

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: P268745

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268745
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-08-LED-U-SL2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 40602.9 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

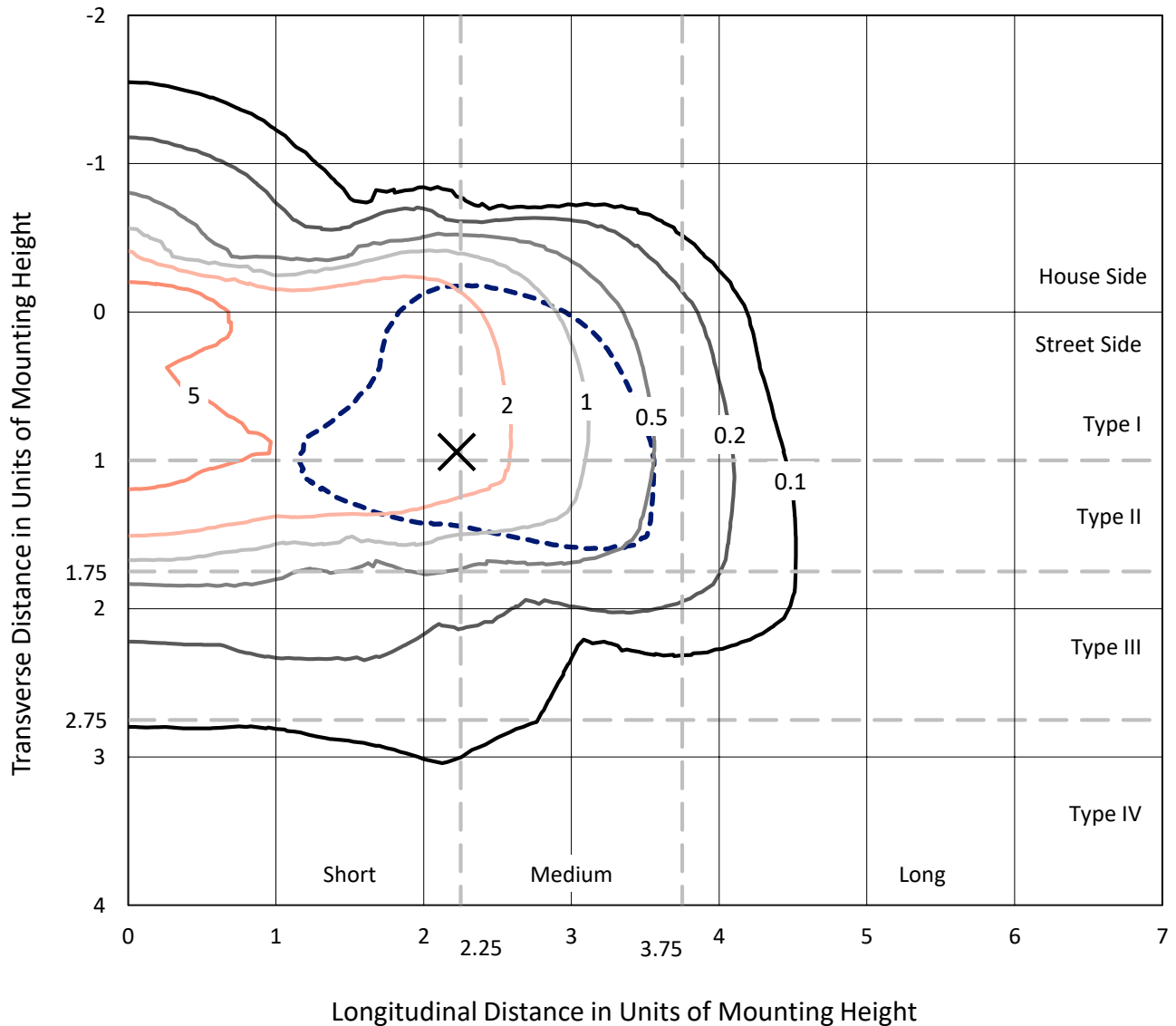
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

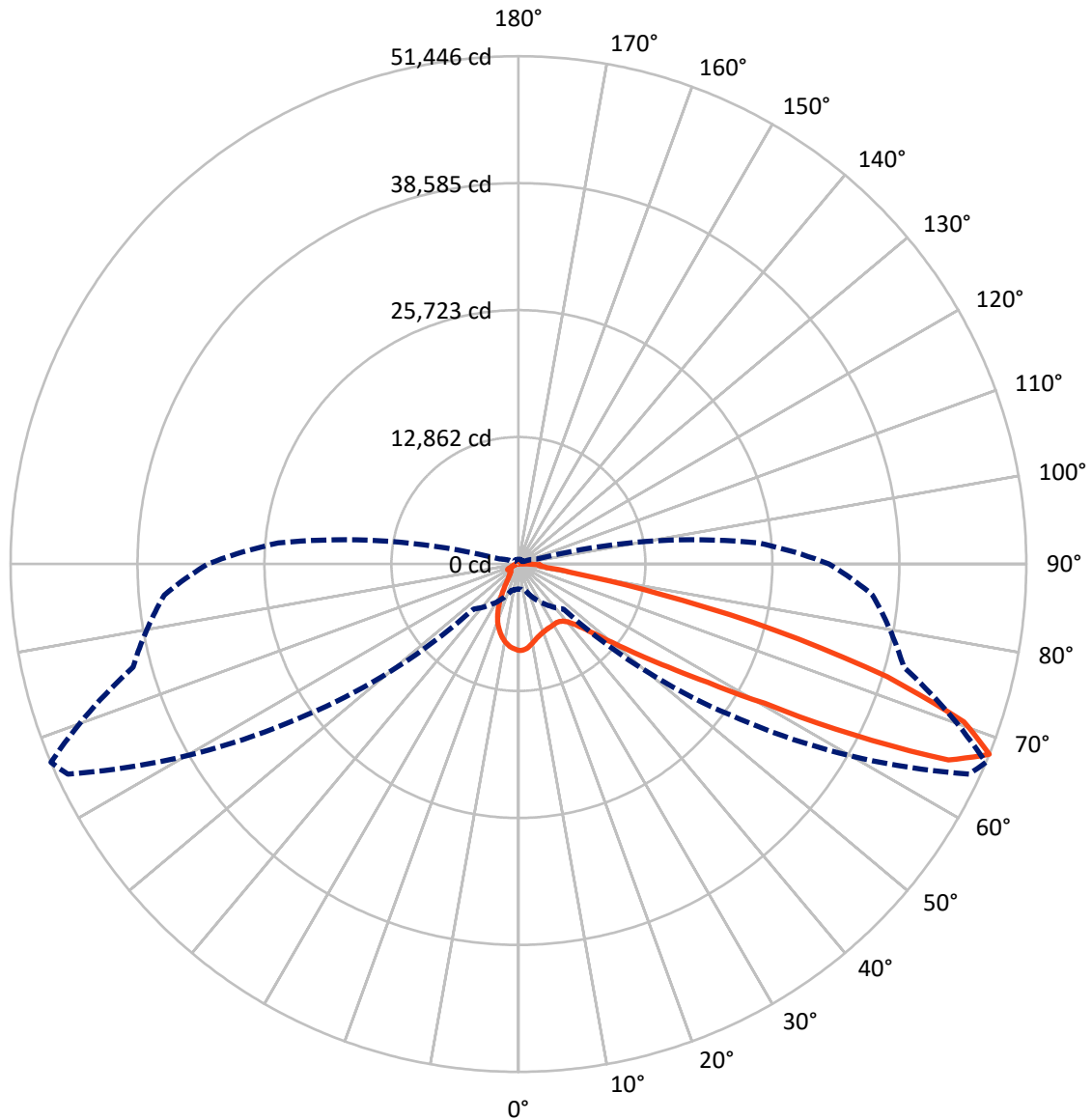
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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	6727.4	0.0	6727.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	33875.4	0.0	33875.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	40602.9	0.0	40602.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.2	1.8
10°-20°	1728.9	4.3
20°-30°	2343.5	5.8
30°-40°	3331.5	8.2
40°-50°	5573.8	13.7
50°-60°	8817.7	21.7
60°-70°	11232.9	27.7
70°-80°	5883.8	14.5
80°-90°	943.6	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°	40602.9	100.0
0°-180°	40602.9	100.0

Coefficient of Utilization



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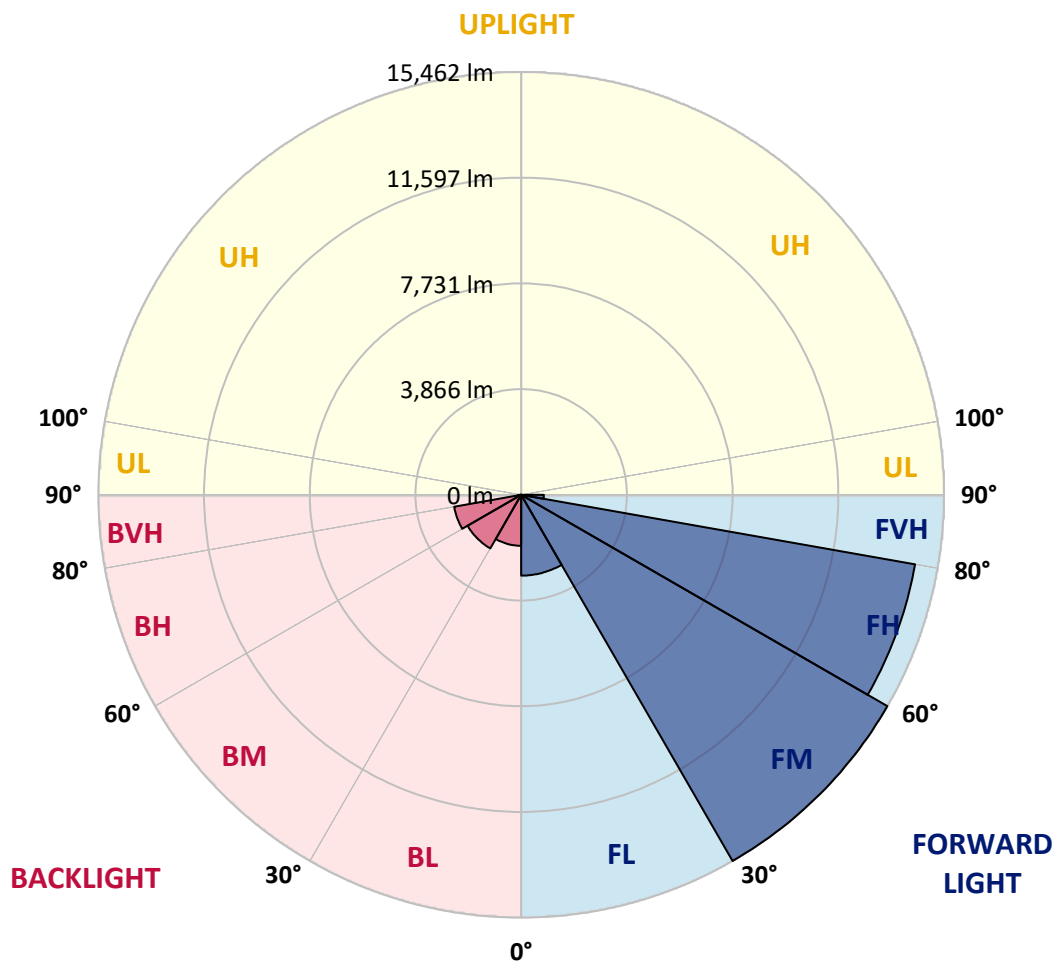
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2954.9	7.3			
FM	(30°-60°)	15462.4	38.1			
FH	(60°-80°)	14628.4	36.0			G5
FVH	(80°-90°)	829.8	2.0			G5
BL	(0°-30°)	1864.7	4.6	B3/2500		
BM	(30°-60°)	2260.6	5.6	B2/2500		
BH	(60°-80°)	2488.3	6.1	B3/2500		G3/2500
BVH	(80°-90°)	113.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9
