

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: P323693

Luminaire Tested: **GAN-SA9C-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42927 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

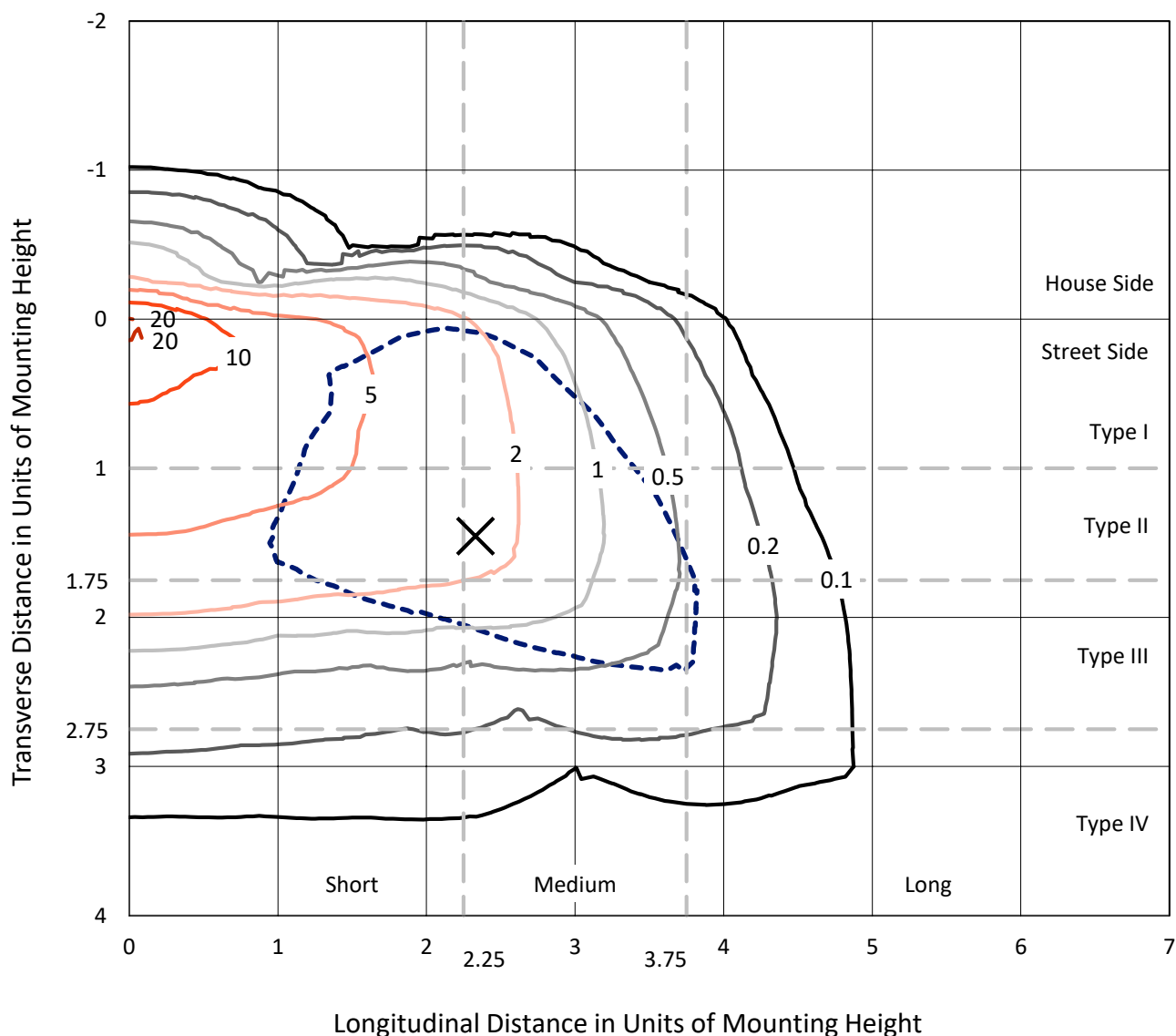
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

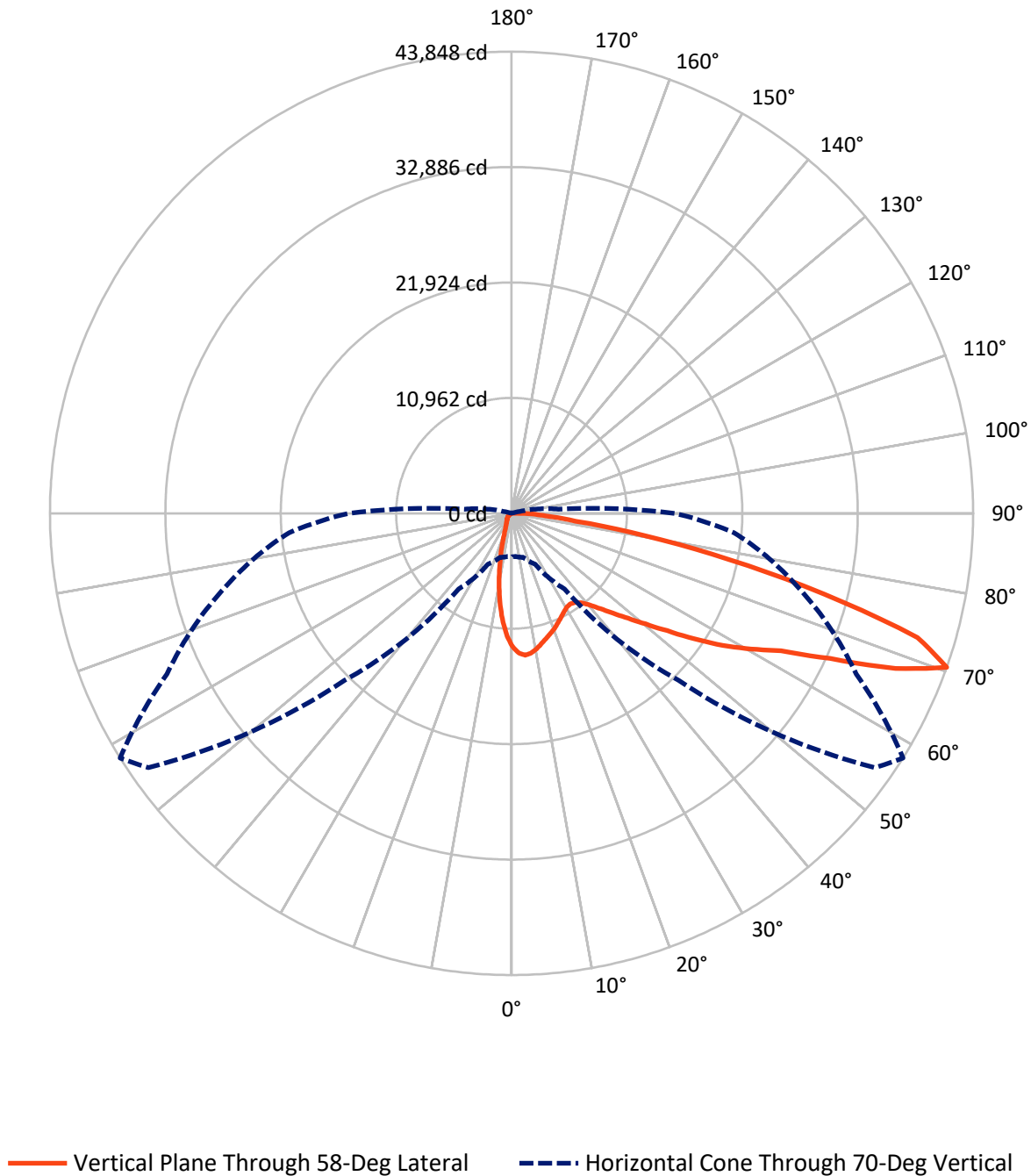
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3673.6	0.0	3673.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	39253.4	0.0	39253.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	42927.0	0.0	42927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.9	2.4
10°-20°	2176.3	5.1
20°-30°	2861.1	6.7
30°-40°	3789.2	8.8
40°-50°	5663.6	13.2
50°-60°	9072.9	21.1
60°-70°	11436.3	26.6
70°-80°	6168.7	14.4
80°-90°	722.1	1.7
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°	42927.0	100.0
0°-180°	42927.0	100.0

Coefficient of Utilization



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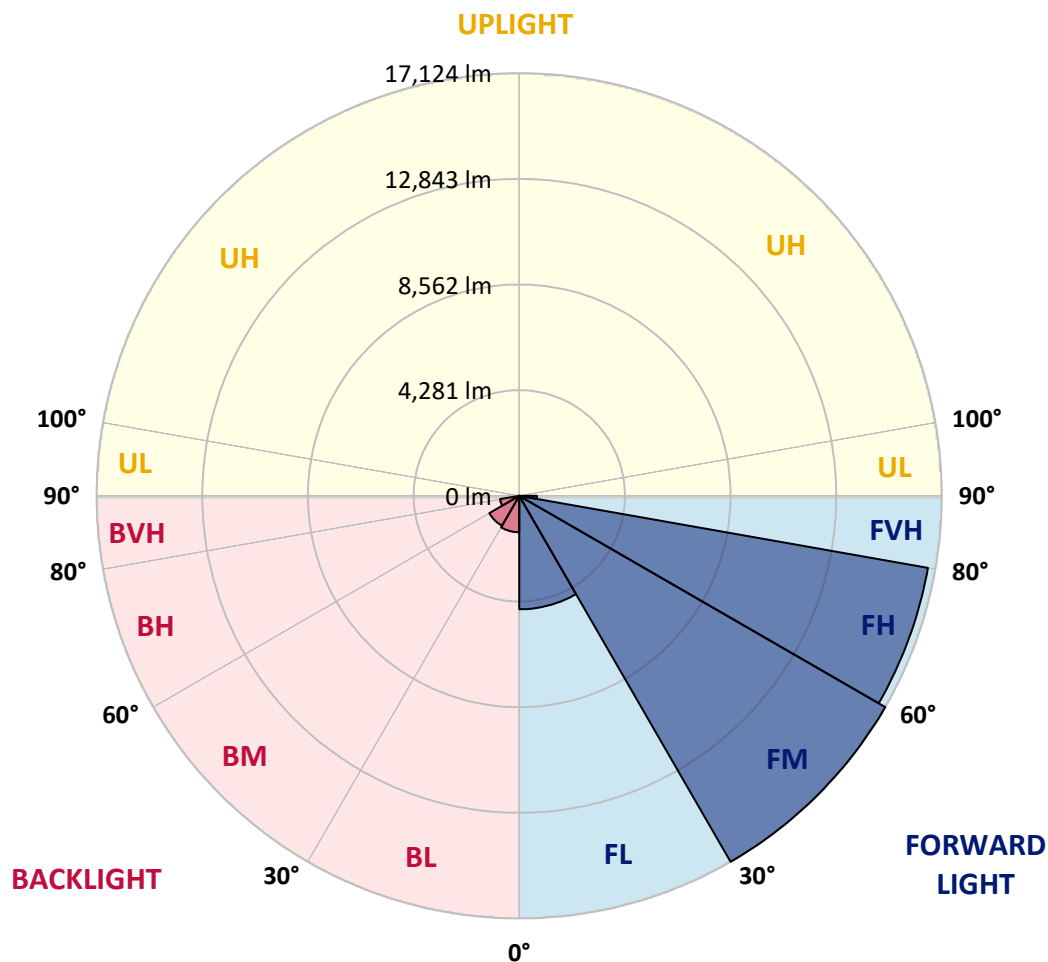
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4598.4	10.7			
FM	(30°-60°)	17124.2	39.9			
FH	(60°-80°)	16815.0	39.2			G5
FVH	(80°-90°)	715.8	1.7			G4/750
BL	(0°-30°)	1475.9	3.4	B3/2500		
BM	(30°-60°)	1401.4	3.3	B2/2500		
BH	(60°-80°)	790.0	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4
2.5°	13731.8	13697.9	13685.4	13664.0	13581.8	13501.5	13342.7	13298.0	13198.1	12960.7	12709.0
