

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: P321834

Luminaire Tested: **GAN-SA0A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321834
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-SA0A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 27441 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 323
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

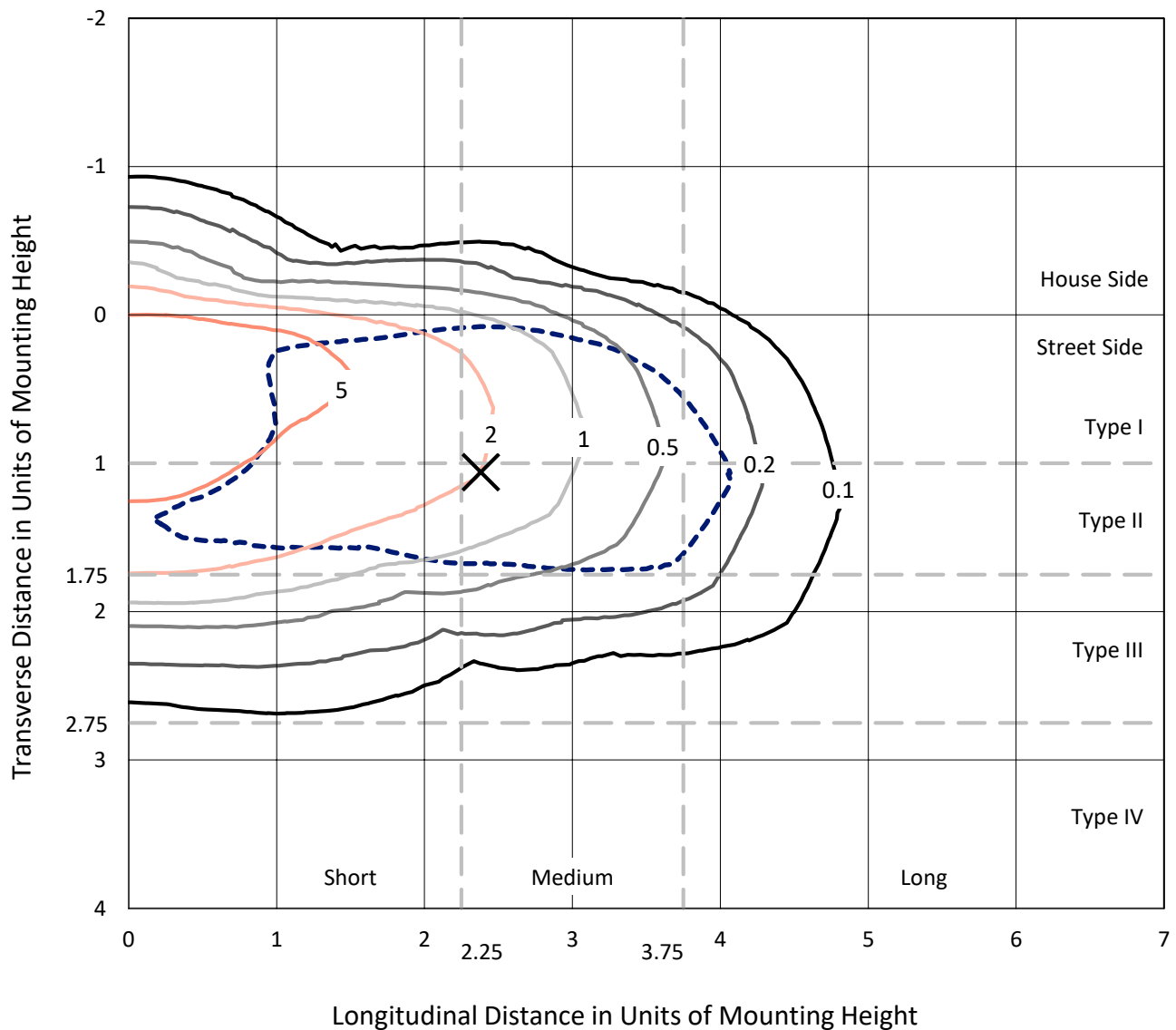


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Iso-Footcandle Lines of Horizontal Illumination

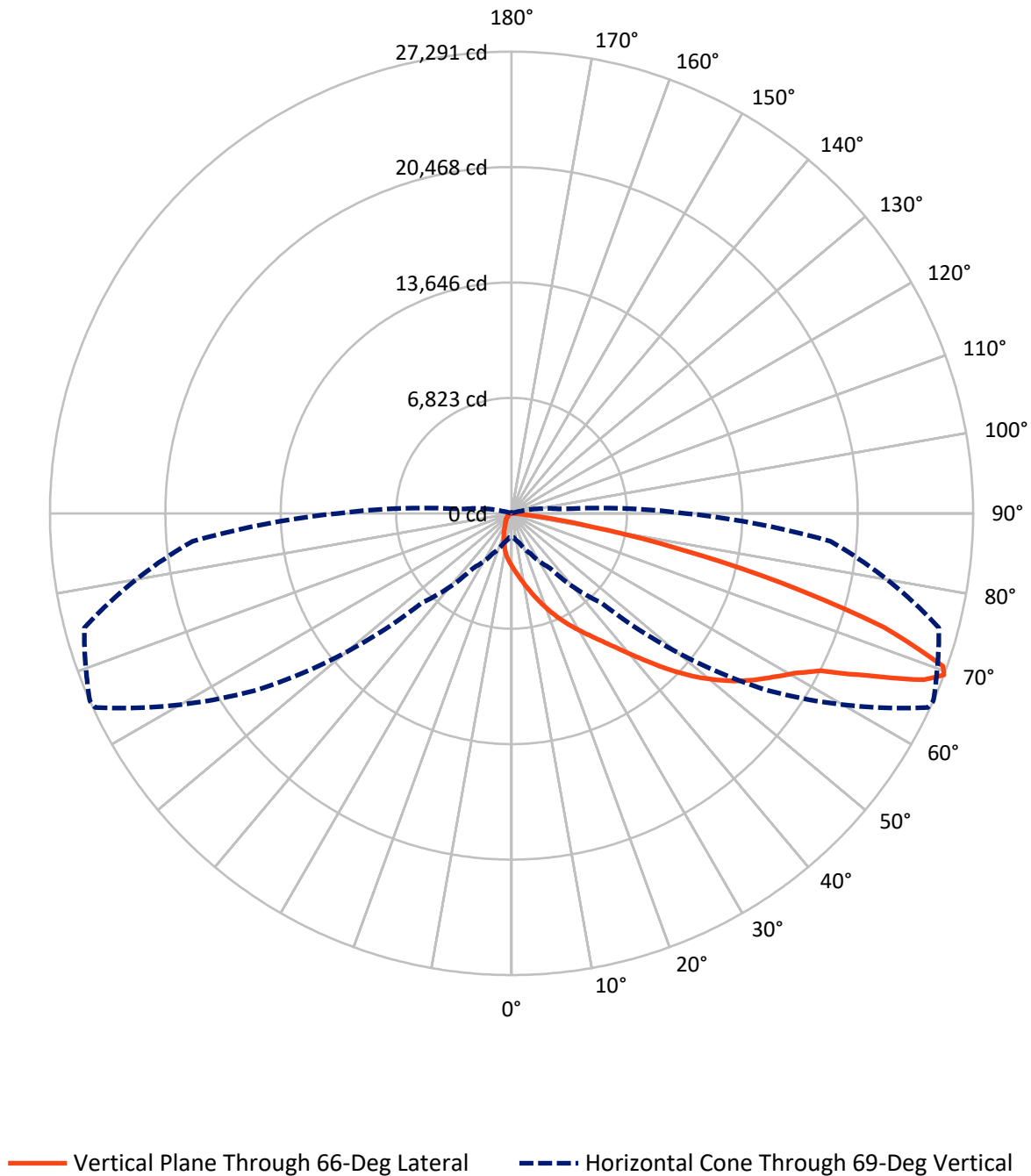
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	1646.1	0.0	1646.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25794.9	0.0	25794.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	27441.0	0.0	27441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.9	1.1
10°-20°	898.4	3.3
20°-30°	1564.5	5.7
30°-40°	2744.8	10.0
40°-50°	4594.5	16.7
50°-60°	6753.4	24.6
60°-70°	6934.1	25.3
70°-80°	3423.1	12.5
80°-90°	226.3	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°	27441.0	100.0
0°-180°	27441.0	100.0

Coefficient of Utilization



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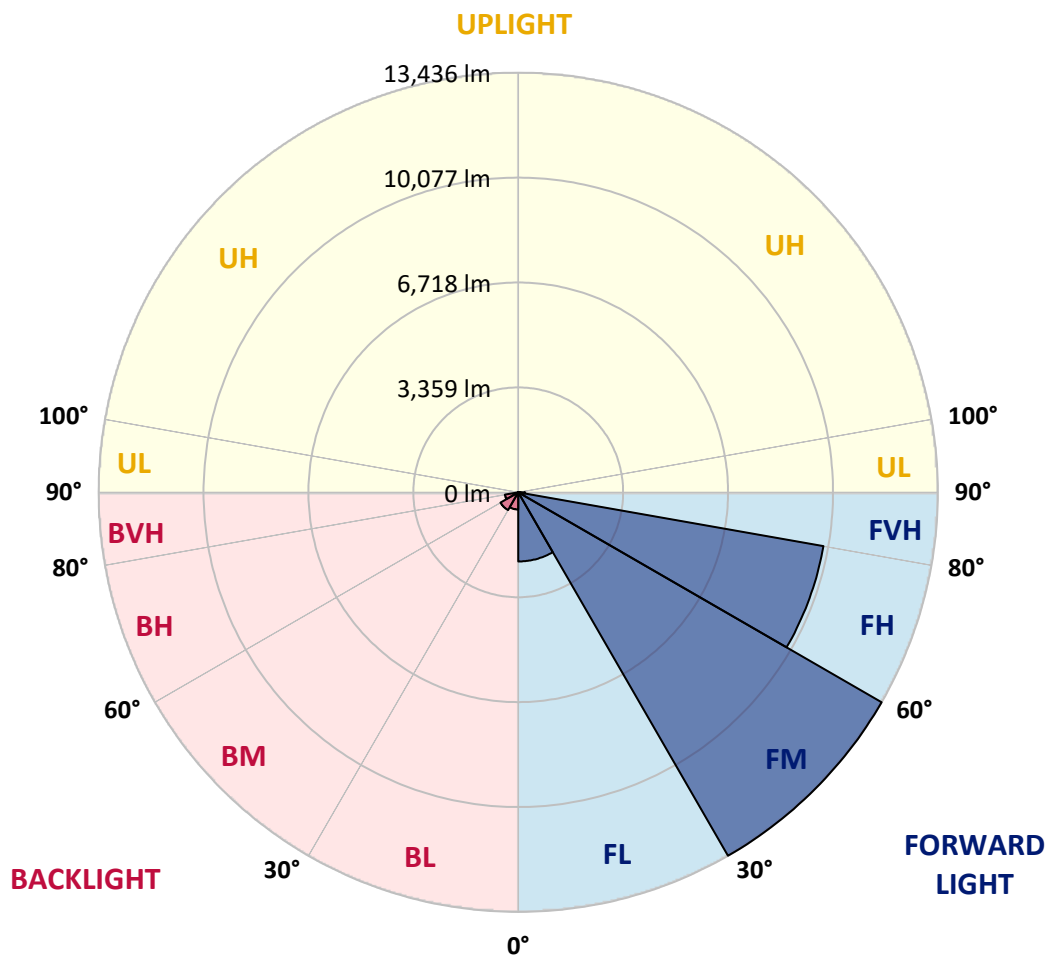
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2214.2	8.1			
FM	(30°-60°)	13436.4	49.0			
FH	(60°-80°)	9923.4	36.2			G4/12000
FVH	(80°-90°)	220.9	0.8			G2/225
BL	(0°-30°)	550.5	2.0	B2/1000		
BM	(30°-60°)	656.3	2.4	B1/1000		
