

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: P268908

Luminaire Tested: **GAN-AF-10-LED-U-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268908
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-10-LED-U-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 40514.6 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

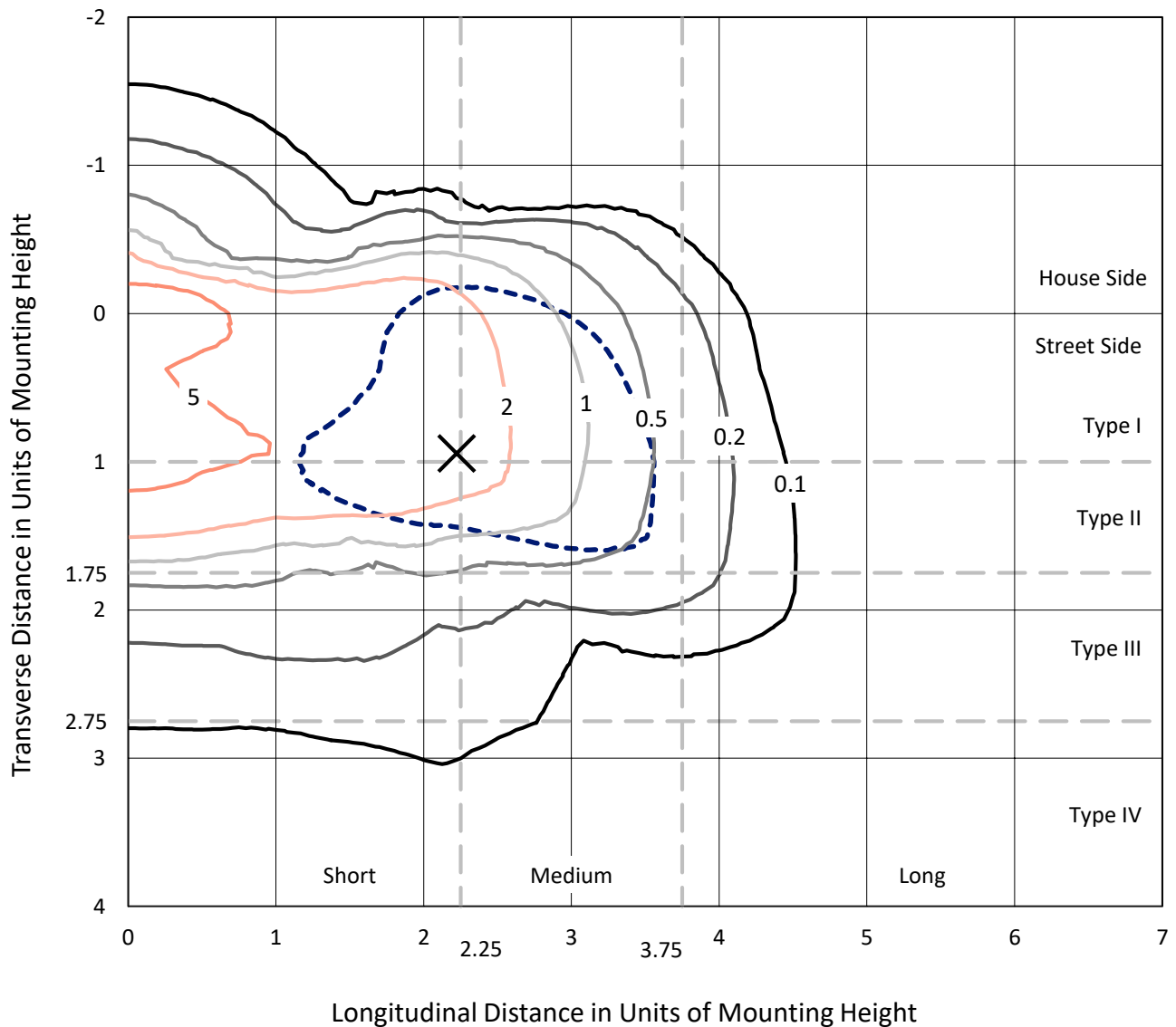
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

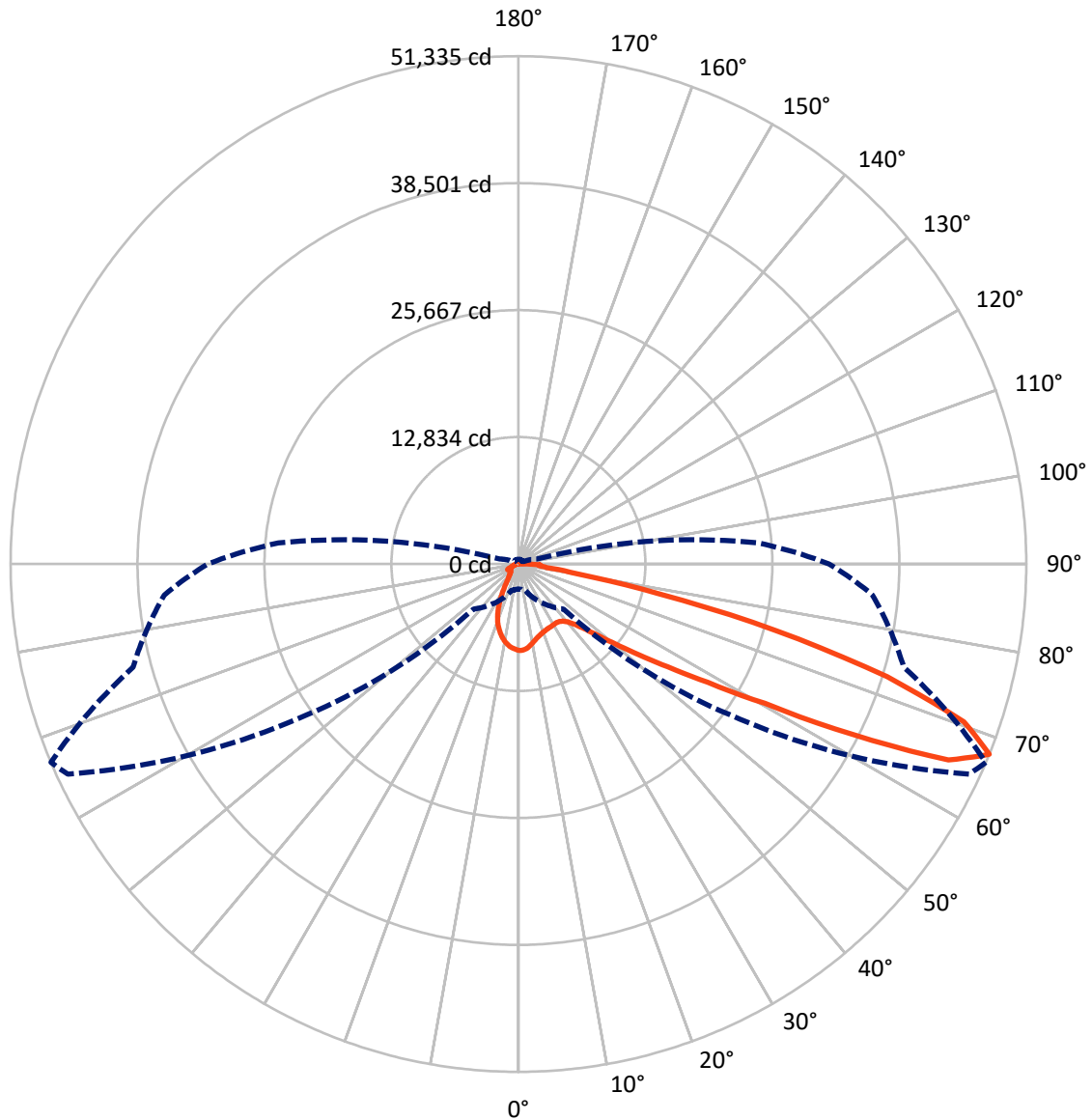
× Max cd
 - - - 1/2 Max cd



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	6712.8	0.0	6712.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	33801.8	0.0	33801.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	40514.6	0.0	40514.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.6	1.8
10°-20°	1725.1	4.3
20°-30°	2338.4	5.8
30°-40°	3324.3	8.2
40°-50°	5561.7	13.7
50°-60°	8798.5	21.7
60°-70°	11208.4	27.7
70°-80°	5871.0	14.5
80°-90°	941.6	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°	40514.6	100.0
0°-180°	40514.6	100.0

Coefficient of Utilization



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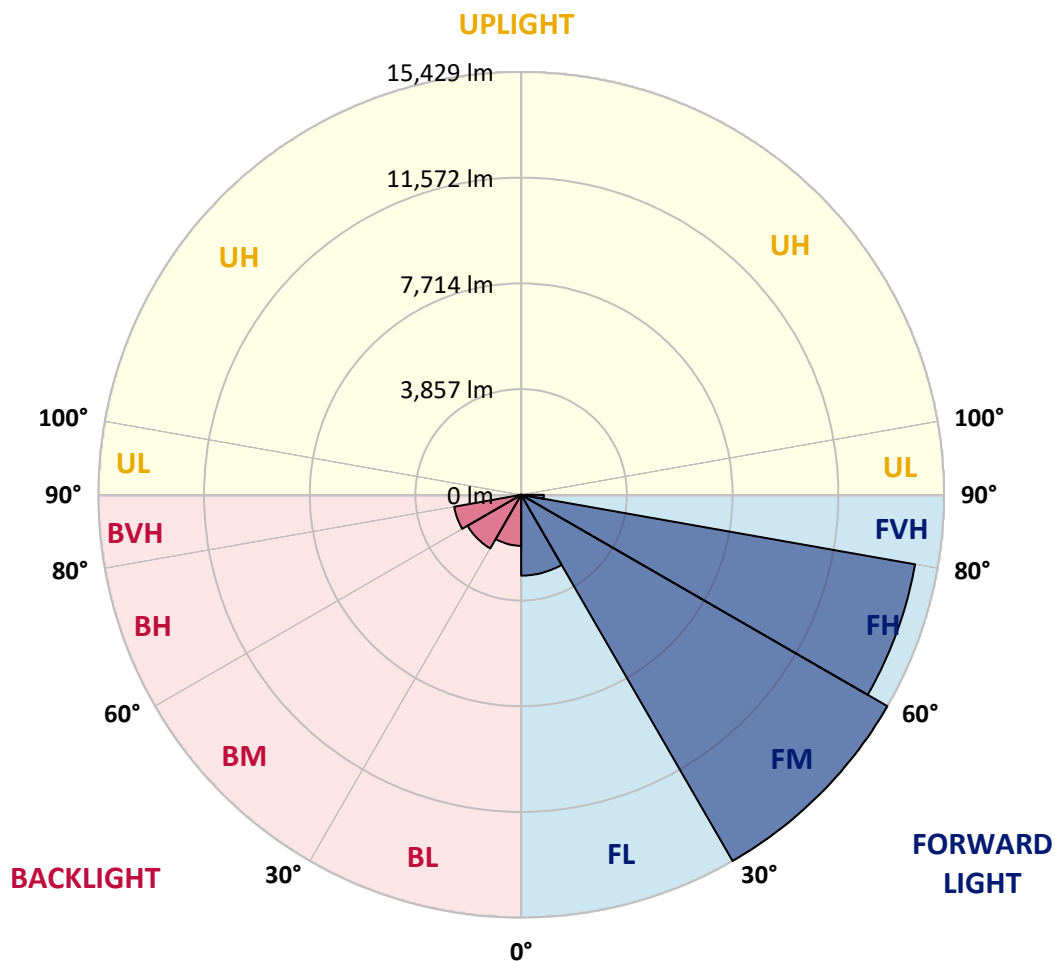
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2948.5	7.3			
FM (30°-60°)	15428.8	38.1			
FH (60°-80°)	14596.5	36.0			G5
FVH (80°-90°)	827.9	2.0			G5
BL (0°-30°)	1860.6	4.6	B3/2500		
BM (30°-60°)	2255.7	5.6	B2/2500		
BH (60°-80°)	2482.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	113.6	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°	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9