5°	13742.5	13740.7	13778.2	13769.3	13740.7	13703.2	13589.0	13530.1	13360.5	13021.4	12560.8
7.5°	13080.3	13114.2	13198.1	13265.9	13344.4	13446.2	13460.5	13403.3	13264.1	12898.2	12287.7
10°	12191.4	12244.9	12362.7	12496.6	12701.9	12905.3	13087.4	13080.3	13032.1	12671.5	11959.3
12.5°	11300.7	11363.1	11498.8	11696.9	11987.9	12319.9	12644.7	12689.4	12769.7	12468.0	11655.9
15°	10520.6	10574.2	10708.0	10950.8	11311.4	11757.6	12234.2	12316.3	12523.4	12309.2	11402.4
17.5°	9858.4	9892.3	9990.5	10260.0	10677.7	11218.5	11837.9	11998.6	12307.4	12184.2	11182.8
20°	9396.1	9401.4	9465.7	9654.9	10072.6	10677.7	11427.4	11657.6	12078.9	12077.1	10956.2
22.5°	9167.6	9149.8	9162.3	9271.1	9578.2	10161.8	11016.8	11289.9	11873.6	11986.1	10725.9
25°	9124.8	9110.5	9074.8	9089.1	9274.7	9710.2	10602.7	10918.7	11693.3	11930.7	10526.0
27.5°	9258.6	9272.9	9212.2	9148.0	9162.3	9417.5	10235.0	10600.9	11547.0	11930.7	10385.0
30°	9528.2	9535.3	9490.7	9406.8	9294.3	9335.4	9979.8	10345.7	11473.8	12012.9	10295.7
32.5°	9826.3	9865.5	9860.2	9792.3	9631.7	9465.7	9919.1	10252.9	11468.4	12194.9	10286.8
35°	10195.8	10240.4	10315.3	10301.1	10133.3	9860.2	10126.1	10388.5	11573.8	12494.8	10383.2
37.5°	10588.4	10656.3	10816.9	10893.7	10784.8	10476.0	10590.2	10777.7	11855.8	12980.3	10627.7
40°	10968.6	11045.4	11338.1	11639.8	11557.7	11240.0	11293.5	11443.4	12357.4	13678.2	11091.8
42.5°	11341.7	11455.9	11886.1	12382.3	12480.5	12227.1	12255.6	12375.2	13101.7	14638.5	11850.4