2.5°	8397.5	8411.5	8455.6	8483.7	8609.7	8663.9	8701.9	8739.9	8746.0	8764.0	8746.0
5°	7516.6	7546.7	7628.6	7720.8	7965.0	8157.2	8359.4	8569.7	8607.7	8743.9	8782.0
7.5°	6833.8	6825.7	6893.9	7003.9	7254.3	7520.5	7874.9	8293.4	8375.4	8681.8	8830.0
10°	6335.1	6329.2	6401.2	6515.3	6753.6	7005.9	7406.4	7979.0	8095.2	8583.8	8876.2
12.5°	5966.8	5968.8	6040.8	6167.0	6409.2	6663.5	7070.0	7674.7	7822.9	8469.6	8924.1
15°	5722.6	5738.6	5796.7	5930.7	6167.0	6421.4	6819.8	7446.5	7612.6	8379.5	8978.2
17.5°	5640.4	5666.5	5686.5	5784.5	5986.8	6241.1	6631.6	7278.2	7454.4	8317.4	9026.3
20°	5716.5	5746.5	5708.5	5742.5	5870.7	6094.9	6483.3	7146.0	7326.3	8247.3	9032.3
22.5°	6042.9	6070.8	5958.7	5860.6	5852.6	5988.8	6361.2	7042.1	7228.2	8195.2	9034.3
25°	6617.5	6635.5	6447.3	6219.1	5996.8	5950.7	6275.1	6969.9	7168.1	8149.2	8996.3
27.5°	7322.4	7336.4	7120.1	6783.7	6337.3	6040.8	6245.0	6927.9	7134.1	8109.2	8932.1
30°	8179.2	8245.4	7955.0	7530.5	6879.8	6307.2	6305.2	6905.8	7096.0	8041.2	8806.1
32.5°	9056.4	9084.3	8884.1	8453.6	7610.6	6775.6	6473.4	6921.9	7086.0	7959.1	8645.7
35°	9945.2	9981.3	9851.3	9504.7	8609.7	7462.5	6801.7	7015.9	7148.2	7931.0	8533.7
37.5°	11096.7	11144.6	10964.4	10564.0	9825.1	8393.6	7348.3	7252.2	7338.3	8011.2	8499.7
40°	12916.6	12894.6	12368.0	11771.4	11154.7	9584.8	8129.2	7652.8	7702.7	8269.3	8603.7
42.5°	15035.1	14981.0	14073.9	13137.0	12616.3	11026.5	9162.4	8347.5	8337.4	8778.0	8970.1