2.5°	8379.3	8393.3	8437.2	8465.2	8591.0	8645.0	8682.9	8720.9	8726.9	8744.9	8726.9
5°	7500.2	7530.1	7612.1	7704.0	7947.8	8139.5	8341.3	8551.1	8589.1	8724.9	8762.8
7.5°	6818.9	6810.9	6878.9	6988.8	7238.5	7504.3	7857.8	8275.4	8357.3	8663.0	8810.8
10°	6321.5	6315.4	6387.4	6501.3	6738.9	6990.7	7390.3	7961.7	8077.6	8565.1	8856.7
12.5°	5953.7	5955.9	6027.6	6153.6	6395.4	6649.1	7054.7	7658.1	7805.8	8451.3	8904.7
15°	5710.0	5726.1	5783.9	5917.9	6153.6	6407.3	6804.9	7430.3	7596.1	8361.2	8958.6
17.5°	5628.2	5654.1	5674.1	5772.0	5973.8	6227.5	6617.2	7262.4	7438.2	8299.4	9006.6
20°	5704.1	5734.1	5696.1	5730.0	5857.8	6081.6	6469.2	7130.6	7310.3	8229.5	9012.6
22.5°	6029.8	6057.7	5945.8	5847.8	5839.9	5975.7	6347.3	7026.7	7212.5	8177.5	9014.6
25°	6603.1	6621.0	6433.3	6205.5	5983.8	5937.7	6261.5	6954.8	7152.6	8131.5	8976.7
27.5°	7306.4	7320.4	7104.5	6769.0	6323.3	6027.6	6231.5	6912.7	7118.6	8091.6	8912.8
30°	8161.6	8227.4	7937.8	7514.1	6864.8	6293.4	6291.5	6890.8	7080.6	8023.7	8786.9
32.5°	9036.6	9064.5	8864.7	8435.3	7594.1	6761.0	6459.3	6906.8	7070.6	7941.7	8627.1
35°	9923.7	9959.6	9829.8	9484.1	8591.0	7446.2	6787.0	7000.8	7132.5	7913.8	8515.2
37.5°	11072.5	11120.4	10940.5	10541.0	9803.8	8375.3	7332.3	7236.4	7322.4	7993.7	8481.2
40°	12888.6	12866.7	12341.2	11745.8	11130.4	9564.1	8111.5	7636.0	7686.0	8251.4	8585.0
42.5°	15002.4	14948.4	14043.4	13108.3	12588.8	11002.5	9142.5	8329.4	8319.4	8758.8	8950.7
