

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: P191097

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191097
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA 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: 53326.4 lumens
Efficiency: N/A
Efficacy: 106.4 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

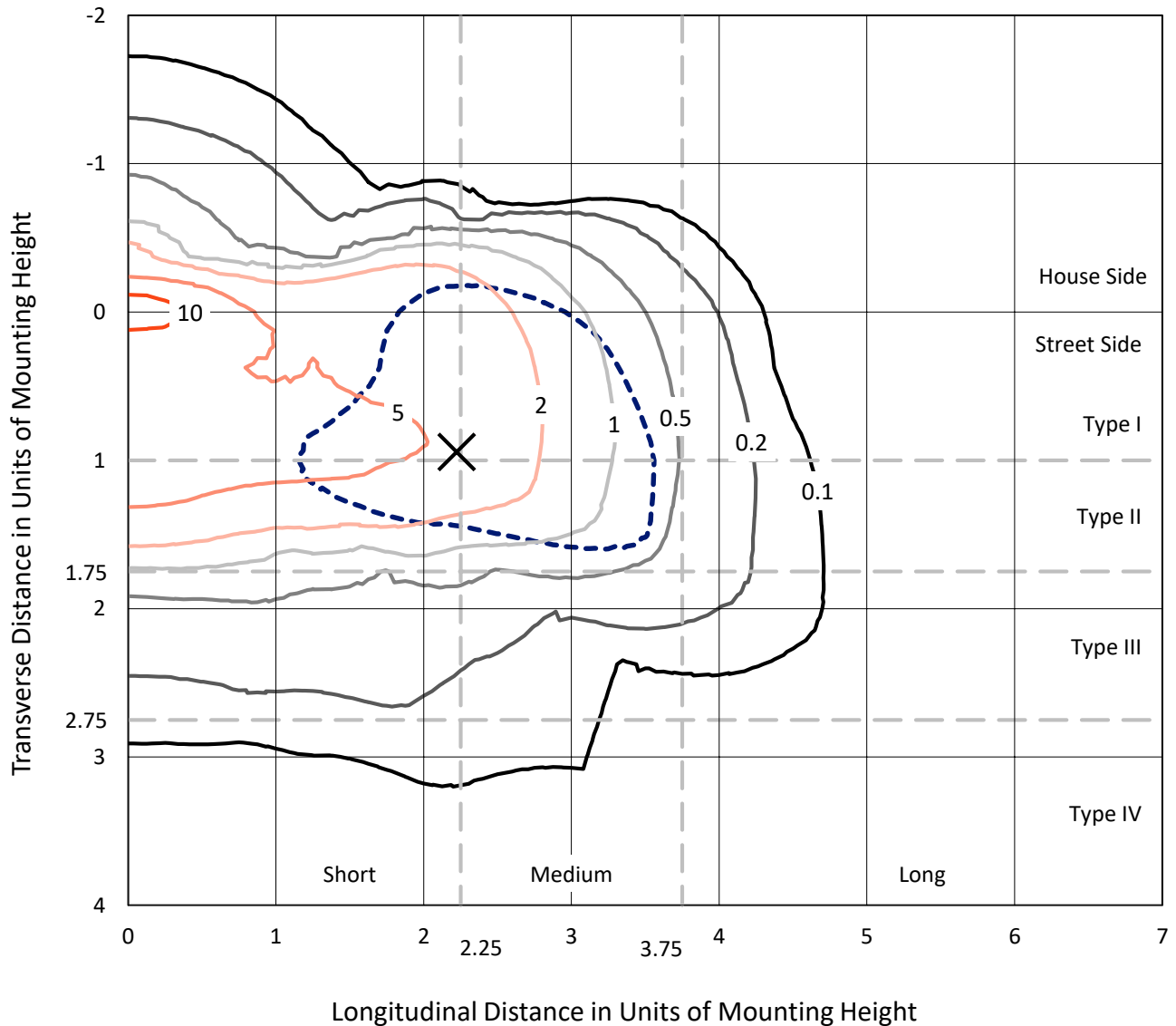
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

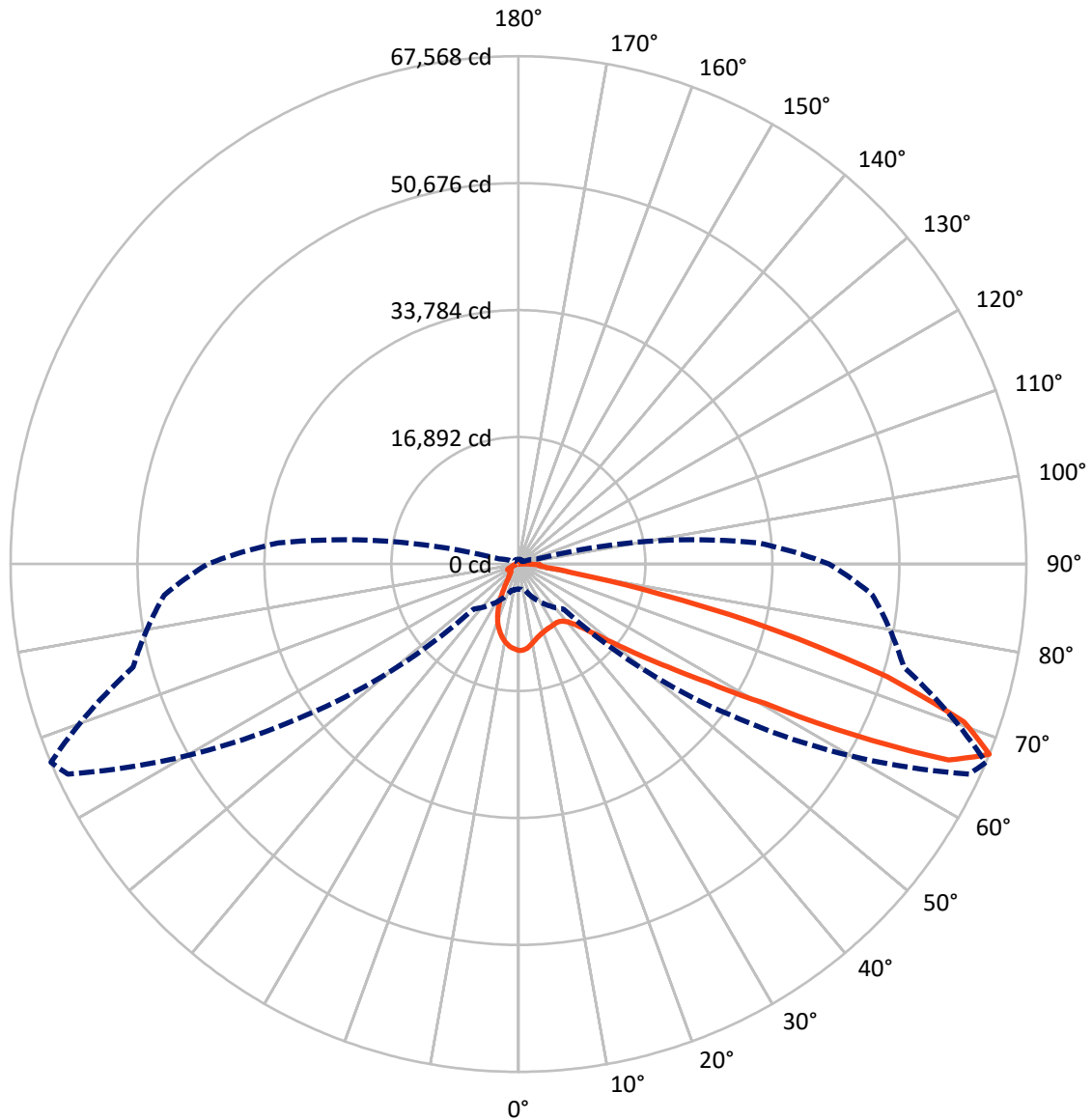


Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - Semi-Cutoff

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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
House Side	Lumens	8835.6	0.0	8835.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	44490.8	0.0	44490.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	53326.4	0.0	53326.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.3	1.8
10°-20°	2270.6	4.3
20°-30°	3077.9	5.8
30°-40°	4375.5	8.2
40°-50°	7320.4	13.7
50°-60°	11580.9	21.7
60°-70°	14752.9	27.7
70°-80°	7727.5	14.5
80°-90°	1239.4	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°	53326.4	100.0
0°-180°	53326.4	100.0



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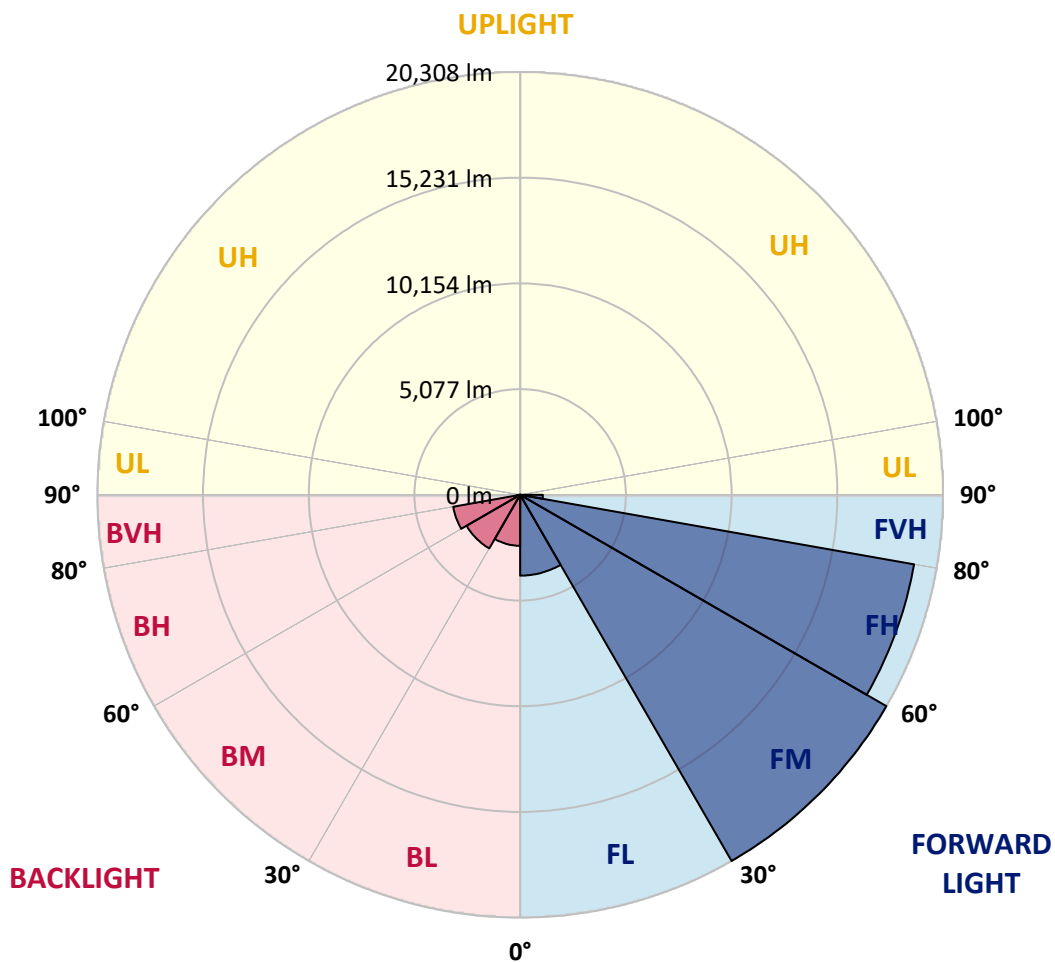
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3880.9	7.3			
FM (30°-60°)	20307.8	38.1			
FH (60°-80°)	19212.4	36.0			G5
FVH (80°-90°)	1089.8	2.0			G5
BL (0°-30°)	2449.0	4.6	B3/2500		
BM (30°-60°)	2969.0	5.6	B3/5000		
BH (60°-80°)	3268.0	6.1	B4/5000		G4/5000
