

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: P193645

Luminaire Tested: **GAN-AF-07-LED-U-SL2-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193645
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-07-LED-U-SL2-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 36920 lumens
Efficiency: N/A
Efficacy: 82.4 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): 448
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

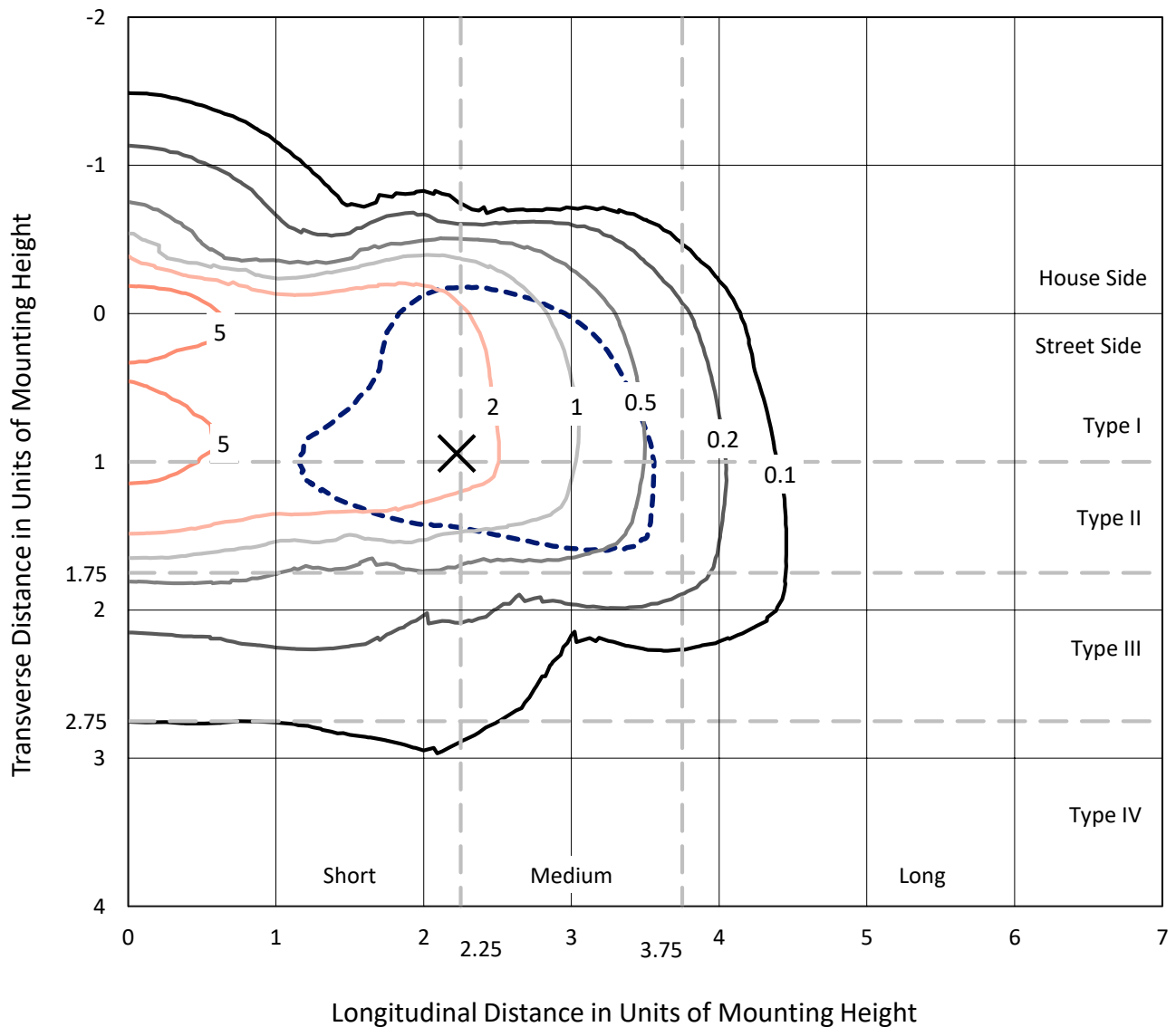


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

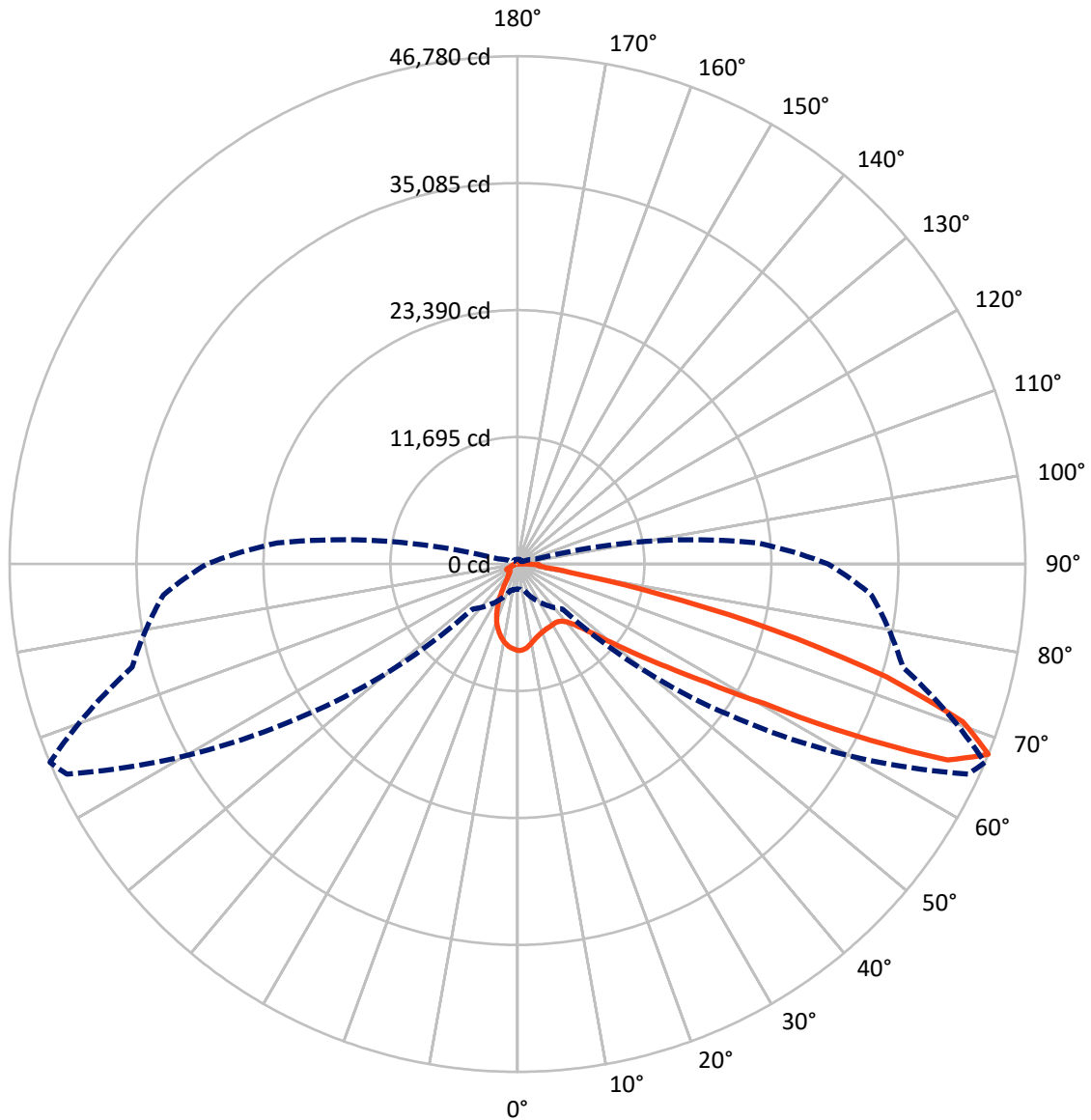


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Semi-Cutoff

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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	6117.2	0.0	6117.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	30802.8	0.0	30802.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	36920.0	0.0	36920.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.4	1.8
10°-20°	1572.0	4.3
20°-30°	2130.9	5.8
30°-40°	3029.4	8.2
40°-50°	5068.2	13.7
50°-60°	8017.9	21.7
60°-70°	10214.0	27.7
70°-80°	5350.1	14.5
80°-90°	858.1	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°	36920.0	100.0
0°-180°	36920.0	100.0



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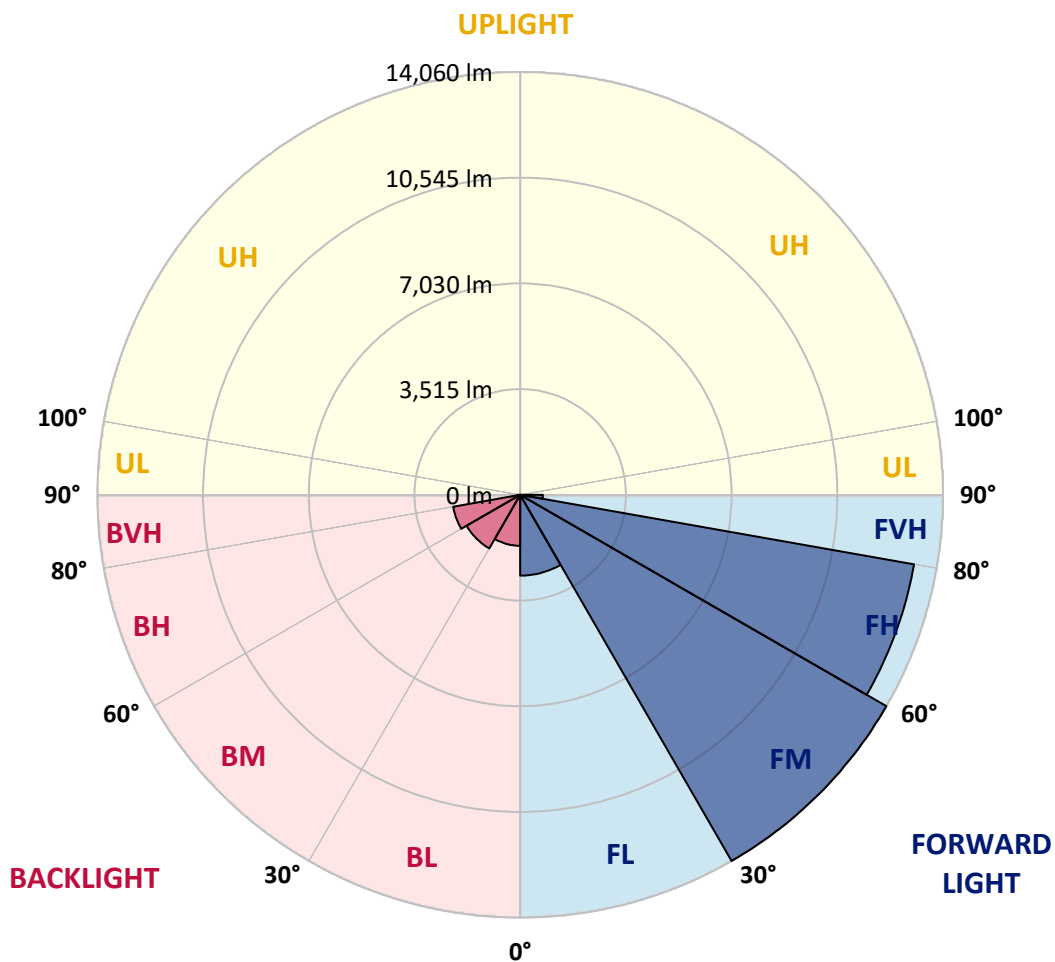
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2686.9	7.3			
FM (30°-60°)	14059.9	38.1			
FH (60°-80°)	13301.5	36.0			G5
FVH (80°-90°)	754.5	2.0			G5
BL (0°-30°)	1695.5	4.6	B3/2500		