BH	(60°-80°)	433.8	1.6	B1/500		G1/500
BVH	(80°-90°)	5.5	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9
2.5°	3675.5	3659.9	3653.3	3624.7	3575.1	3537.3	3464.4	3379.6	3364.0	3281.9	3181.5
5°	4152.5	4139.5	4130.4	4090.0	4039.1	3944.0	3811.1	3653.3	3623.4	3467.0	3266.2
7.5°	4484.9	4508.4	4508.4	4482.3	4418.4	4346.7	4183.8	3968.8	3931.0	3691.1	3379.6
10°	4679.1	4707.8	4729.9	4752.1	4743.0	4714.3	4560.5	4318.1	4272.4	3954.4	3511.3
12.5°	4697.3	4726.0	4788.6	4881.1	4971.1	5036.2	4939.8	4705.2	4653.0	4259.4	3667.7
15°	4595.7	4625.7	4722.1	4902.0	5119.6	5309.9	5341.2	5134.0	5080.5	4623.1	3863.2
17.5°	4418.4	4438.0	4576.1	4825.1	5166.6	5515.9	5704.8	5594.1	5544.5	5038.8	4080.9
20°	4286.8	4301.1	4422.3	4689.5	5137.9	5644.9	6048.9	6082.8	6030.7	5484.6	4316.8
22.5°	4512.3	4538.3	4542.2	4668.7	5059.7	5708.8	6351.3	6563.8	6524.7	5957.7	4548.8
25°	5128.8	5158.7	5059.7	4981.5	5126.2	5737.4	6610.7	7056.4	7025.2	6467.3	4782.1
27.5°	5943.4	5974.6	5846.9	5613.6	5474.2	5845.6	6841.4	7556.9	7555.6	7006.9	5033.6
30°	6743.6	6774.9	6644.6	6411.3	6090.6	6151.9	7040.8	8080.9	8088.7	7563.5	5300.8
32.5°	7583.0	7622.1	7487.9	7188.1	6853.1	6681.1	7321.0	8607.5	8651.8	8208.6	5601.9
35°	8537.1	8542.3	8353.3	8039.2	7653.4	7388.8	7770.7	9197.9	9303.5	9007.6	5983.8
37.5°	9472.9	9510.7	9355.6	8860.3	8505.8	8206.0	8439.3	9935.6	10085.5	9983.8	6483.0
40°	10166.3	10245.8	10223.6	9689.3	9353.0	9139.2	9269.6	10812.8	11003.0	11120.4	7112.5
