

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: P191107

Luminaire Tested: **GAN-AF-09-LED-U-SL2-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-SL2-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58498.5 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

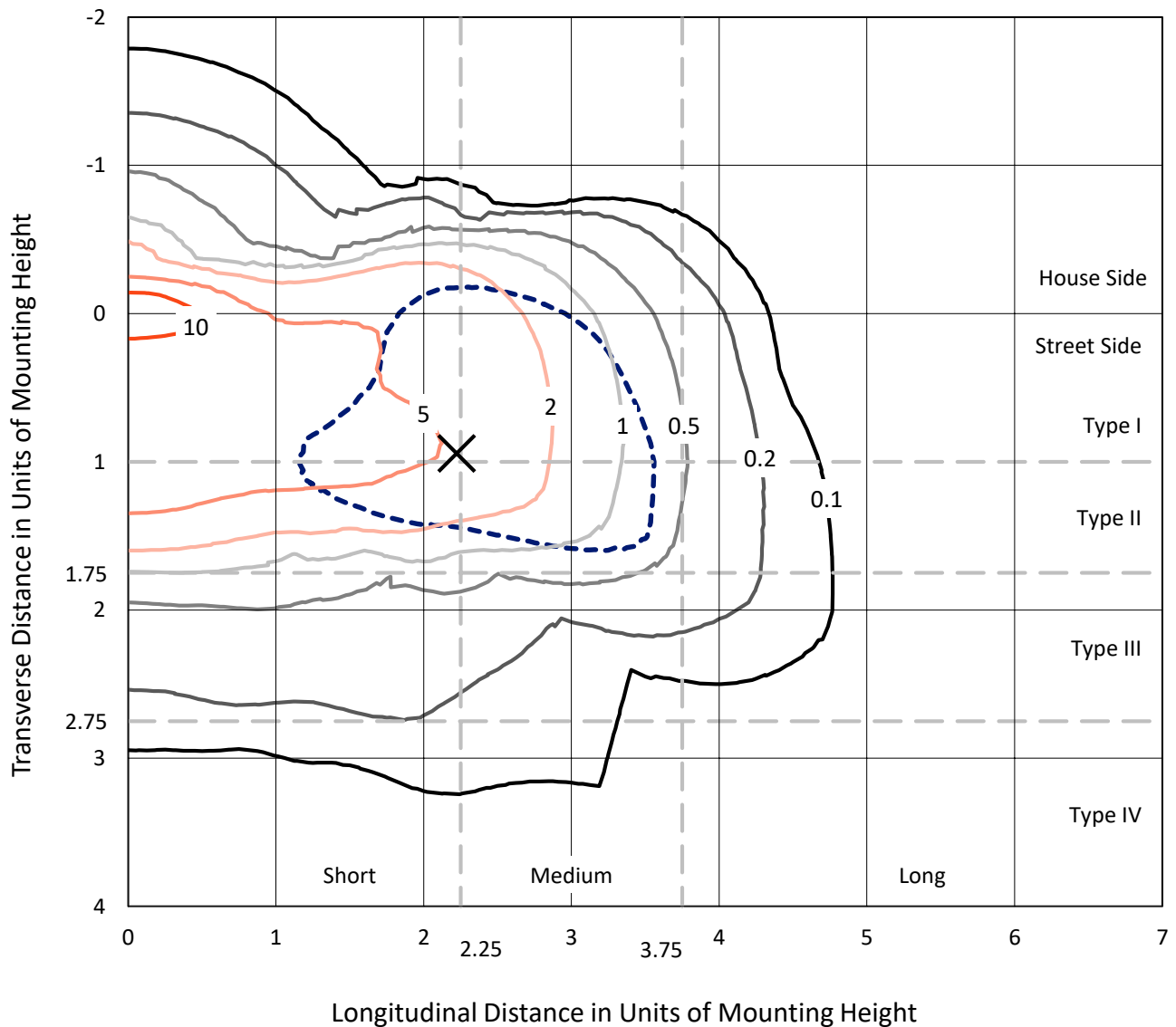
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

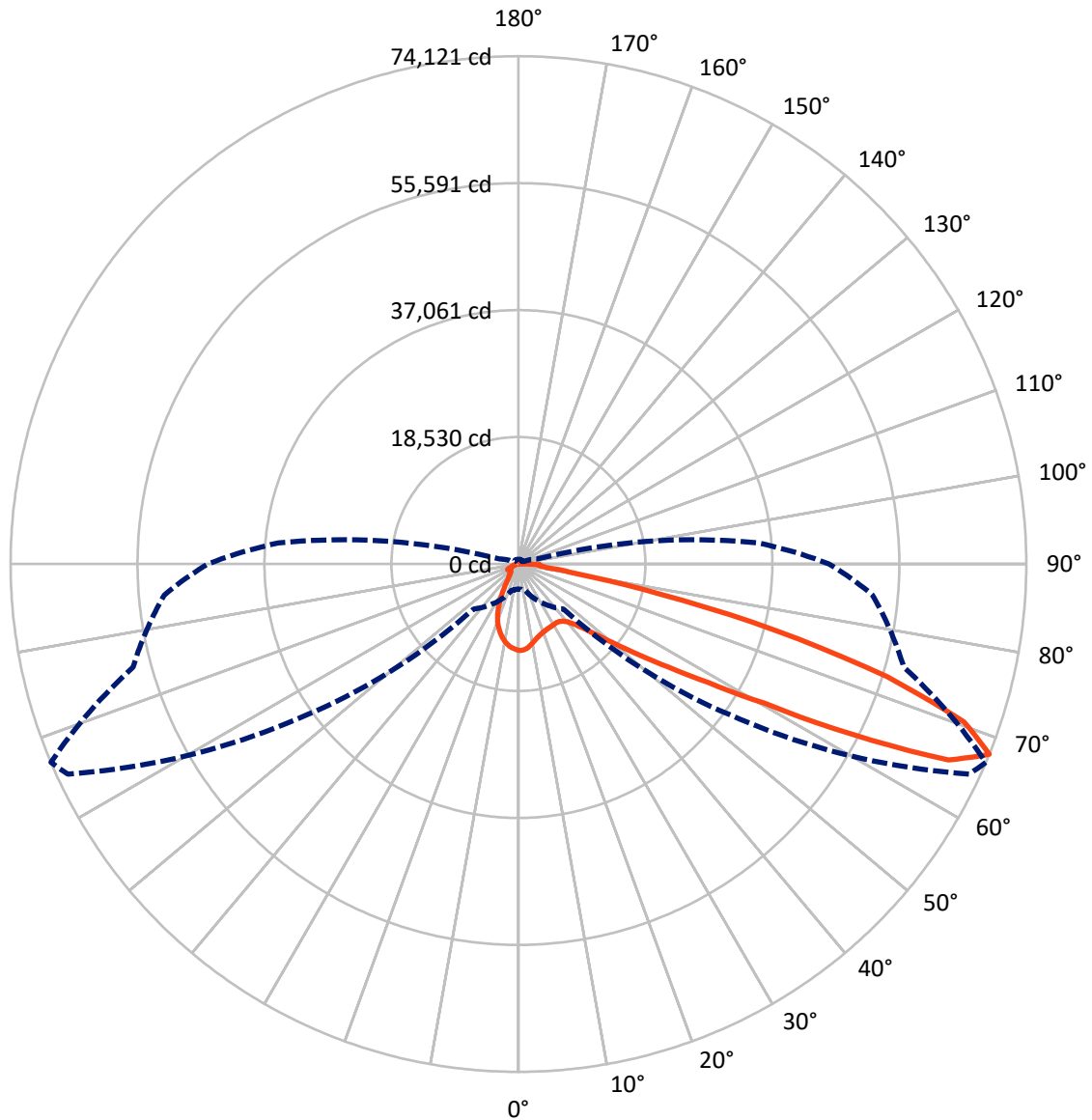
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9692.5	0.0	9692.5
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	48805.9	0.0	48805.9
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	58498.5	0.0	58498.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1076.5	1.8
10°-20°	2490.9	4.3
20°-30°	3376.4	5.8
30°-40°	4799.9	8.2
40°-50°	8030.4	13.7
50°-60°	12704.1	21.7
60°-70°	16183.7	27.7
70°-80°	8477.0	14.5
80°-90°	1359.5	2.3
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°	58498.5	100.0
0°-180°	58498.5	100.0

**Coefficient of Utilization**



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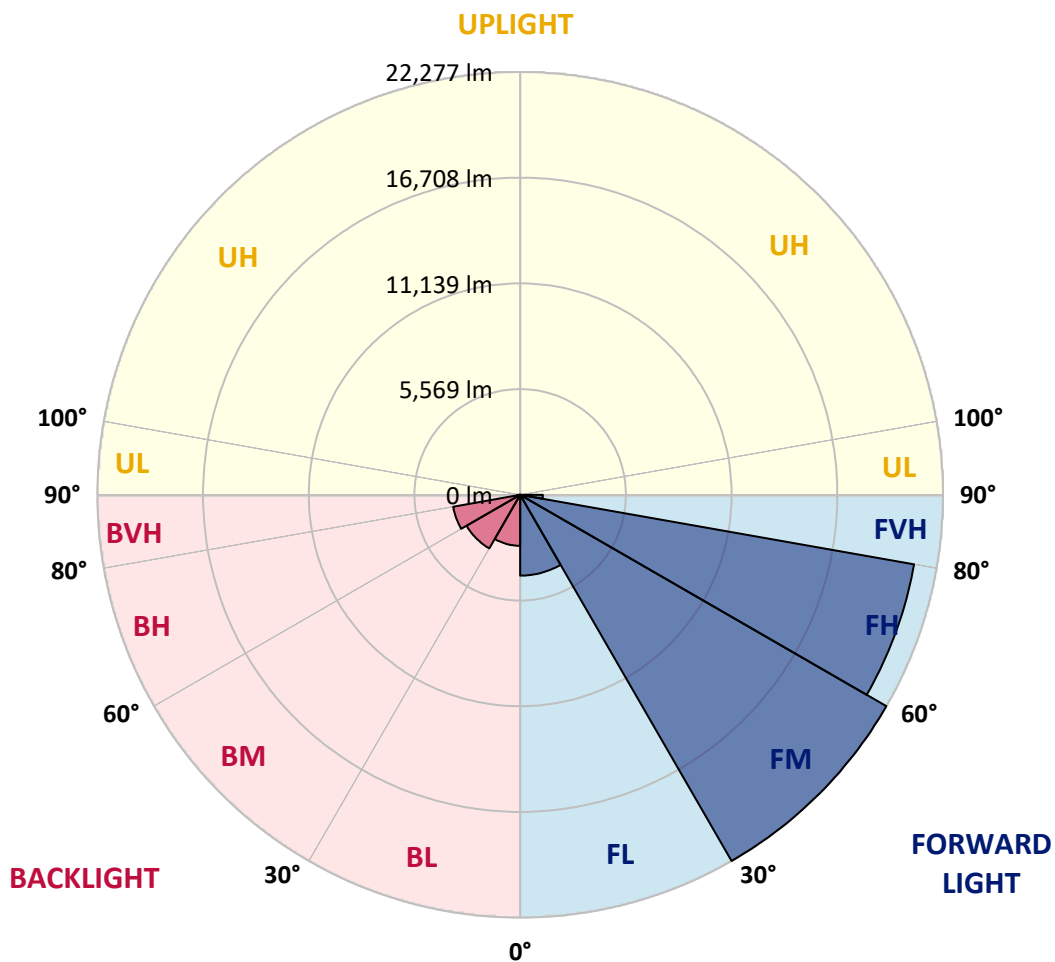
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4257.3	7.3			
FM	(30°-60°)	22277.4	38.1			
FH	(60°-80°)	21075.8	36.0			G5
FVH	(80°-90°)	1195.5	2.0			G5
BL	(0°-30°)	2686.5	4.6	B4/5000		
BM	(30°-60°)	3257.0	5.6	B3/5000		
BH	(60°-80°)	3585.0	6.1	B4/5000		G4/5000
BVH	(80°-90°)	164.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0
2.5°	12098.7	12118.9	12182.4	12222.7	12404.5	12482.4	12537.2	12592.0	12600.7	12626.6	12600.7