BM (30°-60°)	2055.6	5.6	B2/2500		
BH (60°-80°)	2262.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	103.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6
2.5°	7635.8	7648.6	7688.6	7714.1	7828.8	7878.0	7912.6	7947.2	7952.6	7969.0	7952.6
5°	6834.7	6862.1	6936.7	7020.5	7242.6	7417.4	7601.2	7792.4	7827.0	7950.8	7985.4
7.5°	6213.9	6206.6	6268.5	6368.7	6596.2	6838.4	7160.6	7541.2	7615.8	7894.4	8029.1
10°	5760.6	5755.1	5820.6	5924.4	6141.1	6370.5	6734.6	7255.3	7360.9	7805.2	8071.0
12.5°	5425.6	5427.4	5492.9	5607.6	5827.9	6059.1	6428.7	6978.6	7113.3	7701.4	8114.7
15°	5203.4	5218.0	5270.8	5392.8	5607.6	5838.8	6201.2	6771.0	6922.1	7619.4	8163.8
17.5°	5128.8	5152.5	5170.7	5259.9	5443.8	5675.0	6030.0	6618.1	6778.3	7563.0	8207.5
20°	5198.0	5225.3	5190.7	5221.6	5338.2	5542.1	5895.3	6497.9	6661.8	7499.3	8213.0
22.5°	5494.7	5520.2	5418.3	5329.1	5321.8	5445.6	5784.2	6403.3	6572.6	7451.9	8214.8
25°	6017.3	6033.7	5862.5	5655.0	5452.9	5411.0	5705.9	6337.7	6518.0	7410.1	8180.2
27.5°	6658.1	6670.9	6474.3	6168.4	5762.4	5492.9	5678.6	6299.5	6487.0	7373.7	8122.0
30°	7437.4	7497.5	7233.5	6847.5	6255.8	5735.1	5733.2	6279.4	6452.4	7311.8	8007.2
32.5°	8234.8	8260.3	8078.3	7686.8	6920.3	6161.1	5886.2	6294.0	6443.3	7237.1	7861.6
35°	9043.2	9076.0	8957.6	8642.7	7828.8	6785.6	6184.8	6379.6	6499.7	7211.6	7759.6
37.5°	10090.1	10133.8	9969.9	9605.8	8934.0	7632.2	6681.8	6594.4	6672.7	7284.4	7728.7
40°	11745.1	11725.0	11246.2	10703.6	10142.9	8715.5	7391.9	6958.6	7004.1	7519.3	7823.4