45°	11787.9	11916.5	12553.7	13165.9	13428.3	13317.7	13439.0	13517.6	14074.5	15907.7	12873.2
47.5°	12443.0	12591.2	13373.0	14070.9	14531.4	14602.8	14847.4	14899.2	15304.3	17385.6	14206.6
50°	13721.1	13762.1	14469.0	15102.6	15766.6	16195.0	16473.5	16512.8	16793.0	19001.0	15872.0
52.5°	15329.3	15356.1	15755.9	16180.8	16935.8	17810.4	18462.0	18517.3	18576.2	20575.4	17515.9
55°	16926.9	16923.3	17187.5	17437.4	18301.3	19572.2	20985.9	21019.8	20596.8	22069.4	18772.5
57.5°	17924.7	18021.1	18422.7	18744.0	19950.6	21580.3	23542.0	23666.9	22719.1	23176.1	20014.9
60°	17607.0	17653.4	18544.1	19732.9	22005.1	24434.5	26128.4	26160.5	24314.9	24281.0	21585.7
62.5°	15000.9	15025.9	16425.3	18876.1	23045.8	28136.5	29248.5	28725.5	26149.8	25814.2	23465.2
65°	10281.4	10443.9	11613.0	14642.1	21134.1	30458.7	34078.7	33213.0	28946.9	28024.0	25164.5
67.5°	6054.6	6020.7	6599.0	8830.3	15522.1	28916.5	40188.6	39328.3	32761.4	29503.8	24666.5
70°	4135.8	4112.6	4333.9	5346.0	8762.4	22431.7	42111.0	43847.8	36129.6	28507.8	21228.7
72.5°	2952.3	2964.8	3291.5	4153.6	5501.3	13069.6	36213.5	40324.3	35074.7	24852.1	16136.1
75°	2004.5	2038.4	2506.1	3407.5	4823.0	6649.0	25698.2	30653.3	28561.3	18062.1	9274.7
77.5°	1078.1	1115.6	1667.2	2745.3	4360.7	4619.5	16530.6	21096.6	17940.7	8119.8	2688.2
80°	449.8	471.2	780.0	1995.6	3768.1	4057.2	9726.3	12792.9	7645.0	1601.1	599.8
82.5°	194.6	205.3	324.9	1190.6	2816.7	3425.4	5149.6	6154.6	2316.9	351.6	301.7