45°	16688.6	16644.7	15829.6	14676.7	14261.1	12640.8	10475.0	9362.2	9288.4	9564.1	9626.0
47.5°	17601.7	17603.6	17134.1	16193.1	16183.1	14722.6	12187.3	10856.6	10728.8	10858.7	10792.7
50°	17282.0	17324.0	17274.0	16974.4	17937.3	17451.8	14422.9	12940.5	12682.8	12810.6	12556.9
52.5°	15735.6	15789.6	16085.2	16544.8	18674.5	20750.4	17707.6	15529.8	15230.1	15184.2	14902.5
55°	12994.4	13060.4	13663.8	14912.5	18061.2	22966.1	22890.2	18830.5	18352.9	17919.3	17799.5
57.5°	8956.7	9066.6	10037.5	11891.7	16077.2	23635.3	29061.7	23535.5	22564.4	21050.1	21078.0
60°	5048.7	5176.7	6321.5	8005.6	12073.4	22908.1	33756.8	30662.0	28612.2	24716.2	24924.1
62.5°	3210.6	3348.5	4217.6	5562.2	7244.4	18992.2	35680.8	40569.8	37966.4	29235.6	29439.3
65°	2599.2	2659.3	3068.8	4591.1	5260.6	11442.2	34220.4	48731.3	47760.2	34971.6	34020.5
67.5°	2537.4	2557.4	2769.1	3854.0	5044.7	6431.2	27295.5	50257.7	51334.5	40328.0	35928.6
70°	2507.3	2577.2	3120.7	3678.2	4830.9	5424.3	16403.0	46074.0	47774.2	41728.5	33389.2
72.5°	1216.8	1212.7	1570.3	3326.6	5442.3	5626.2	8427.2	37279.1	38985.5	36152.3	27437.4
75°	980.9	897.0	857.2	1218.7	5232.5	5810.0	5370.3	25651.3	26886.0	24238.7	16866.4
77.5°	931.1	831.1	761.3	763.2	2211.6	6161.6	4549.2	14197.3	14556.9	10948.6	4621.2
80°	771.1	679.3	629.4	709.2	1070.9	5867.9	4918.8	6425.2	5895.8	2689.2	1538.3
82.5°	535.4	487.5	473.4	595.3	857.2	4181.6	5720.0	3452.4	2895.0	1346.6	949.0
85°	341.6	291.7	323.7	433.5	667.4	1930.0	5891.9	2691.2	2139.8	855.0	535.4