42.5°	10601.6	10661.6	10763.2	10441.3	10136.3	10171.5	10249.7	11834.6	12069.2	12415.9	7835.9
45°	11100.8	11129.5	11214.2	11072.1	10866.2	11220.7	11289.8	12985.5	13231.8	13809.2	8638.7
47.5°	11710.8	11778.6	11802.0	11671.7	11577.8	12148.7	12292.1	14032.1	14377.5	15301.6	9488.5
50°	12487.6	12505.8	12546.2	12461.5	12367.7	12946.4	13191.4	15130.8	15444.9	16799.1	10326.6
52.5°	13247.5	13312.6	13453.4	13399.9	13362.1	13625.4	13993.0	16121.4	16472.0	18047.8	11163.4
55°	13466.4	13522.5	14008.6	14341.0	14648.6	14462.2	14759.4	17009.0	17388.3	19163.4	11968.8
57.5°	12591.9	12705.2	13547.2	14412.7	15688.7	15763.0	15812.5	17920.0	18260.2	20018.5	12806.9
60°	10381.3	10403.5	11785.1	13269.6	15516.6	16898.2	17350.5	18898.9	19184.3	20814.8	13810.5
62.5°	6602.9	6828.4	8344.2	10440.0	13697.1	16734.0	19210.4	20379.5	20483.8	21770.2	15249.4
65°	3145.0	3291.0	4383.2	6450.4	9921.3	14631.6	20494.2	23057.9	23104.8	23664.0	17171.9
67.5°	1741.3	1811.7	2331.7	3472.2	5800.0	10347.5	19975.4	26230.3	26274.6	25598.2	18858.5
69°	1362.0	1422.0	1831.2	2617.2	3932.3	7437.0	18076.4	27159.6	27291.3	26152.1	18918.4
70°	1156.1	1214.7	1577.1	2210.5	3162.0	5746.6	16090.1	26928.9	27068.4	26100.0	18471.4
72.5°	707.7	741.6	1050.5	1556.2	2119.3	2890.9	9922.6	22773.8	23009.7	23941.6	15875.0
75°	477.0	495.3	656.9	1074.0	1515.8	1488.4	5154.8	16052.3	16563.2	18623.9	11725.1
77.5°	341.5	358.4	440.5	694.7	1062.2	982.7	2334.3	9976.0	10085.5	11169.9	6394.3