85°	37.5	39.3	133.9	630.1	1797.5	1933.1	3337.9	3271.9	1040.6	151.7	219.6
87.5°	0.0	0.0	32.1	198.1	528.4	1053.1	2036.7	2011.7	353.4	73.2	82.1
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°	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4
2.5°	12580.5	12457.3	12198.5	11879.0	11634.4	11364.9	11150.7	10879.4	10761.6	10766.9	10702.7
5°	12298.4	12045.0	11472.0	10749.1	10192.2	9617.4	9123.0	8630.3	8339.4	8244.8	8155.5
7.5°	11895.0	11493.4	10579.5	9465.7	8523.2	7602.2	6800.7	6095.7	5649.4	5431.7	5351.3
10°	11439.9	10875.8	9553.2	8085.9	6740.0	5494.1	4455.3	3552.1	3191.5	2947.0	2884.5
12.5°	11040.0	10276.1	8550.0	6670.4	5072.9	3569.9	2579.3	2017.0	1772.5	1676.1	1660.0
15°	10663.4	9715.6	7584.3	5388.8	3512.8	2197.3	1640.4	1449.4	1392.3	1376.2	1376.2
17.5°	10308.2	9181.9	6640.1	4126.9	2324.0	1540.4	1358.4	1315.5	1297.7	1295.9	1297.7
20°	9936.9	8648.2	5711.9	3023.7	1622.5	1304.8	1254.8	1231.6	1226.3	1226.3	1226.3
22.5°	9581.7	8114.5	4808.7	2159.8	1301.2	1190.6	1165.6	1149.5	1144.2	1142.4	1138.8
25°	9240.8	7607.5	3926.9	1526.2	1142.4	1090.6	1069.2	1047.8	1031.7	1022.8	1017.4
27.5°	8960.6	7155.9	3105.8	1224.5	1031.7	987.1	960.3	928.2	888.9	871.1	863.9
30°	8737.4	6743.6	2393.6	1033.5	928.2	883.6	842.5	787.2	730.1	699.7	697.9
32.5°	8562.5	6338.4	1817.1	913.9	835.4	780.0	721.1	651.5	585.5	551.6	549.8
35°	8476.8	5981.4	1388.7	826.4	753.3	683.6	610.5	533.7	469.4	437.3	433.7
