

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: P382709

Luminaire Tested: **GLEON-SA0D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71042.6 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

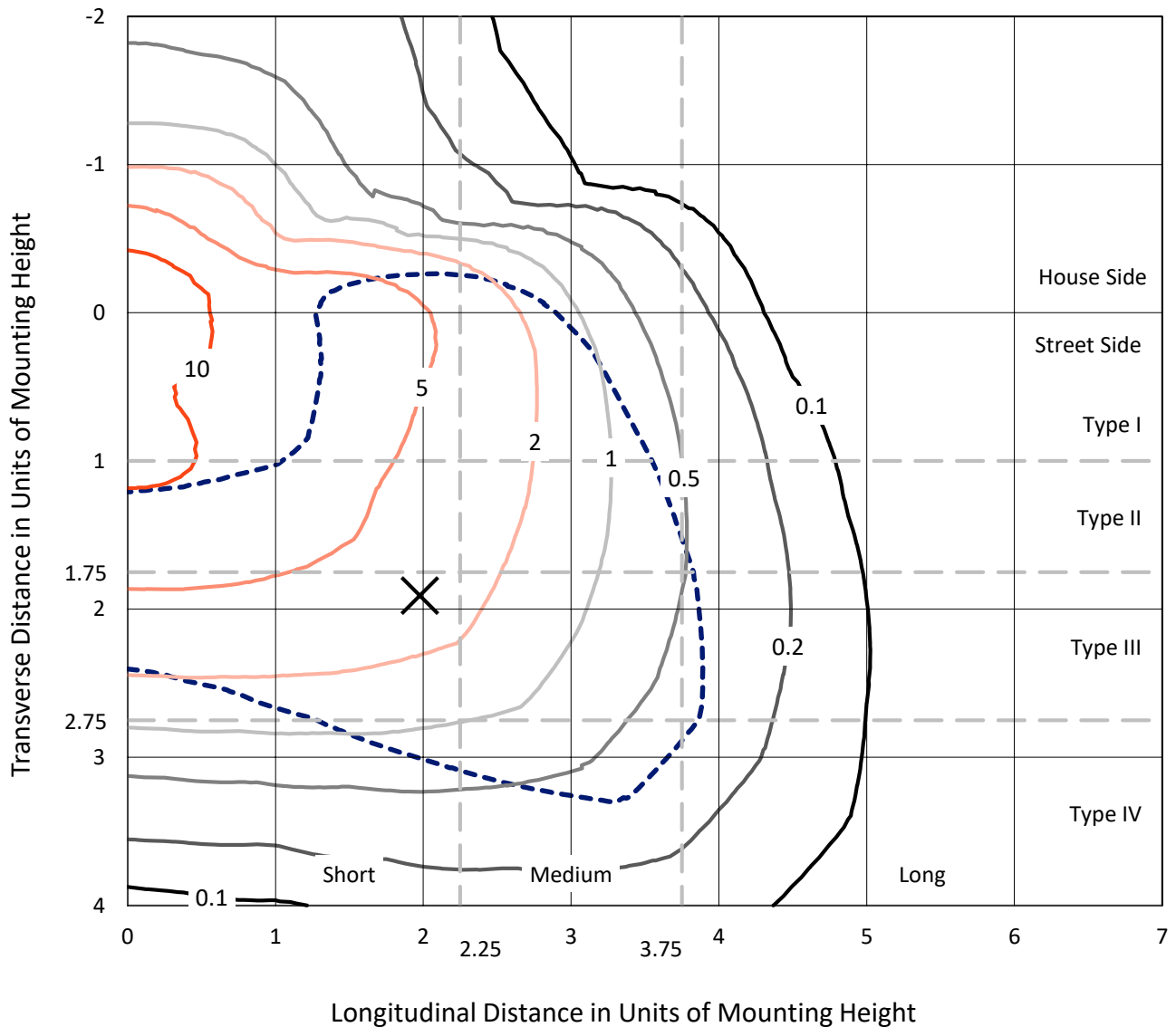
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382709
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

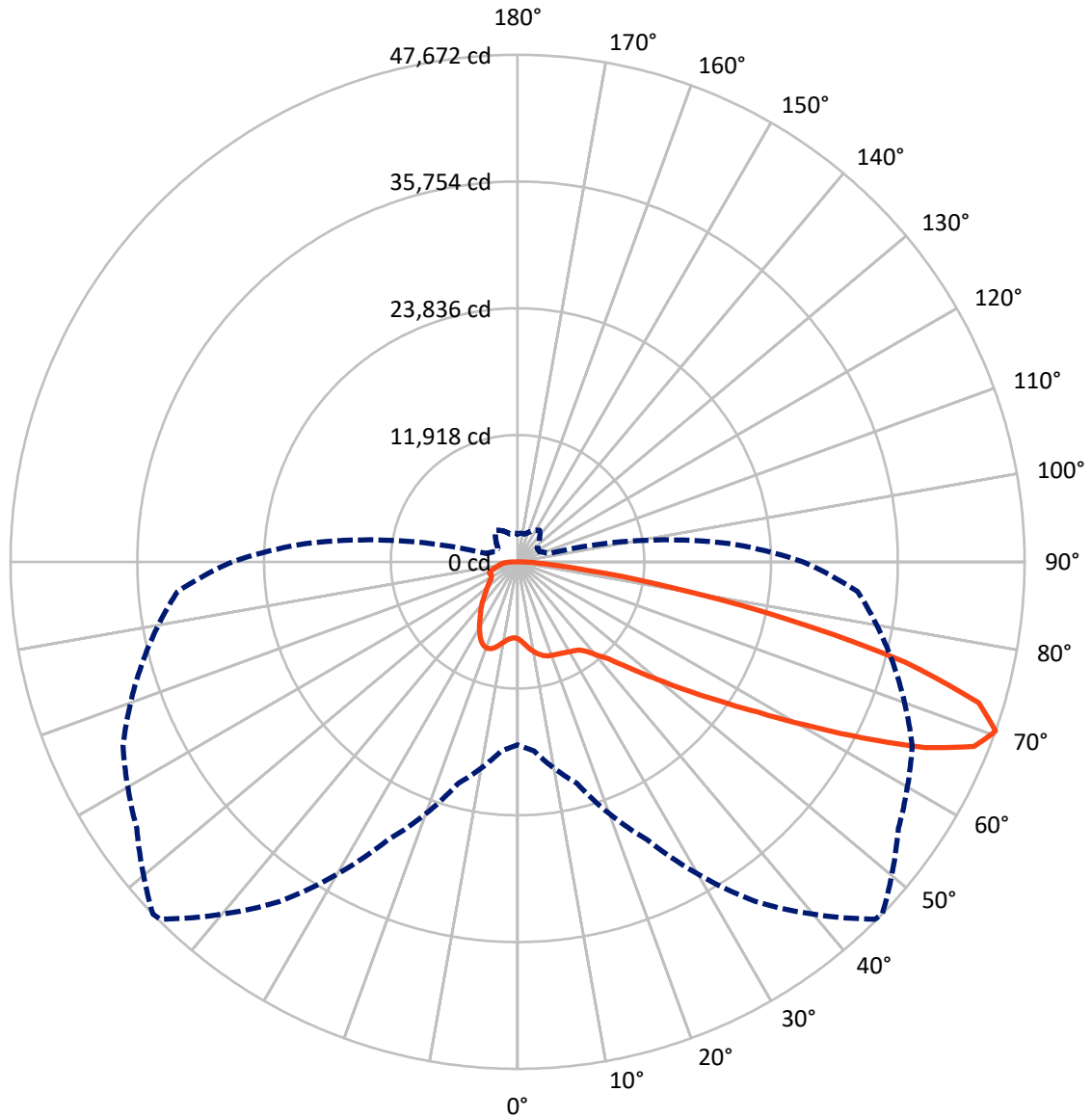
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P382709
CATALOG NUMBER: GLEON-SA0D-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P382709
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16282.8	0.0	16282.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	54759.9	0.0	54759.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	71042.6	0.0	71042.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.8	1.0
10°-20°	2458.3	3.5
20°-30°	4098.9	5.8
30°-40°	5816.6	8.2
40°-50°	8555.9	12.0
50°-60°	14489.4	20.4
60°-70°	20567.4	29.0
70°-80°	12494.9	17.6
80°-90°	1823.5	2.6
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°	71042.6	100.0
0°-180°	71042.6	100.0

Coefficient of Utilization

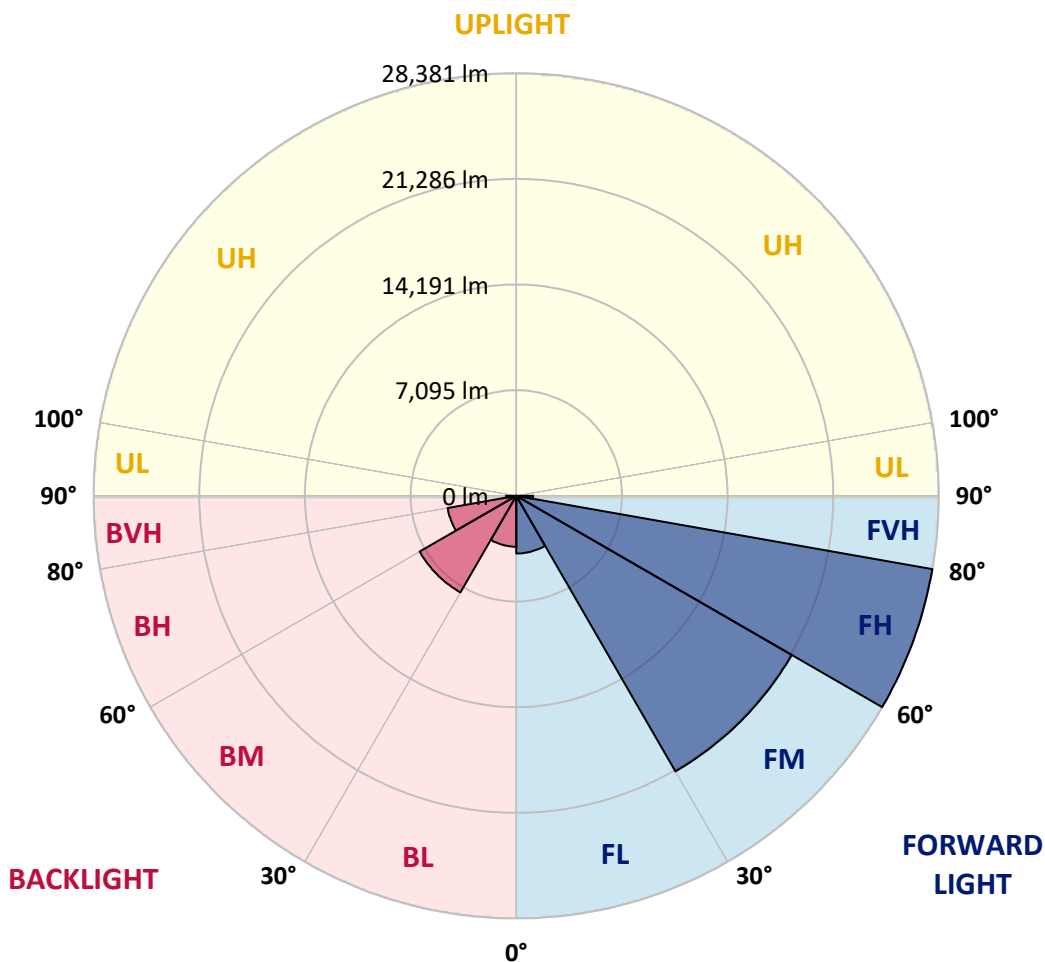


REPORT NUMBER: P382709
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3876.4	5.5			
FM (30°-60°)	21366.5	30.1			
FH (60°-80°)	28381.1	39.9			G5
FVH (80°-90°)	1135.9	1.6			G5
BL (0°-30°)	3418.6	4.8	B4/5000		
BM (30°-60°)	7495.4	10.6	B4/8500		
BH (60°-80°)	4681.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	687.6	1.0			G4/750
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