80°	194.2	209.8	311.5	413.2	720.8	655.6	928.0	4765.1	4819.9	4789.9	2134.9
82.5°	101.7	114.7	170.7	272.4	462.7	428.8	385.8	1595.3	1603.1	1333.3	467.9
85°	19.6	23.5	84.7	186.4	238.5	186.4	157.7	374.1	381.9	337.6	116.0
87.5°	0.0	1.3	33.9	41.7	46.9	48.2	50.8	73.0	78.2	105.6	31.3
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°	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9	3122.9
2.5°	3137.2	3090.3	3000.4	2896.1	2815.3	2735.8	2673.2	2608.0	2584.6	2572.9	2571.5
5°	3168.5	3069.4	2879.1	2683.6	2523.3	2372.1	2264.0	2161.0	2112.8	2090.6	2081.5
7.5°	3220.6	3061.6	2755.3	2456.9	2226.2	2037.2	1887.3	1775.2	1719.1	1695.7	1686.6
10°	3281.9	3051.2	2610.6	2217.0	1922.5	1727.0	1578.4	1467.6	1406.3	1380.3	1367.2
12.5°	3353.6	3032.9	2443.8	1974.6	1663.1	1467.6	1287.7	1150.9	1080.5	1050.5	1036.2
15°	3442.2	3014.7	2269.2	1746.5	1435.0	1196.5	999.7	907.1	892.8	887.6	888.9
17.5°	3529.5	2986.0	2078.9	1521.0	1195.2	934.5	834.2	828.9	831.5	831.5	831.5
20°	3607.7	2920.9	1871.6	1328.1	967.1	788.5	767.7	758.6	752.0	746.8	740.3
22.5°	3669.0	2833.5	1672.2	1136.5	789.8	722.1	689.5	660.8	637.3	621.7	613.9
25°	3710.7	2717.5	1489.8	952.8	710.3	656.9	598.2	550.0	513.5	491.4	482.2
27.5°	3742.0	2592.4	1326.8	797.7	655.6	581.3	504.4	447.1	409.3	389.7	381.9
30°	3764.1	2450.3	1183.5	701.2	594.3	501.8	419.7	363.6	336.3	325.8	320.6
32.5°	3785.0	2292.6	1047.9	655.6	537.0	428.8	351.9	308.9	292.0	278.9	275.0
35°	3837.1	2146.6	918.9	607.4	478.3	366.2	302.4	271.1	254.2	246.3	243.7