87.5°	157.8	127.9	159.8	239.8	435.6	665.4	5606.1	3022.8	2203.7	451.5	337.7
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°	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9	8738.9
2.5°	8742.9	8704.9	8674.9	8619.0	8557.1	8497.2	8443.2	8375.3	8355.2	8337.3	8365.2
5°	8770.8	8733.0	8623.0	8451.3	8261.4	8083.6	7905.8	7753.9	7659.9	7608.0	7638.1
7.5°	8812.8	8758.8	8531.2	8215.4	7873.9	7562.1	7240.5	6982.7	6793.0	6703.1	6729.1
10°	8850.8	8746.8	8375.3	7901.9	7402.4	6938.8	6431.2	6011.7	5700.0	5536.3	5576.1
12.5°	8866.8	8701.0	8157.5	7510.2	6825.0	6145.7	5398.4	4771.0	4323.5	4159.7	4125.6
15°	8882.7	8649.1	7917.8	7064.6	6127.6	5166.6	4119.6	3368.5	2996.8	2915.0	2896.9
17.5°	8886.8	8559.1	7646.1	6581.2	5310.5	4001.8	2817.1	2339.5	2341.5	2473.5	2489.5
20°	8844.8	8425.3	7316.3	5979.7	4331.4	2767.0	1934.1	1852.0	2153.7	2483.5	2523.3
22.5°	8749.0	8247.3	6942.8	5278.5	3210.6	1822.1	1496.4	1586.3	1975.9	2379.5	2425.5
25°	8627.1	8031.7	6501.3	4465.4	2125.7	1302.6	1254.8	1364.5	1628.3	1897.9	1924.0
27.5°	8461.1	7775.9	6005.8	3534.3	1380.5	1072.8	1104.8	1178.8	1286.6	1406.6	1418.6
30°	8247.3	7470.2	5476.2	2577.2	1042.9	965.0	1011.0	1050.8	1096.9	1164.8	1170.9
32.5°	8001.7	7176.5	4932.9	1780.1	925.1	909.1	944.9	965.0	1000.9	1042.9	1047.0
35°	7795.9	6896.7	4369.4	1258.6	875.0	867.1	891.1	899.1	933.0	979.1	982.9
37.5°	7678.1	6669.0	3788.1	1014.9	841.2	829.1	843.1	843.1	891.1	959.0	969.0
40°	7686.0	6543.2	3206.7	917.0	813.1	797.2	799.1	799.1	861.0	935.0	941.1