REPORT NUMBER: P382709
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8
2.5°	7600.1	7605.0	7614.7	7590.3	7522.3	7502.9	7495.6	7425.1	7378.9	7310.8	7252.5
5°	8208.0	8212.8	8198.2	8130.1	7979.4	7867.6	7857.8	7697.4	7551.5	7395.9	7279.2
7.5°	8842.4	8849.8	8803.6	8674.8	8463.2	8268.7	8256.6	8037.8	7816.5	7580.7	7405.6
10°	9404.1	9374.9	9299.5	9119.7	8869.3	8631.0	8621.2	8392.7	8137.4	7852.9	7619.6
12.5°	9778.5	9754.2	9657.0	9438.2	9163.4	8944.6	8925.2	8713.6	8465.6	8154.4	7874.8
15°	9985.2	10002.2	9870.9	9622.9	9355.4	9170.7	9153.7	9002.9	8781.7	8468.0	8147.1
17.5°	10011.9	10026.5	9900.1	9654.6	9435.7	9309.3	9302.0	9202.3	9041.9	8740.3	8404.9
20°	9856.3	9866.0	9761.5	9559.7	9416.3	9377.3	9374.9	9331.1	9212.1	8944.6	8618.8
22.5°	9630.2	9637.5	9562.1	9416.3	9367.6	9428.4	9445.4	9428.4	9343.3	9092.9	8786.5
25°	9574.3	9569.4	9491.6	9343.3	9384.7	9513.5	9535.4	9542.7	9484.4	9265.5	9000.5
27.5°	9844.1	9827.2	9678.9	9440.6	9467.3	9622.9	9652.0	9722.6	9686.1	9494.1	9243.7
30°	10624.6	10595.4	10291.6	9810.1	9678.9	9759.1	9795.5	9907.4	9914.6	9754.2	9567.0
32.5°	11942.3	11905.8	11361.2	10500.6	10036.2	9897.7	9931.7	10099.5	10189.4	10065.4	9863.6
35°	13607.8	13566.4	12851.6	11674.9	10634.4	10162.6	10186.9	10320.7	10500.6	10325.6	10058.1
37.5°	15343.7	15243.9	14555.9	13055.8	11584.9	10729.1	10729.1	10746.1	10831.3	10466.6	10286.6
40°	17069.9	16970.2	16347.7	14679.9	12815.1	11621.4	11565.4	11188.6	11120.5	10807.0	10746.1
42.5°	18674.5	18645.3	18278.2	16515.5	14259.3	12499.1	12421.3	11781.8	11796.5	11602.0	11604.4