BVH (80°-90°)	149.6	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°	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4
2.5°	11029.0	11047.5	11105.3	11142.1	11307.8	11378.8	11428.7	11478.7	11486.6	11510.2	11486.6
5°	9872.0	9911.4	10019.2	10140.2	10461.0	10713.5	10979.0	11255.2	11305.1	11484.0	11534.0
7.5°	8975.3	8964.7	9054.1	9198.8	9527.5	9877.2	10342.6	10892.3	11000.1	11402.4	11597.1
10°	8320.4	8312.5	8407.2	8557.1	8870.0	9201.3	9727.3	10479.4	10631.9	11273.6	11657.5
12.5°	7836.5	7839.2	7933.9	8099.5	8417.8	8751.7	9285.5	10079.7	10274.3	11123.7	11720.7
15°	7515.7	7536.8	7613.0	7789.3	8099.5	8433.5	8956.9	9779.9	9998.2	11005.3	11791.7
17.5°	7407.9	7442.1	7468.4	7597.3	7862.8	8196.8	8709.6	9559.1	9790.5	10923.9	11854.8
20°	7507.8	7547.3	7497.3	7542.0	7710.3	8004.9	8515.0	9385.5	9622.2	10831.8	11862.6
22.5°	7936.5	7973.3	7826.1	7697.2	7686.7	7865.5	8354.6	9248.7	9493.3	10763.4	11865.3
25°	8691.2	8714.9	8467.7	8167.9	7876.0	7815.5	8241.5	9154.1	9414.4	10702.9	11815.3
27.5°	9616.9	9635.3	9351.3	8909.5	8323.0	7933.9	8202.1	9098.8	9369.7	10650.4	11731.2
30°	10742.4	10829.2	10447.9	9890.4	9035.7	8283.7	8281.0	9069.9	9319.7	10560.9	11565.5
32.5°	11894.3	11931.0	11668.1	11102.7	9995.6	8899.0	8501.8	9091.0	9306.6	10453.1	11355.2
35°	13061.8	13109.1	12938.2	12483.3	11307.8	9801.0	8933.1	9214.5	9388.1	10416.3	11207.9
37.5°	14573.9	14637.0	14400.3	13874.4	12904.0	11023.7	9651.0	9524.8	9637.9	10521.5	11163.2
40°	16964.3	16935.4	16243.7	15460.1	14650.2	12588.4	10676.6	10050.8	10116.5	10860.8	11299.9
