

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: McGRAW-EDISON

Report Number: P383603

Luminaire Tested: **GLEON-SA8D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58275.8 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

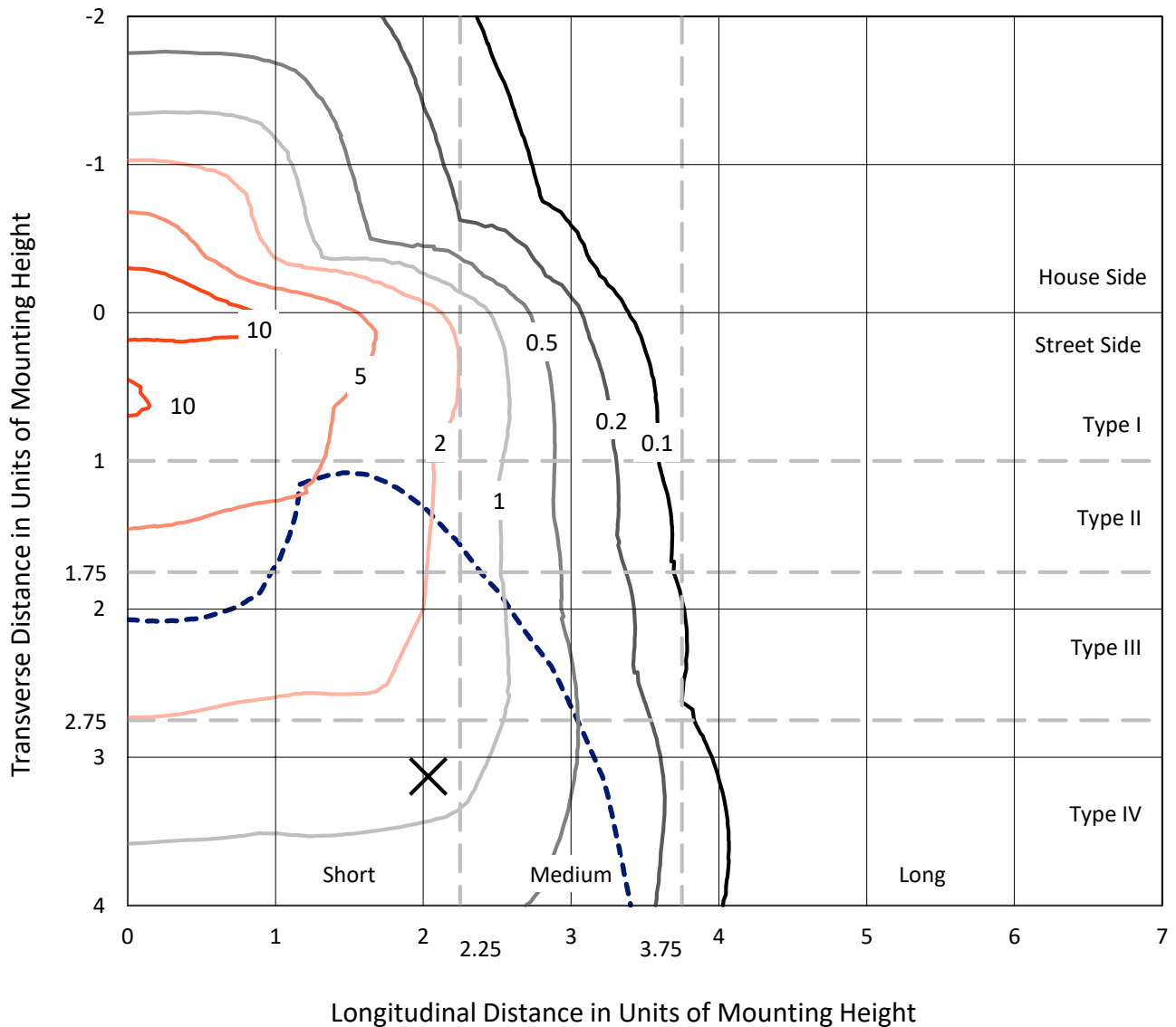
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

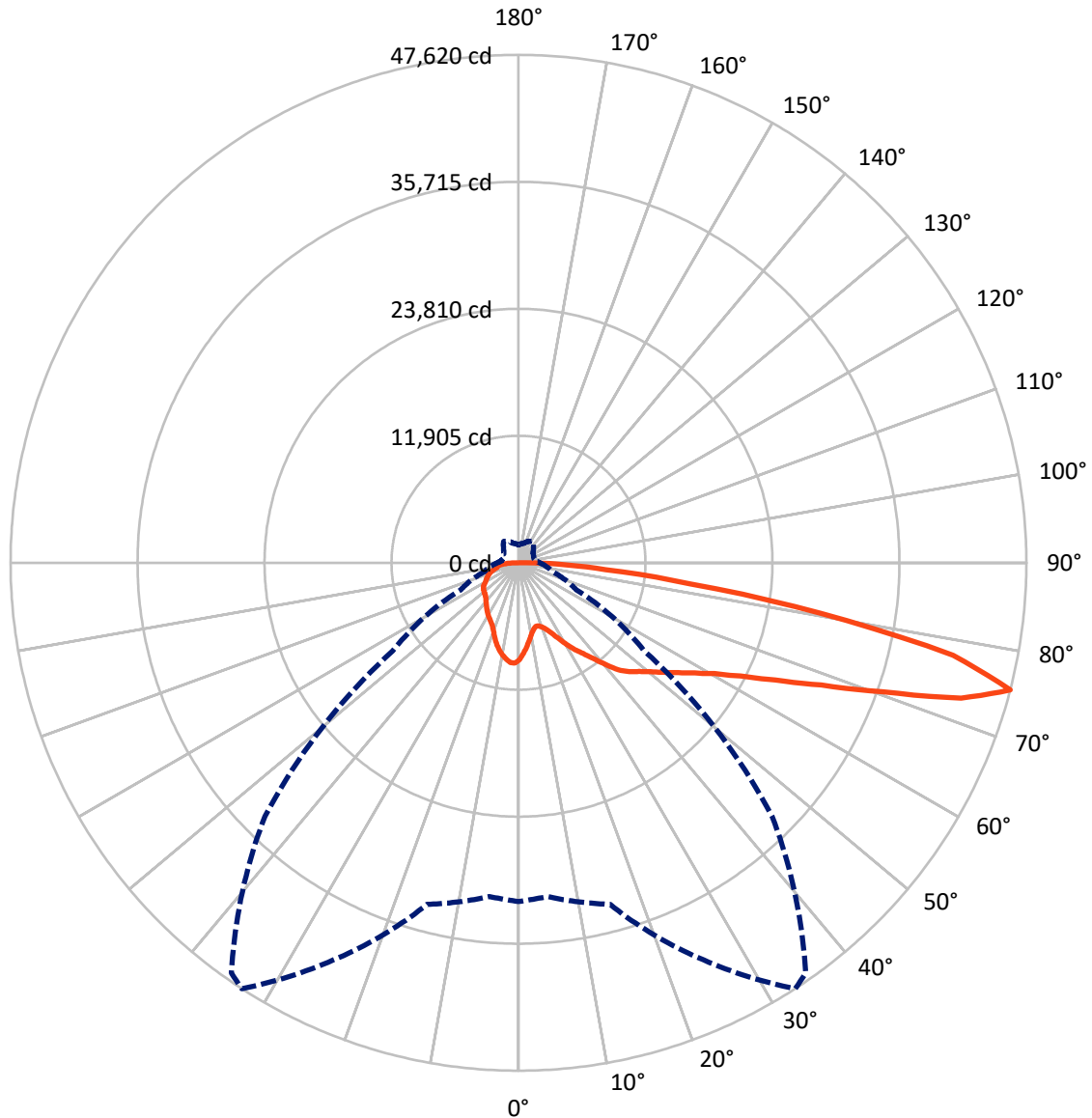
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12513.3	0.0	12513.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	45762.4	0.0	45762.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	58275.8	0.0	58275.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.8	1.4
10°-20°	2231.1	3.8
20°-30°	3643.8	6.3
30°-40°	5426.4	9.3
40°-50°	7783.0	13.4
50°-60°	10684.8	18.3
60°-70°	13377.0	23.0
70°-80°	12101.5	20.8
80°-90°	2204.4	3.8
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°	58275.8	100.0
0°-180°	58275.8	100.0

Coefficient of Utilization

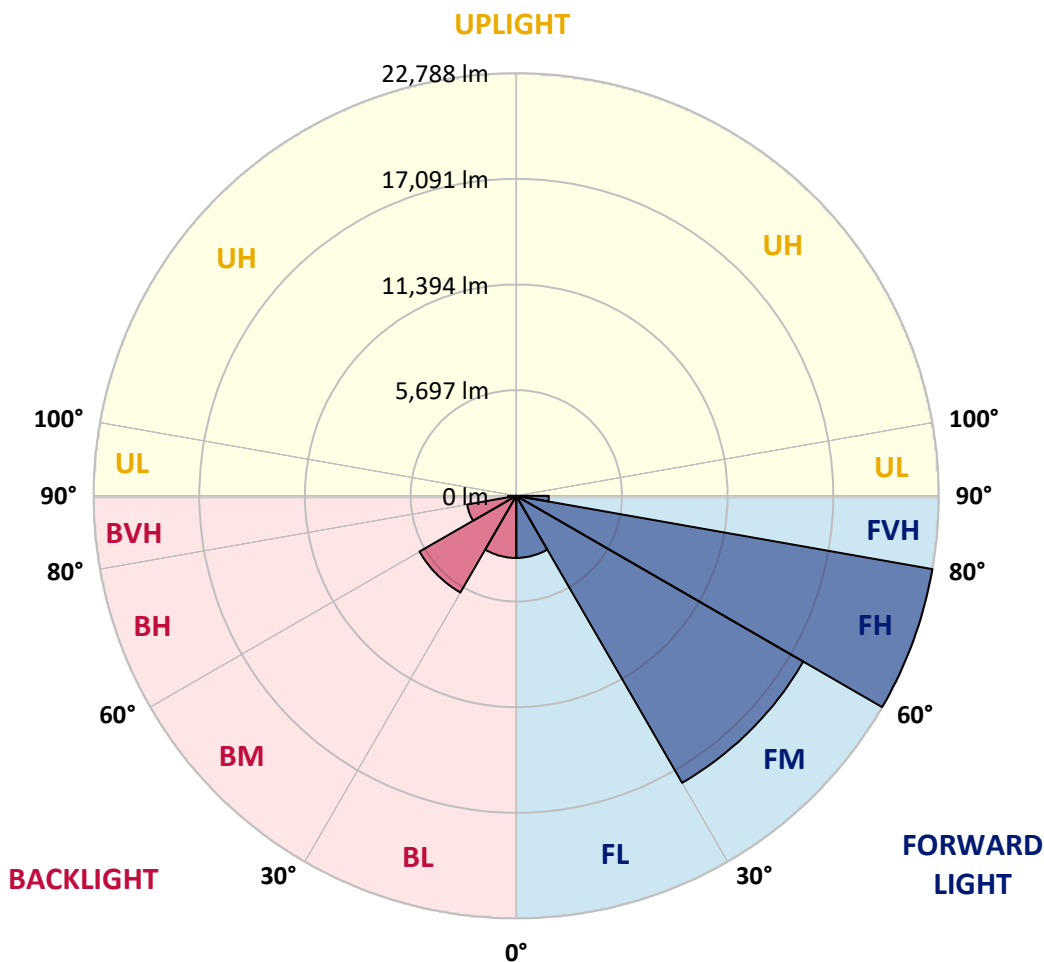


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3347.0	5.7			
FM (30°-60°)	17872.0	30.7			
FH (60°-80°)	22787.8	39.1			G5
FVH (80°-90°)	1755.6	3.0			G5
BL (0°-30°)	3351.6	5.8	B4/5000		
BM (30°-60°)	6022.3	10.3	B4/8500		
BH (60°-80°)	2690.6	4.6	B4/5000		G4/5000
BVH (80°-90°)	448.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9
2.5°	8458.6	8426.4	8486.8	8494.9	8547.2	8567.4	8639.8	8752.5	8845.1	8951.8	9048.4
5°	7691.7	7669.5	7754.1	7814.5	7929.2	7977.5	8148.6	8388.2	8601.5	8843.1	9062.6