45°	20381.2	20381.2	20082.2	18368.2	15941.8	13909.2	13831.4	12890.6	13036.4	12946.5	13162.9
47.5°	21774.4	21818.1	21776.8	20298.6	17898.9	15701.0	15560.0	14427.1	14835.5	15144.3	15774.0
50°	23196.7	23264.7	23272.0	22416.2	20264.5	17830.8	17670.3	16466.9	17378.6	18263.6	19501.1
52.5°	25260.8	25413.9	24803.7	24529.0	23162.6	20359.3	20201.4	19090.2	20612.2	21854.6	23986.8
55°	27174.2	27040.4	26605.3	26775.5	26264.9	23237.9	23118.8	22143.9	24215.3	25829.7	28598.9
57.5°	28209.9	28200.2	28637.7	29367.1	29610.3	26787.6	26687.9	25739.7	28278.0	29491.1	32928.9
60°	29425.5	29442.5	30526.9	32182.5	33184.2	31207.6	31163.8	30444.2	32223.9	32909.5	36325.4
62.5°	29595.7	29902.0	31769.2	34618.6	36529.6	36371.6	36468.9	34681.9	35754.1	35637.4	38861.2
65°	27638.6	28042.1	31421.6	35355.3	39855.6	42019.4	42109.4	38943.9	38537.8	37968.9	39768.0
67.5°	23626.9	24225.1	27896.2	33753.1	40952.1	46193.9	46320.3	42247.9	40847.5	38759.1	37584.8
70°	17193.9	17857.6	21553.1	28827.4	38997.4	47528.7	47672.0	43709.1	40935.1	36510.1	32085.3
72.5°	10386.3	10906.7	13953.0	21222.4	32914.4	45097.4	45352.7	41856.5	37373.3	30925.6	23692.6
75°	4561.0	4901.4	6746.7	12229.3	23563.8	37312.5	37631.0	35827.0	30366.4	22474.5	14004.0
77.5°	1942.6	2039.8	2766.8	5312.3	13320.9	25496.6	25934.2	26177.3	20602.5	12229.3	5917.7
80°	1210.7	1249.7	1565.7	2404.5	6233.7	14320.1	14791.8	15402.0	10230.7	4495.4	2066.5
82.5°	736.7	780.5	1040.5	1453.9	3245.7	6491.5	6717.6	7147.9	3970.3	1942.6	1069.8
85°	442.5	474.1	637.0	919.0	1847.7	2552.8	2550.4	2820.3	1869.6	1249.7	564.1