45°	16725.1	16680.9	15864.0	14708.7	14292.3	12668.3	10498.0	9382.6	9308.5	9584.8	9647.0
47.5°	17640.0	17642.1	17171.6	16228.4	16218.4	14754.8	12213.9	10880.4	10752.3	10882.3	10816.3
50°	17319.7	17361.7	17311.6	17011.4	17976.4	17489.9	14454.4	12968.7	12710.5	12838.5	12584.3
52.5°	15769.9	15824.0	16120.4	16580.8	18715.3	20795.7	17746.1	15563.7	15263.3	15217.3	14935.0
55°	13022.8	13088.8	13693.6	14945.0	18100.6	23016.2	22940.0	18871.5	18392.8	17958.3	17838.3
57.5°	8976.3	9086.4	10059.4	11917.5	16112.3	23686.9	29125.0	23586.7	22613.8	21095.9	21124.1
60°	5059.8	5187.9	6335.1	8023.1	12099.7	22958.1	33830.3	30729.0	28674.5	24770.1	24978.5
62.5°	3217.6	3355.8	4226.9	5574.3	7260.2	19033.6	35758.7	40658.1	38049.1	29299.3	29503.6
65°	2604.9	2665.0	3075.4	4601.2	5272.1	11467.0	34295.0	48837.4	47864.4	35047.8	34094.7
67.5°	2542.9	2563.0	2775.1	3862.4	5055.8	6445.2	27355.0	50367.2	51446.4	40416.0	36006.9
70°	2512.9	2582.9	3127.5	3686.1	4841.4	5436.2	16438.7	46174.5	47878.4	41819.4	33462.0
72.5°	1219.4	1215.3	1573.8	3333.8	5454.1	5638.4	8445.5	37360.4	39070.4	36231.2	27497.2
75°	983.1	899.1	859.0	1221.3	5243.9	5822.6	5382.1	25707.2	26944.7	24291.5	16903.1
77.5°	933.1	833.0	762.9	764.8	2216.5	6174.9	4559.2	14228.2	14588.6	10972.4	4631.2
80°	772.9	680.7	630.7	710.7	1073.3	5880.7	4929.5	6439.3	5908.7	2695.1	1541.8
82.5°	536.6	488.6	474.6	596.7	859.0	4190.8	5732.5	3459.9	2901.3	1349.6	951.0
85°	342.3	292.3	324.4	434.5	668.8	1934.2	5904.6	2697.2	2144.4	857.0	536.6