5°	10829.5	10872.7	10991.0	11123.7	11475.6	11752.6	12043.9	12346.8	12401.6	12597.7	12652.6
7.5°	9845.7	9834.1	9932.2	10090.9	10451.5	10835.2	11345.8	11948.7	12067.0	12508.3	12721.8
10°	9127.4	9118.8	9222.6	9387.0	9730.3	10093.8	10670.7	11495.8	11663.1	12367.0	12788.2
12.5°	8596.6	8599.5	8703.4	8885.0	9234.2	9600.5	10186.1	11057.3	11270.8	12202.6	12857.4
15°	8244.7	8267.8	8351.4	8544.7	8885.0	9251.5	9825.5	10728.5	10967.9	12072.8	12935.3
17.5°	8126.4	8163.9	8192.7	8334.1	8625.4	8991.8	9554.4	10486.2	10740.0	11983.4	13004.6
20°	8236.0	8279.3	8224.5	8273.5	8458.2	8781.2	9340.9	10295.7	10555.3	11882.4	13013.2
22.5°	8706.2	8746.6	8585.1	8443.7	8432.2	8628.4	9164.9	10145.7	10414.0	11807.3	13016.0
25°	9534.2	9560.1	9288.9	8960.1	8639.8	8573.6	9040.8	10041.9	10327.5	11741.0	12961.3
27.5°	10549.6	10569.7	10258.3	9773.6	9130.2	8703.4	8997.6	9981.3	10278.4	11683.3	12868.9
30°	11784.3	11879.4	11461.1	10849.6	9912.1	9087.0	9084.1	9949.5	10223.6	11585.2	12687.2
32.5°	13047.8	13088.1	12799.7	12179.5	10965.0	9762.0	9326.4	9972.6	10209.2	11467.0	12456.5
35°	14328.7	14380.5	14193.0	13694.0	12404.5	10751.5	9799.6	10108.2	10298.7	11426.6	12294.8
37.5°	15987.4	16056.6	15797.0	15220.1	14155.6	12092.9	10587.1	10448.6	10572.7	11542.0	12245.8
40°	18609.6	18577.9	17819.2	16959.5	16071.1	13809.4	11712.2	11025.6	11097.7	11914.1	12395.8
42.5°	21661.7	21583.9	20277.0	18926.9	18176.9	15886.4	13200.7	12026.6	12012.2	12646.8	12923.8
45°	24096.4	24033.0	22856.0	21191.6	20591.5	18251.9	15124.8	13518.0	13411.3	13809.4	13898.8