87.5°	211.6	235.9	340.4	476.5	931.2	957.9	897.2	1016.2	1135.4	819.3	284.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382709
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8
2.5°	7233.0	7223.2	7191.6	7167.3	7162.5	7147.9	7135.7	7143.0	7152.8	7155.2	7155.2
5°	7230.6	7203.8	7162.5	7145.4	7167.3	7196.5	7233.0	7281.6	7310.8	7332.7	7347.3
7.5°	7347.3	7296.2	7250.0	7240.3	7284.1	7361.8	7444.5	7546.7	7617.2	7665.8	7675.5
10°	7541.7	7478.6	7432.4	7442.0	7519.9	7631.7	7748.4	7879.7	7986.7	8052.3	8057.1
12.5°	7765.5	7704.6	7660.9	7702.2	7831.1	7967.2	8088.8	8203.0	8300.3	8365.9	8365.9
15°	8023.1	7979.4	7928.3	8023.1	8198.2	8319.7	8370.8	8426.8	8480.3	8528.9	8519.1
17.5°	8271.1	8229.9	8203.0	8314.9	8497.2	8553.2	8519.1	8477.8	8477.8	8504.6	8509.4
20°	8485.1	8448.6	8465.6	8575.1	8669.8	8611.5	8485.1	8353.8	8300.3	8314.9	8329.5
22.5°	8672.3	8655.3	8706.3	8757.4	8689.3	8485.1	8251.6	8074.2	8008.5	8003.7	8008.5
25°	8891.1	8888.6	8951.9	8859.5	8558.0	8181.2	7867.6	7695.0	7658.4	7687.6	7736.2
27.5°	9163.4	9190.2	9221.8	8883.8	8290.6	7721.7	7403.2	7284.1	7320.5	7391.0	7437.2
30°	9511.1	9584.0	9515.9	8823.1	7906.4	7196.5	6892.6	6858.6	6958.3	7058.0	7106.6
32.5°	9849.1	9963.3	9797.9	8665.0	7410.5	6639.8	6403.9	6394.2	6515.8	6613.1	6681.1
35°	10121.4	10347.4	10009.5	8351.3	6836.7	6126.8	5954.2	5888.5	5932.3	6046.6	6124.4
37.5°	10476.3	10853.1	10155.4	7872.4	6214.3	5703.8	5501.9	5351.2	5312.3	5358.4	5397.4
40°	11125.5	11623.9	10223.5	7203.8	5606.5	5280.7	5076.5	4855.2	4702.1	4590.2	4592.6
42.5°	12185.5	12628.0	10179.7	6391.8	5044.9	4867.3	4636.4	4381.2	4133.1	3880.3	3860.8