37.5°	3960.9	2038.5	795.1	557.8	419.7	316.7	264.6	242.4	226.8	219.0	216.4
40°	4160.4	1983.7	690.8	504.4	362.3	278.9	239.8	219.0	202.0	190.3	187.7
42.5°	4453.6	1991.5	617.8	451.0	316.7	248.9	216.4	191.6	173.3	162.9	160.3
45°	4809.4	2048.9	567.0	398.8	278.9	225.5	190.3	164.2	147.3	138.2	135.6
47.5°	5195.2	2141.4	525.3	351.9	248.9	203.3	164.2	136.9	122.5	114.7	113.4
50°	5601.9	2231.4	482.2	306.3	222.9	181.2	138.2	113.4	101.7	95.1	92.5
52.5°	6013.7	2335.6	443.1	264.6	200.7	155.1	114.7	92.5	83.4	78.2	75.6
55°	6456.9	2413.8	405.3	232.0	178.6	131.6	95.1	76.9	69.1	62.6	61.3
57.5°	6978.2	2535.1	366.2	200.7	152.5	109.5	78.2	61.3	54.7	48.2	46.9
60°	7682.1	2677.1	324.5	177.3	125.1	89.9	63.9	49.5	41.7	36.5	35.2
62.5°	8610.1	2834.8	272.4	155.1	101.7	73.0	50.8	39.1	30.0	23.5	23.5
65°	9787.0	3091.6	222.9	130.3	83.4	60.0	39.1	28.7	16.9	10.4	10.4
67.5°	10473.9	3135.9	179.9	106.9	67.8	50.8	32.6	19.6	5.2	1.3	0.0
69°	10253.6	2879.1	152.5	91.2	58.7	48.2	30.0	14.3	2.6	0.0	0.0
70°	9839.1	2632.8	134.2	80.8	53.4	45.6	28.7	10.4	2.6	0.0	0.0
72.5°	8130.4	1874.2	101.7	60.0	39.1	40.4	26.1	6.5	2.6	0.0	0.0
75°	5922.5	1139.1	73.0	41.7	24.8	30.0	18.2	2.6	1.3	0.0	0.0
77.5°	3294.9	537.0	45.6	23.5	15.6	18.2	9.1	0.0	0.0	0.0	0.0
80°	1070.1	146.0	20.9	13.0	9.1	10.4	3.9	0.0	0.0	0.0	0.0
82.5°	198.1	41.7	11.7	6.5	2.6	2.6	0.0	0.0	0.0	0.0	0.0
85°	43.0	16.9	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	5.2	1.3	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)