87.5°	158.2	128.2	160.2	240.2	436.4	666.7	5618.4	3029.4	2208.6	452.6	338.4
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°	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9	8757.9
2.5°	8762.0	8723.9	8693.8	8637.8	8575.7	8515.7	8461.7	8393.6	8373.6	8355.5	8383.5
5°	8789.9	8751.9	8641.9	8469.6	8279.4	8101.3	7923.1	7770.8	7676.7	7624.6	7654.6
7.5°	8832.0	8778.0	8549.7	8233.3	7890.9	7578.6	7256.2	6997.9	6807.7	6717.6	6743.7
10°	8870.0	8766.0	8393.6	7919.0	7418.5	6953.9	6445.2	6024.8	5712.5	5548.3	5588.4
12.5°	8886.2	8719.8	8175.3	7526.5	6839.8	6159.0	5410.1	4781.4	4333.0	4168.8	4134.7
15°	8902.2	8667.8	7935.0	7080.0	6141.0	5177.9	4128.7	3375.8	3003.5	2921.3	2903.3
17.5°	8906.2	8577.7	7662.7	6595.4	5322.1	4010.6	2823.3	2344.7	2346.6	2478.9	2494.9
20°	8864.0	8443.6	7332.3	5992.9	4340.9	2773.2	1938.3	1856.1	2158.4	2488.8	2528.9
22.5°	8767.9	8265.3	6957.9	5289.9	3217.6	1826.1	1499.7	1589.8	1980.3	2384.7	2430.8
25°	8645.7	8049.2	6515.3	4475.0	2130.4	1305.4	1257.4	1367.6	1631.9	1902.3	1928.2
27.5°	8479.6	7792.8	6018.9	3542.0	1383.6	1075.2	1107.3	1181.4	1289.4	1409.6	1421.6
30°	8265.3	7486.6	5488.3	2582.9	1045.2	967.0	1013.2	1053.3	1099.3	1167.3	1173.4
32.5°	8019.1	7192.2	4943.6	1784.0	927.1	911.1	947.1	967.0	1003.1	1045.2	1049.2
35°	7812.9	6911.9	4379.0	1261.4	876.9	869.0	893.0	901.0	935.0	981.0	985.1
37.5°	7694.7	6683.6	3796.2	1017.2	843.0	830.9	844.9	844.9	893.0	961.0	971.1
40°	7702.7	6557.4	3213.6	919.1	814.9	799.0	800.8	800.8	863.0	937.0	943.1