7.5°	6962.9	6950.9	7045.5	7182.4	7315.3	7381.7	7677.6	8025.8	8382.2	8772.7	9108.9
10°	6349.0	6345.0	6435.6	6570.4	6765.7	6840.2	7222.7	7681.6	8180.9	8718.3	9187.3
12.5°	6004.8	6018.9	6061.1	6173.8	6355.0	6429.5	6854.2	7393.8	8011.8	8700.2	9302.1
15°	6089.3	6111.5	6039.0	6034.9	6163.8	6222.2	6620.8	7188.4	7891.0	8730.4	9469.2
17.5°	6449.7	6453.7	6262.4	6141.7	6220.1	6250.4	6548.3	7071.7	7820.5	8798.8	9678.5
20°	6956.9	6946.8	6608.7	6407.4	6449.7	6457.7	6651.0	7073.7	7814.5	8917.6	9950.2
22.5°	7629.3	7554.8	7099.9	6826.1	6816.0	6803.9	6914.7	7222.7	7903.1	9110.8	10274.3
25°	8507.0	8436.5	7810.5	7436.0	7355.5	7325.3	7341.4	7540.7	8078.2	9318.2	10636.7
27.5°	9483.2	9360.5	8756.5	8227.1	8060.0	8017.7	7921.1	7989.6	8269.4	9517.4	11067.4
30°	10300.5	10234.1	9706.7	9078.7	8881.4	8821.0	8567.4	8492.8	8545.2	9789.3	11611.0
32.5°	10757.5	10713.2	10393.1	9885.9	9702.6	9618.1	9259.8	9110.8	8988.0	10218.0	12347.8
35°	11311.0	11282.9	11089.6	10721.3	10449.4	10361.0	10083.2	9928.2	9612.1	10807.8	13299.9
37.5°	12015.6	11985.4	11989.4	11691.5	11367.4	11284.9	11101.7	10938.6	10421.3	11582.8	14334.6
40°	12812.8	12754.4	12732.2	12718.1	12512.8	12466.5	12369.9	12148.5	11435.9	12508.8	15355.2
42.5°	14012.5	13805.2	13362.3	13529.3	13732.7	13708.6	13787.0	13469.0	12563.1	13603.9	16351.6
45°	15170.0	14829.8	14064.9	14101.0	14545.9	14680.8	15268.6	15043.2	13785.0	14803.6	17382.3
47.5°	15697.4	15439.7	14789.5	14791.5	15232.4	15512.2	16800.5	16639.5	15069.4	16166.4	18640.4