47.5°	25414.8	25417.7	24739.8	23381.1	23366.7	21257.8	17597.1	15675.8	15491.2	15678.7	15583.5
50°	24953.2	25013.8	24941.7	24509.0	25899.5	25198.4	20825.1	18684.6	18312.6	18497.1	18130.8
52.5°	22720.5	22798.3	23225.3	23888.8	26964.0	29961.2	25567.7	22423.3	21990.6	21924.2	21517.5
55°	18762.6	18857.7	19728.9	21531.9	26078.3	33160.4	33050.8	27188.9	26499.4	25873.5	25700.4
57.5°	12932.5	13091.1	14493.1	17170.1	23213.7	34126.8	41961.9	33982.5	32580.6	30393.9	30434.3
60°	7289.9	7474.4	9127.4	11559.2	17432.6	33076.7	48741.0	44272.5	41312.8	35687.5	35987.5
62.5°	4635.8	4834.9	6089.7	8031.2	10460.2	27422.7	51519.1	58578.1	54819.2	42212.8	42507.1
65°	3753.1	3839.6	4431.0	6629.2	7595.6	16521.1	49410.3	70362.3	68960.4	50495.0	49121.8
67.5°	3663.7	3692.5	3998.3	5564.8	7284.0	9286.0	39411.7	72566.4	74121.3	58229.0	51876.8
70°	3620.4	3721.4	4506.0	5310.9	6975.4	7832.1	23684.0	66525.7	68980.5	60251.3	48210.2
72.5°	1756.8	1751.1	2267.5	4803.2	7858.1	8123.5	12168.0	53826.9	56290.5	52199.9	39616.5
75°	1416.4	1295.3	1237.6	1759.7	7555.2	8388.9	7754.3	37037.6	38820.4	34998.0	24353.2
77.5°	1344.3	1200.0	1099.1	1102.0	3193.4	8896.6	6568.6	20499.1	21018.5	15808.6	6672.5
80°	1113.5	980.8	908.7	1024.1	1546.2	8472.6	7102.3	9277.4	8513.0	3882.9	2221.2
82.5°	773.1	703.9	683.7	859.7	1237.6	6037.9	8259.1	4984.8	4180.0	1944.3	1370.2
85°	493.3	421.1	467.3	625.9	963.5	2786.7	8507.2	3885.8	3089.6	1234.7	773.1
87.5°	227.9	184.6	230.8	346.2	628.9	960.7	8094.6	4364.6	3181.9	651.9	487.5