42.5°	19746.5	19675.5	18484.3	17253.6	16569.9	14481.8	12033.6	10963.3	10950.2	11528.7	11781.1
45°	21966.0	21908.1	20835.3	19317.9	18770.9	16638.2	13787.6	12322.9	12225.6	12588.4	12670.0
47.5°	23167.8	23170.4	22552.5	21313.9	21300.7	19378.4	16041.3	14289.9	14121.5	14292.5	14205.7
50°	22747.1	22802.3	22736.5	22342.1	23609.6	22970.6	18983.9	17032.6	16693.4	16861.7	16527.8
52.5°	20711.7	20782.7	21171.8	21776.7	24580.0	27312.3	23307.2	20440.8	20046.4	19985.8	19615.1
55°	17103.6	17190.5	17984.6	19628.2	23772.7	30228.6	30128.7	24785.1	24156.6	23586.0	23428.1
57.5°	11789.0	11933.6	13211.7	15652.1	21161.4	31109.6	38251.8	30978.0	29700.0	27706.7	27743.6
60°	6645.3	6813.6	8320.4	10537.3	15891.3	30152.3	44431.7	40358.3	37660.1	32532.2	32805.7
62.5°	4225.9	4407.4	5551.3	7321.2	9535.3	24998.1	46964.1	53399.1	49972.5	38480.6	38748.9
65°	3421.3	3500.1	4039.2	6043.1	6924.0	15060.4	45041.8	64141.4	62863.4	46030.5	44778.9
67.5°	3339.7	3366.0	3644.8	5072.7	6640.1	8465.0	35927.2	66150.5	67567.9	53080.8	47290.2
70°	3300.2	3392.3	4107.7	4841.3	6358.7	7139.7	21590.0	60643.9	62881.8	54924.3	43947.8
72.5°	1601.5	1596.2	2067.0	4378.4	7163.3	7405.2	11092.2	49067.9	51313.7	47584.7	36113.8
75°	1291.2	1180.8	1128.1	1604.1	6887.2	7647.2	7068.7	33762.9	35388.1	31903.7	22200.1
77.5°	1225.5	1093.9	1001.9	1004.5	2911.1	8110.1	5987.8	18686.8	19160.1	14410.8	6082.6
80°	1015.1	894.1	828.4	933.5	1409.5	7723.5	6474.4	8457.1	7760.3	3539.6	2024.9
82.5°	704.8	641.7	623.3	783.7	1128.1	5504.0	7528.9	4544.2	3810.5	1772.5	1249.1
85°	449.7	383.9	426.1	570.6	878.3	2540.3	7755.0	3542.3	2816.4	1125.6	704.8