42.5°	13671.3	13622.2	12797.4	11945.3	11472.0	10026.4	8331.3	7590.3	7581.2	7981.8	8156.5
45°	15207.9	15167.9	14425.1	13374.5	12995.8	11519.3	9545.7	8531.6	8464.2	8715.5	8771.9
47.5°	16040.0	16041.8	15614.0	14756.4	14747.3	13416.4	11106.0	9893.4	9776.9	9895.3	9835.2
50°	15748.7	15786.9	15741.4	15468.3	16345.9	15903.4	13143.3	11792.4	11557.5	11674.1	11442.8
52.5°	14339.5	14388.7	14658.1	15076.9	17017.7	18909.3	16136.5	14152.0	13878.9	13837.0	13580.3
55°	11841.6	11901.6	12451.5	13589.4	16458.7	20928.5	20859.3	17159.7	16724.6	16329.5	16220.2
57.5°	8162.0	8262.1	9147.0	10836.6	14650.8	21538.4	26483.3	21447.3	20562.5	19182.4	19207.9
60°	4600.8	4717.3	5760.6	7295.4	11002.2	20875.7	30761.8	27941.6	26073.6	22523.3	22712.7
62.5°	2925.8	3051.4	3843.4	5068.7	6601.7	17307.2	32515.1	36970.3	34597.9	26641.7	26827.4
65°	2368.7	2423.3	2796.5	4183.9	4793.8	10426.9	31184.2	44407.6	43522.8	31868.8	31002.1
67.5°	2312.2	2330.4	2523.4	3512.0	4597.2	5860.7	24873.8	45798.6	46780.0	36750.0	32740.9
70°	2284.9	2348.6	2843.9	3351.8	4402.3	4943.1	14947.6	41986.2	43535.5	38026.2	30426.8
72.5°	1108.8	1105.1	1431.0	3031.4	4959.5	5127.0	7679.5	33971.6	35526.5	32944.8	25003.1
75°	893.9	817.5	781.1	1110.6	4768.3	5294.5	4893.9	23375.4	24500.6	22088.2	15370.0
77.5°	848.4	757.4	693.7	695.5	2015.5	5614.9	4145.6	12937.6	13265.3	9977.2	4211.2
80°	702.8	619.0	573.5	646.3	975.9	5347.3	4482.5	5855.2	5372.8	2450.6	1401.9
82.5°	487.9	444.2	431.5	542.6	781.1	3810.6	5212.5	3146.1	2638.1	1227.1	864.8