45°	13906.8	14120.8	10048.4	5531.1	4551.4	4434.6	4218.2	3963.0	3632.3	3345.4	3318.6
47.5°	16661.4	16187.3	9844.1	4779.9	4116.1	4067.5	3868.2	3574.0	3223.8	2992.9	2973.4
50°	20417.7	19170.5	9744.5	4181.7	3732.0	3746.6	3583.7	3272.4	2941.8	2771.6	2752.2
52.5°	24910.7	22644.7	9936.5	3719.9	3423.3	3474.3	3352.7	3061.0	2783.7	2650.1	2630.6
55°	29571.4	26243.0	10143.2	3384.3	3131.5	3231.2	3189.8	2949.1	2698.7	2574.7	2557.7
57.5°	33561.1	28929.5	9729.9	3112.0	2871.3	3026.9	3063.4	2878.6	2654.9	2543.1	2523.7
60°	36072.6	30011.4	8645.5	2856.7	2664.7	2864.0	2990.5	2859.2	2672.0	2662.3	2647.6
62.5°	37263.9	29916.7	7019.0	2654.9	2535.8	2793.5	3043.9	2968.6	2866.5	2953.9	2961.3
65°	36729.0	28487.0	5227.2	2521.2	2443.4	2820.3	3204.4	3175.2	2922.4	3009.9	3022.0
67.5°	33208.6	25076.0	3870.6	2404.5	2341.3	2895.6	3496.2	3243.3	2813.0	2876.2	2837.3
70°	26841.1	19880.3	2985.6	2273.3	2236.7	2885.9	3627.4	3202.0	2693.8	2708.4	2603.9
72.5°	18509.2	13556.7	2428.8	2151.7	2086.0	2630.6	3535.0	3099.8	2594.2	2482.3	2343.8
75°	10065.4	7276.8	2064.1	2025.3	1821.0	2309.7	3364.8	3026.9	2504.2	2355.9	2278.1
77.5°	3960.5	3019.6	1791.8	1852.7	1592.5	2039.8	3175.2	2888.4	2380.2	2185.7	2146.8
80°	1616.8	1541.4	1485.5	1602.2	1368.8	1784.6	2946.7	2725.4	2231.9	2027.7	1949.8
82.5°	916.5	957.9	1154.8	1264.3	1111.1	1643.5	2837.3	2594.2	2054.4	1816.1	1723.7
85°	469.2	561.6	804.8	906.9	816.9	1398.0	2613.6	2270.8	1648.4	1390.7	1398.0
87.5°	226.1	313.7	508.2	568.9	530.1	1011.4	1952.3	1646.0	1283.7	1016.2	984.6
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)