87.5°	207.8	168.3	210.4	315.6	573.3	875.6	7379.0	3978.8	2900.6	594.3	444.5
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°	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4	11502.4
2.5°	11507.7	11457.7	11418.3	11344.6	11263.1	11184.2	11113.1	11023.7	10997.4	10973.8	11010.6
5°	11544.4	11494.5	11349.8	11123.7	10873.9	10639.8	10405.8	10206.0	10082.3	10014.0	10053.4
7.5°	11599.6	11528.7	11228.9	10813.4	10363.7	9953.5	9530.1	9190.9	8941.0	8822.7	8856.9
10°	11649.7	11512.9	11023.7	10400.5	9743.1	9133.0	8465.0	7912.8	7502.6	7287.0	7339.6
12.5°	11670.6	11452.4	10737.1	9885.1	8983.1	8089.0	7105.5	6279.8	5690.7	5475.0	5430.3
15°	11691.7	11384.0	10421.5	9298.7	8065.4	6800.5	5422.5	4433.7	3944.6	3836.8	3813.0
17.5°	11696.9	11265.7	10063.9	8662.2	6989.8	5267.3	3707.9	3079.4	3082.0	3255.5	3276.6
20°	11641.8	11089.5	9630.1	7870.8	5701.2	3642.1	2545.6	2437.8	2834.8	3268.7	3321.3
22.5°	11515.6	10855.5	9138.2	6947.7	4225.9	2398.3	1969.7	2087.9	2600.8	3132.0	3192.4
25°	11355.2	10571.5	8557.1	5877.5	2798.0	1714.6	1651.5	1796.1	2143.2	2498.3	2532.4
27.5°	11136.9	10234.8	7905.0	4652.0	1817.2	1412.2	1454.2	1551.5	1693.5	1851.3	1867.1
30°	10855.5	9832.5	7208.0	3392.3	1372.7	1270.2	1330.7	1383.2	1443.7	1533.1	1541.0
32.5°	10532.0	9445.9	6492.8	2343.1	1217.5	1196.5	1243.8	1270.2	1317.5	1372.7	1378.0
35°	10261.1	9077.8	5751.2	1656.8	1151.8	1141.3	1172.8	1183.3	1228.1	1288.6	1293.8
37.5°	10106.0	8778.0	4986.0	1335.9	1107.1	1091.3	1109.7	1109.7	1172.8	1262.2	1275.4
40°	10116.5	8612.3	4220.7	1207.1	1070.3	1049.2	1051.9	1051.9	1133.4	1230.7	1238.6