85°	311.3	265.8	294.9	395.1	608.1	1758.8	5369.1	2452.4	1949.9	779.2	487.9
87.5°	143.8	116.5	145.7	218.5	396.9	606.3	5108.8	2754.7	2008.2	411.5	307.7
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°	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6	7963.6
2.5°	7967.2	7932.6	7905.3	7854.3	7797.9	7743.3	7694.1	7632.2	7614.0	7597.6	7623.1
5°	7992.7	7958.1	7858.0	7701.4	7528.4	7366.4	7204.3	7066.0	6980.4	6933.1	6960.4
7.5°	8030.9	7981.8	7774.2	7486.5	7175.2	6891.2	6598.1	6363.2	6190.2	6108.3	6132.0
10°	8065.5	7970.8	7632.2	7200.7	6745.5	6323.1	5860.7	5478.4	5194.3	5045.0	5081.5
12.5°	8080.1	7929.0	7433.7	6843.8	6219.4	5600.3	4919.4	4347.7	3939.9	3790.6	3759.7
15°	8094.6	7881.6	7215.3	6437.8	5584.0	4708.2	3754.2	3069.6	2731.0	2656.3	2640.0
17.5°	8098.3	7799.7	6967.7	5997.2	4839.3	3646.8	2567.1	2132.0	2133.8	2254.0	2268.5
20°	8060.0	7677.7	6667.2	5449.2	3947.2	2521.6	1762.4	1687.7	1962.7	2263.1	2299.5
22.5°	7972.7	7515.7	6326.8	4810.2	2925.8	1660.4	1363.7	1445.6	1800.6	2168.4	2210.3
25°	7861.6	7319.0	5924.4	4069.2	1937.2	1187.1	1143.4	1243.5	1483.8	1729.6	1753.3
27.5°	7710.5	7086.0	5472.9	3220.7	1258.1	977.7	1006.8	1074.2	1172.5	1281.7	1292.7
30°	7515.7	6807.4	4990.4	2348.6	950.4	879.4	921.3	957.7	999.5	1061.4	1066.9
32.5°	7291.7	6539.8	4495.2	1622.2	843.0	828.4	861.2	879.4	912.1	950.4	954.0
35°	7104.2	6284.9	3981.8	1147.0	797.4	790.2	812.0	819.3	850.2	892.1	895.8
37.5°	6996.8	6077.4	3452.0	924.9	766.5	755.6	768.3	768.3	812.0	873.9	883.0
40°	7004.1	5962.7	2922.2	835.7	741.0	726.4	728.3	728.3	784.7	852.1	857.5