50°	16287.2	16029.5	15445.7	15665.2	16049.6	16347.5	18280.0	18197.5	16291.2	17658.0	20148.2
52.5°	16931.3	16494.5	16124.2	16516.7	17056.2	17402.4	19761.7	19536.1	17412.5	19159.7	21881.3
55°	16939.4	16820.7	17102.5	17390.3	18197.5	18622.3	21313.6	20717.8	18326.3	20635.3	23292.4
57.5°	17903.6	17710.4	18308.3	18441.1	19495.9	19975.0	22857.7	21746.4	19256.4	21766.5	24053.3
60°	19179.9	19014.8	19504.0	19854.3	21102.3	21742.4	24506.2	22803.3	19987.1	22620.1	24017.1
62.5°	21384.1	21196.9	21190.8	21682.0	23362.8	24107.7	26356.2	23840.0	20277.0	22789.2	22992.5
65°	24610.9	24313.0	23751.4	23984.9	26485.0	27227.8	28423.6	24590.8	19894.5	21883.4	20353.5
67.5°	27751.3	27741.1	27050.7	27529.8	30607.7	31203.5	30778.8	24665.3	18700.8	18729.0	15671.2
70°	30881.5	30921.7	30805.0	32471.7	36177.7	36797.6	33287.0	23664.8	16017.4	13525.3	9388.6
72.5°	33361.4	33351.4	33939.2	38237.0	43406.3	43267.4	35400.7	20633.2	11500.2	7301.2	4487.0
75°	31755.1	31404.8	33156.1	41091.4	47619.5	46941.1	33603.0	14393.0	5968.5	3323.5	2415.6
77.5°	20711.7	21043.9	23614.5	33945.2	41653.0	40827.7	24653.2	6715.3	2812.2	2180.1	1751.3
80°	7500.4	7850.7	11057.4	19228.2	28697.3	28562.5	12140.4	2759.8	1902.3	1646.6	1276.2
82.5°	2580.7	2709.5	4362.2	8539.1	16202.7	16806.5	4567.5	1568.2	1383.0	1167.5	873.6
85°	1012.5	1159.5	1994.9	4108.5	8172.7	8233.2	1850.0	938.1	962.2	764.9	479.1
87.5°	384.4	467.0	954.2	1908.4	3732.1	3428.1	662.2	446.9	547.6	455.0	227.5
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°	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9	9108.9