42.5°	7921.0	6589.4	2697.2	881.0	792.9	774.9	764.8	770.8	822.9	870.9	874.9
45°	8433.6	6815.7	2212.5	857.0	770.8	764.8	742.9	740.8	760.9	783.0	783.0
47.5°	9274.6	7262.3	1884.1	841.0	752.9	750.9	724.8	698.8	696.7	704.8	704.8
50°	10642.1	8031.1	1663.9	822.9	740.8	724.8	694.7	654.8	640.8	646.7	646.7
52.5°	12692.4	9402.6	1579.8	799.0	714.8	688.8	654.8	614.7	602.8	604.6	604.6
55°	15381.5	11509.1	1567.8	770.8	686.8	644.8	616.6	586.7	572.7	576.6	576.6
57.5°	18667.1	14422.4	1782.0	726.8	648.8	600.6	584.6	564.7	554.7	560.6	558.7
60°	22661.7	18234.8	2643.1	680.7	610.7	560.6	560.6	544.6	536.6	542.7	540.6
62.5°	27263.0	22613.8	3716.2	646.7	570.7	528.7	536.6	528.7	520.6	524.6	522.6
65°	31343.7	25466.9	3479.9	620.6	530.5	498.6	512.7	508.6	502.6	506.6	504.6
67.5°	31461.8	24409.7	1954.3	592.7	492.6	468.6	488.6	486.5	482.6	486.5	484.5
70°	28078.0	20611.4	1101.2	540.6	452.6	432.5	460.6	458.6	454.5	462.5	460.6
72.5°	22495.5	14957.0	804.9	476.6	412.5	394.4	426.4	424.4	424.4	436.4	430.5
75°	12944.7	7696.8	642.7	408.5	370.5	356.4	384.5	386.5	390.5	406.5	394.4
77.5°	3690.1	2398.7	524.6	346.3	318.4	312.3	340.4	344.4	346.3	364.4	348.5
80°	1371.5	1105.3	432.5	290.3	260.2	262.2	288.4	294.4	296.4	314.3	294.4
82.5°	874.9	728.9	350.3	224.2	204.3	202.2	234.3	242.3	242.3	244.2	232.2
85°	510.5	436.4	264.3	162.1	144.2	138.2	174.2	188.3	182.1	178.3	170.1
87.5°	342.3	300.4	162.1	90.1	78.2	74.1	102.0	112.1	108.2	102.0	96.1
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)