.5
55°	11801.8	11850.9	12277.0	12568.3	12837.9	12674.5	12934.9	14906.5	15238.9	16794.6	10489.4
57.5°	11035.4	11134.7	11872.6	12631.1	13749.4	13814.5	13857.9	15704.9	16003.1	17544.0	11223.8
60°	9098.1	9117.5	10328.3	11629.3	13598.6	14809.4	15205.8	16562.8	16812.9	18241.9	12103.4
62.5°	5786.7	5984.3	7312.7	9149.5	12004.0	14665.5	16835.8	17860.4	17951.7	19079.2	13364.4
65°	2756.3	2884.2	3841.4	5653.0	8694.9	12823.0	17960.9	20207.7	20248.8	20738.9	15049.3
67.5°	1526.1	1587.7	2043.5	3043.0	5083.1	9068.4	17506.3	22988.0	23026.8	22434.0	16527.4
69°	1193.7	1246.2	1604.9	2293.7	3446.2	6517.7	15842.0	23802.4	23917.8	22919.4	16579.9
70°	1013.2	1064.6	1382.1	1937.3	2771.1	5036.2	14101.2	23600.2	23722.4	22873.7	16188.1
72.5°	620.2	649.9	920.7	1363.9	1857.3	2533.5	8696.0	19958.7	20165.4	20982.2	13912.7
75°	418.1	434.1	575.7	941.2	1328.4	1304.5	4517.6	14068.1	14515.8	16321.7	10275.8
77.5°	299.3	314.1	386.1	608.8	930.9	861.3	2045.8	8742.9	8838.8	9789.2	5603.9
80°	170.2	183.9	273.0	362.1	631.7	574.6	813.3	4176.1	4224.1	4197.8	1871.0
82.5°	89.1	100.5	149.6	238.7	405.5	375.8	338.1	1398.1	1405.0	1168.5	410.1
85°	17.1	20.6	74.2	163.3	209.0	163.3	138.2	327.8	334.7	295.8	101.7
87.5°	0.0	1.1	29.7	36.6	41.1	42.3	44.5	64.0	68.5	92.5	27.4
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°	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9	2736.9
2.5°	2749.4	2708.3	2629.5	2538.1	2467.3	2397.6	2342.8	2285.7	2265.1	2254.8	2253.7
5°	2776.8	2690.0	2523.3	2351.9	2211.4	2078.9	1984.1	1893.9	1851.6	1832.2	1824.2
7.5°	2822.5	2683.2	2414.7	2153.2	1951.0	1785.4	1654.0	1555.8	1506.6	1486.1	1478.1
10°	2876.2	2674.0	2287.9	1943.0	1684.8	1513.5	1383.3	1286.2	1232.5	1209.7	1198.2
12.5°	2939.0	2658.0	2141.7	1730.5	1457.5	1286.2	1128.6	1008.6	946.9	920.7	908.1
15°	3016.7	2642.0	1988.7	1530.6	1257.6	1048.6	876.1	795.0	782.4	777.9	779.0
17.5°	3093.2	2616.9	1821.9	1333.0	1047.5	819.0	731.0	726.5	728.8	728.8	728.8
20°	3161.8	2559.8	1640.3	1164.0	847.6	691.1	672.8	664.8	659.1	654.5	648.8
22.5°	3215.5	2483.3	1465.5	996.1	692.2	632.8	604.3	579.1	558.6	544.9	538.0
25°	3252.0	2381.6	1305.6	835.0	622.5	575.7	524.3	482.0	450.1	430.6	422.6
27.5°	3279.4	2272.0	1162.8	699.1	574.6	509.4	442.1	391.8	358.7	341.5	334.7
30°	3298.8	2147.4	1037.2	614.5	520.9	439.8	367.8	318.7	294.7	285.6	281.0
32.5°	3317.1	2009.2	918.4	574.6	470.6	375.8	308.4	270.7	255.9	244.4	241.0
35°	3362.8	1881.3	805.3	532.3	419.2	321.0	265.0	237.6	222.7	215.9	213.6
37.5°	3471.3	1786.5	696.8	488.9	367.8	277.6	231.9	212.5	198.8	191.9	189.6
40°	3646.1	1738.5	605.4	442.1	317.5	244.4	210.2	191.9	177.1	166.8	164.5
42.5°	3903.1	1745.4	541.4	395.2	277.6	218.2	189.6	167.9	151.9	142.8	140.5
45°	4214.9	1795.6	496.9	349.5	244.4	197.6	166.8	143.9	129.1	121.1	118.8
47.5°	4553.0	1876.7	460.3	308.4	218.2	178.2	143.9	119.9	107.4	100.5	99.4
50°	4909.4	1955.5	422.6	268.4	195.3	158.8	121.1	99.4	89.1	83.4	81.1
52.5°	5270.4	2046.9	388.4	231.9	175.9	135.9	100.5	81.1	73.1	68.5	66.3
55°	5658.8	2115.5	355.2	203.3	156.5	115.4	83.4	67.4	60.5	54.8	53.7
57.5°	6115.7	2221.7	321.0	175.9	133.6	95.9	68.5	53.7	48.0	42.3	41.1
60°	6732.5	2346.2	284.4	155.3	109.7	78.8	56.0	43.4	36.6	32.0	30.8
62.5°	7545.8	2484.4	238.7	135.9	89.1	64.0	44.5	34.3	26.3	20.6	20.6
65°	8577.2	2709.4	195.3	114.2	73.1	52.5	34.3	25.1	14.8	9.1	9.1
67.5°	9179.2	2748.3	157.6	93.7	59.4	44.5	28.6	17.1	4.6	1.1	0.0
69°	8986.2	2523.3	133.6	80.0	51.4	42.3	26.3	12.6	2.3	0.0	0.0
70°	8622.9	2307.4	117.7	70.8	46.8	40.0	25.1	9.1	2.3	0.0	0.0
72.5°	7125.4	1642.6	89.1	52.5	34.3	35.4	22.8	5.7	2.3	0.0	0.0
75°	5190.4	998.3	64.0	36.6	21.7	26.3	16.0	2.3	1.1	0.0	0.0
77.5°	2887.6	470.6	40.0	20.6	13.7	16.0	8.0	0.0	0.0	0.0	0.0
80°	937.8	127.9	18.3	11.4	8.0	9.1	3.4	0.0	0.0	0.0	0.0
82.5°	173.6	36.6	10.3	5.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	37.7	14.8	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	4.6	1.1	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)