2.5°	9122.9	9165.2	9253.8	9314.2	9378.5	9396.7	9404.7	9420.8	9436.9	9430.9	9432.9
5°	9179.3	9261.8	9404.7	9465.1	9493.3	9461.1	9398.7	9348.4	9312.1	9292.0	9285.9
7.5°	9271.9	9388.6	9541.7	9531.6	9467.1	9324.2	9163.2	9042.4	8941.7	8905.5	8885.4
10°	9394.7	9531.6	9638.3	9523.5	9336.3	9088.7	8847.1	8659.9	8508.9	8450.5	8440.5
12.5°	9551.7	9690.6	9710.7	9467.1	9157.1	8819.0	8490.9	8243.3	8017.7	7945.4	7929.2
15°	9755.0	9885.9	9761.0	9368.5	8935.7	8480.8	8056.0	7719.8	7482.3	7393.8	7361.6
17.5°	9968.4	10093.2	9771.1	9205.5	8645.9	8080.2	7546.7	7202.5	6930.7	6828.1	6816.0
20°	10224.0	10280.4	9728.8	8971.9	8247.3	7560.8	6999.2	6675.1	6530.1	6457.7	6449.7
22.5°	10540.1	10479.7	9632.2	8655.9	7742.0	6961.0	6504.0	6353.1	6316.8	6300.7	6306.8
25°	10874.2	10689.0	9489.3	8243.3	7103.9	6361.1	6141.7	6183.9	6232.2	6226.2	6226.2
27.5°	11242.6	10902.4	9269.8	7695.7	6397.3	5869.9	5896.0	6051.1	6123.5	6121.6	6119.5
30°	11715.7	11144.0	8990.1	7037.5	5737.0	5523.7	5682.7	5871.9	5970.6	5966.6	5968.5
32.5°	12297.5	11409.7	8609.6	6302.7	5260.0	5268.0	5451.2	5638.4	5753.1	5743.1	5745.1
35°	12977.9	11707.6	8094.3	5578.0	4943.9	5064.7	5209.7	5340.5	5449.2	5435.1	5421.0
37.5°	13718.6	11999.5	7409.8	4929.8	4686.2	4875.4	4996.3	5018.4	5068.7	5032.5	5006.3
40°	14423.2	12222.9	6528.2	4398.4	4426.6	4714.5	4793.0	4704.4	4613.8	4601.8	4565.5
42.5°	15037.1	12297.5	5636.4	3973.7	4152.8	4545.4	4593.6	4408.5	4245.4	4169.0	4136.7