37.5°	8533.9	5679.8	1083.5	753.3	683.6	603.3	517.6	437.3	380.2	351.6	349.9
40°	8742.8	5487.0	880.0	690.8	624.7	526.6	433.7	358.8	310.6	287.4	285.6
42.5°	9187.2	5415.6	751.5	639.0	567.6	455.2	360.6	296.3	251.7	235.6	232.0
45°	9929.8	5520.9	664.0	589.0	508.7	387.3	298.1	242.8	203.5	191.0	189.2
47.5°	10918.7	5797.6	601.5	540.8	455.2	326.6	248.1	196.3	166.0	153.5	151.7
50°	12193.1	6236.7	549.8	492.7	405.2	276.7	205.3	155.3	128.5	119.6	119.6
52.5°	13580.1	6759.7	503.4	448.0	355.2	230.3	166.0	119.6	101.7	91.0	91.0
55°	14726.0	7216.6	453.4	414.1	294.5	191.0	126.7	91.0	75.0	69.6	69.6
57.5°	15870.2	7703.9	396.3	355.2	235.6	155.3	96.4	67.8	55.3	51.8	51.8
60°	17353.5	8300.1	340.9	289.2	185.6	117.8	71.4	48.2	41.1	39.3	39.3
62.5°	18984.9	8650.0	291.0	232.0	144.6	87.5	51.8	32.1	30.3	30.3	28.6
65°	19982.7	8155.5	244.5	185.6	112.5	66.0	33.9	23.2	26.8	25.0	21.4
67.5°	18710.1	6384.8	199.9	144.6	87.5	50.0	21.4	16.1	28.6	23.2	17.8
70°	15491.8	4469.6	155.3	101.7	69.6	42.8	14.3	10.7	30.3	23.2	14.3
72.5°	11593.4	2991.6	123.2	67.8	51.8	37.5	12.5	5.4	26.8	19.6	12.5
75°	6334.9	1204.9	98.2	42.8	32.1	26.8	8.9	3.6	17.8	14.3	8.9
77.5°	1667.2	317.7	71.4	28.6	17.8	10.7	5.4	1.8	8.9	7.1	3.6
80°	424.8	123.2	46.4	19.6	12.5	5.4	0.0	0.0	1.8	0.0	0.0
82.5°	226.7	51.8	28.6	14.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	171.4	33.9	16.1	8.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.0	10.7	5.4	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)