42.5°	10403.2	8654.4	3542.3	1157.1	1041.4	1017.7	1004.5	1012.4	1080.8	1144.0	1149.2
45°	11076.4	8951.5	2905.8	1125.6	1012.4	1004.5	975.6	973.0	999.3	1028.3	1028.3
47.5°	12180.9	9538.0	2474.5	1104.5	988.8	986.1	952.0	917.8	915.1	925.7	925.7
50°	13977.0	10547.7	2185.3	1080.8	973.0	952.0	912.5	859.9	841.5	849.4	849.4
52.5°	16669.8	12349.2	2074.9	1049.2	938.8	904.6	859.9	807.3	791.6	794.2	794.2
55°	20201.4	15115.6	2059.1	1012.4	902.0	846.8	810.0	770.5	752.1	757.4	757.4
57.5°	24516.9	18941.9	2340.4	954.6	852.0	788.9	767.8	741.5	728.4	736.3	733.7
60°	29763.2	23948.8	3471.2	894.1	802.1	736.3	736.3	715.2	704.8	712.7	710.0
62.5°	35806.2	29700.0	4880.7	849.4	749.5	694.3	704.8	694.3	683.7	689.0	686.4
65°	41165.6	33447.3	4570.4	815.2	696.8	654.8	673.2	668.0	660.0	665.3	662.7
67.5°	41320.8	32058.9	2566.6	778.4	646.9	615.3	641.7	639.0	633.7	639.0	636.4
70°	36876.6	27070.3	1446.4	710.0	594.3	568.0	604.9	602.2	597.0	607.4	604.9
72.5°	29544.9	19644.0	1057.1	625.8	541.8	518.0	560.2	557.5	557.5	573.3	565.4
75°	17001.1	10108.6	844.1	536.4	486.5	468.1	504.9	507.5	512.8	533.9	518.0
77.5°	4846.5	3150.4	689.0	454.9	418.1	410.2	447.0	452.3	454.9	478.6	457.6
80°	1801.3	1451.6	568.0	381.4	341.9	344.5	378.7	386.6	389.2	412.9	386.6
82.5°	1149.2	957.2	460.2	294.5	268.2	265.6	307.7	318.2	318.2	320.8	305.0
85°	670.5	573.3	347.1	213.0	189.3	181.5	228.8	247.1	239.3	234.1	223.5
87.5°	449.7	394.4	213.0	118.4	102.6	97.3	134.1	147.3	142.0	134.1	126.2
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)