45°	15685.3	12323.6	4805.0	3617.4	3889.1	4394.4	4446.7	4199.1	3969.6	3804.5	3750.2
47.5°	16532.7	12512.8	4158.9	3353.7	3687.8	4293.7	4368.2	4032.0	3734.1	3498.6	3448.3
50°	17641.9	12887.2	3633.5	3152.4	3556.9	4227.3	4311.9	3869.0	3540.9	3257.1	3206.7
52.5°	18873.9	13231.4	3208.7	2989.3	3430.1	4110.5	4239.4	3752.3	3359.7	3033.6	2979.3
55°	19735.5	12967.8	2866.6	2820.2	3265.1	3943.4	4138.8	3653.6	3100.0	2816.2	2767.9
57.5°	19900.6	12066.0	2606.8	2645.0	3065.8	3734.1	3983.8	3434.2	2959.2	2721.6	2671.2
60°	19449.6	10809.8	2413.5	2484.1	2852.4	3470.4	3693.9	3279.1	2824.3	2620.9	2578.6
62.5°	18316.3	9523.5	2270.6	2339.1	2653.1	3202.7	3512.7	3116.1	2687.3	2506.1	2463.9
65°	16027.6	7995.7	2133.8	2210.3	2467.9	2971.2	3349.7	2965.1	2552.4	2413.5	2373.3
67.5°	12098.1	5988.6	2005.0	2073.3	2302.9	2769.9	3172.5	2816.2	2421.7	2333.1	2284.7
70°	7124.0	3750.2	1858.0	1930.4	2129.8	2560.5	2983.3	2653.1	2258.6	2218.3	2155.9
72.5°	3315.4	2256.6	1690.9	1761.4	1912.4	2280.7	2739.7	2439.7	2065.3	1976.7	1892.3
75°	1978.8	1650.7	1493.6	1556.1	1662.7	1982.8	2433.8	2222.4	1882.2	1765.4	1676.8
77.5°	1479.6	1262.2	1276.2	1342.6	1429.3	1735.2	2155.9	2051.3	1741.2	1650.7	1590.2
80°	1064.9	958.2	1040.7	1113.2	1203.7	1578.2	2065.3	1896.3	1574.1	1453.4	1397.0
82.5°	710.6	688.4	783.1	857.6	946.1	1380.9	1940.5	1660.8	1344.7	1191.7	1066.9
85°	392.6	414.6	527.4	559.6	636.2	972.3	1590.2	1334.6	1012.5	815.3	779.1
87.5°	163.0	191.2	283.8	273.8	338.2	579.7	1046.8	805.2	644.2	481.1	374.4
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)