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°	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0	12618.0
2.5°	12623.7	12568.9	12525.6	12444.9	12355.5	12269.0	12191.0	12092.9	12064.1	12038.2	12078.5
5°	12664.1	12609.3	12450.6	12202.6	11928.5	11671.8	11415.0	11195.8	11060.2	10985.2	11028.4
7.5°	12724.7	12646.8	12318.0	11862.1	11368.9	10918.9	10454.4	10082.3	9808.3	9678.4	9715.9
10°	12779.5	12629.6	12092.9	11409.3	10688.1	10018.8	9286.0	8680.2	8230.3	7993.6	8051.3
12.5°	12802.6	12563.2	11778.5	10843.9	9854.4	8873.6	7794.7	6888.9	6242.7	6006.1	5957.1
15°	12825.7	12488.2	11432.3	10200.6	8847.6	7460.0	5948.4	4863.7	4327.2	4208.8	4182.9
17.5°	12831.5	12358.4	11040.0	9502.4	7667.7	5778.2	4067.6	3378.1	3381.0	3571.3	3594.4
20°	12770.8	12165.0	10564.0	8634.1	6254.2	3995.4	2792.5	2674.2	3109.8	3585.7	3643.4
22.5°	12632.4	11908.3	10024.6	7621.6	4635.8	2630.9	2160.7	2290.5	2853.0	3435.8	3502.1
25°	12456.5	11596.8	9387.0	6447.5	3069.4	1880.9	1811.6	1970.3	2351.0	2740.5	2778.0
27.5°	12217.0	11227.5	8671.7	5103.2	1993.4	1549.2	1595.3	1702.0	1857.8	2030.9	2048.2
30°	11908.3	10786.2	7907.1	3721.4	1505.9	1393.4	1459.6	1517.3	1583.7	1681.8	1690.4
32.5°	11553.5	10362.1	7122.5	2570.4	1335.7	1312.5	1364.5	1393.4	1445.2	1505.9	1511.6
35°	11256.3	9958.2	6308.9	1817.4	1263.5	1252.0	1286.6	1298.1	1347.2	1413.5	1419.3
37.5°	11086.1	9629.3	5469.5	1465.5	1214.4	1197.2	1217.4	1217.4	1286.6	1384.7	1399.1
40°	11097.7	9447.6	4630.1	1324.1	1174.1	1151.0	1153.9	1153.9	1243.3	1350.1	1358.7