42.5°	7903.7	6575.1	2691.2	879.1	791.1	773.3	763.2	769.2	821.1	869.1	873.2
45°	8415.2	6800.9	2207.8	855.0	769.2	763.2	741.2	739.2	759.2	781.2	781.2
47.5°	9254.3	7246.4	1880.1	839.1	751.3	749.2	723.2	697.3	695.3	703.3	703.3
50°	10619.0	8013.7	1660.2	821.1	739.2	723.2	693.3	653.2	639.4	645.3	645.3
52.5°	12664.8	9382.2	1576.3	797.2	713.3	687.4	653.2	613.4	601.3	603.4	603.4
55°	15348.0	11484.0	1564.4	769.2	685.2	643.4	615.3	585.3	571.4	575.5	575.5
57.5°	18626.5	14390.9	1778.1	725.2	647.3	599.3	583.4	563.3	553.4	559.5	557.4
60°	22612.5	18195.0	2637.2	679.3	609.4	559.5	559.5	543.5	535.4	541.5	539.4
62.5°	27203.6	22564.4	3708.2	645.3	569.4	527.5	535.4	527.5	519.5	523.4	521.5
65°	31275.4	25411.6	3472.4	619.3	529.5	497.5	511.5	507.5	501.4	505.4	503.5
67.5°	31393.2	24356.6	1950.0	591.4	491.6	467.5	487.5	485.5	481.5	485.5	483.5
70°	28016.8	20566.5	1098.8	539.4	451.5	431.5	459.6	457.5	453.6	461.5	459.6
72.5°	22446.6	14924.4	803.2	475.6	411.6	393.5	425.5	423.6	423.6	435.6	429.6
75°	12916.5	7680.0	641.3	407.7	369.7	355.5	383.5	385.6	389.5	405.6	393.5
77.5°	3682.2	2393.5	523.4	345.7	317.7	311.7	339.6	343.6	345.7	363.6	347.6
80°	1368.6	1102.8	431.5	289.8	259.7	261.8	287.6	293.7	295.7	313.7	293.7
82.5°	873.2	727.3	349.6	223.8	203.7	201.8	233.7	241.7	241.7	243.7	231.8
85°	509.5	435.6	263.7	161.9	143.9	137.9	173.8	187.7	181.7	177.9	169.8
87.5°	341.6	299.7	161.9	89.9	78.0	73.9	101.9	111.8	107.8	101.9	95.8
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)