42.5°	7202.5	5991.8	2452.4	801.1	721.0	704.6	695.5	701.0	748.3	792.0	795.6
45°	7668.6	6197.5	2011.8	779.2	701.0	695.5	675.5	673.6	691.8	711.9	711.9
47.5°	8433.3	6603.5	1713.2	764.7	684.6	682.7	659.1	635.4	633.6	640.9	640.9
50°	9676.8	7302.7	1513.0	748.3	673.6	659.1	631.8	595.4	582.6	588.1	588.1
52.5°	11541.1	8549.8	1436.5	726.4	650.0	626.3	595.4	558.9	548.0	549.8	549.8
55°	13986.3	10465.1	1425.6	701.0	624.5	586.3	560.8	533.5	520.7	524.3	524.3
57.5°	16974.0	13114.2	1620.4	660.9	589.9	546.2	531.6	513.4	504.3	509.8	508.0
60°	20606.2	16580.7	2403.3	619.0	555.3	509.8	509.8	495.2	487.9	493.4	491.6
62.5°	24790.1	20562.5	3379.1	588.1	518.9	480.7	487.9	480.7	473.4	477.0	475.2
65°	28500.6	23156.9	3164.3	564.4	482.5	453.3	466.1	462.4	457.0	460.6	458.8
67.5°	28608.0	22195.6	1777.0	538.9	447.9	426.0	444.2	442.4	438.8	442.4	440.6
70°	25531.1	18741.8	1001.4	491.6	411.5	393.3	418.8	416.9	413.3	420.6	418.8
72.5°	20455.1	13600.3	731.9	433.3	375.1	358.7	387.8	386.0	386.0	396.9	391.4
75°	11770.5	6998.6	584.4	371.4	336.8	324.1	349.6	351.4	355.0	369.6	358.7
77.5°	3355.5	2181.1	477.0	315.0	289.5	284.0	309.5	313.2	315.0	331.4	316.8
80°	1247.2	1005.0	393.3	264.0	236.7	238.5	262.2	267.6	269.5	285.8	267.6
82.5°	795.6	662.7	318.6	203.9	185.7	183.9	213.0	220.3	220.3	222.1	211.2
85°	464.3	396.9	240.3	147.5	131.1	125.6	158.4	171.1	165.7	162.0	154.8
87.5°	311.3	273.1	147.5	81.9	71.0	67.4	92.9	102.0	98.3	92.9	87.4
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)