42.5°	11412.1	9493.8	3885.8	1269.3	1142.3	1116.4	1102.0	1110.6	1185.6	1254.9	1260.7
45°	12150.6	9819.7	3187.7	1234.7	1110.6	1102.0	1070.2	1067.3	1096.2	1127.9	1127.9
47.5°	13362.3	10463.0	2714.6	1211.6	1084.6	1081.8	1044.3	1006.8	1003.9	1015.5	1015.5
50°	15332.5	11570.8	2397.3	1185.6	1067.3	1044.3	1001.1	943.4	923.1	931.8	931.8
52.5°	18286.6	13546.8	2276.1	1151.0	1029.9	992.4	943.4	885.7	868.3	871.2	871.2
55°	22160.8	16581.6	2258.8	1110.6	989.5	928.9	888.5	845.3	825.0	830.8	830.8
57.5°	26894.7	20779.0	2567.4	1047.2	934.7	865.4	842.4	813.6	799.1	807.7	804.9
60°	32649.8	26271.6	3807.9	980.8	879.8	807.7	807.7	784.7	773.1	781.7	778.9
62.5°	39279.0	32580.6	5354.1	931.8	822.1	761.6	773.1	761.6	750.0	755.9	752.9
65°	45158.2	36691.4	5013.7	894.3	764.5	718.3	738.5	732.7	724.0	729.9	727.0
67.5°	45328.4	35168.2	2815.6	853.9	709.6	675.0	703.9	701.0	695.2	701.0	698.2
70°	40453.1	29695.9	1586.6	778.9	651.9	623.1	663.5	660.6	654.9	666.4	663.5
72.5°	32410.4	21549.2	1159.7	686.6	594.2	568.2	614.5	611.5	611.5	628.9	620.2
75°	18650.0	11089.1	926.0	588.5	533.7	513.5	553.8	556.8	562.5	585.6	568.2
77.5°	5316.6	3455.9	755.9	499.1	458.7	450.0	490.4	496.1	499.1	525.0	502.0
80°	1976.0	1592.4	623.1	418.3	375.0	377.9	415.4	424.0	427.0	452.9	424.0
82.5°	1260.7	1050.1	504.8	323.0	294.2	291.3	337.5	349.0	349.0	351.9	334.6
85°	735.6	628.9	380.7	233.6	207.7	199.1	250.9	271.2	262.5	256.8	245.2
87.5°	493.3	432.7	233.6	129.8	112.5	106.7	147.1	161.5	155.8	147.1	138.5
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)