

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: P192168

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46713 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

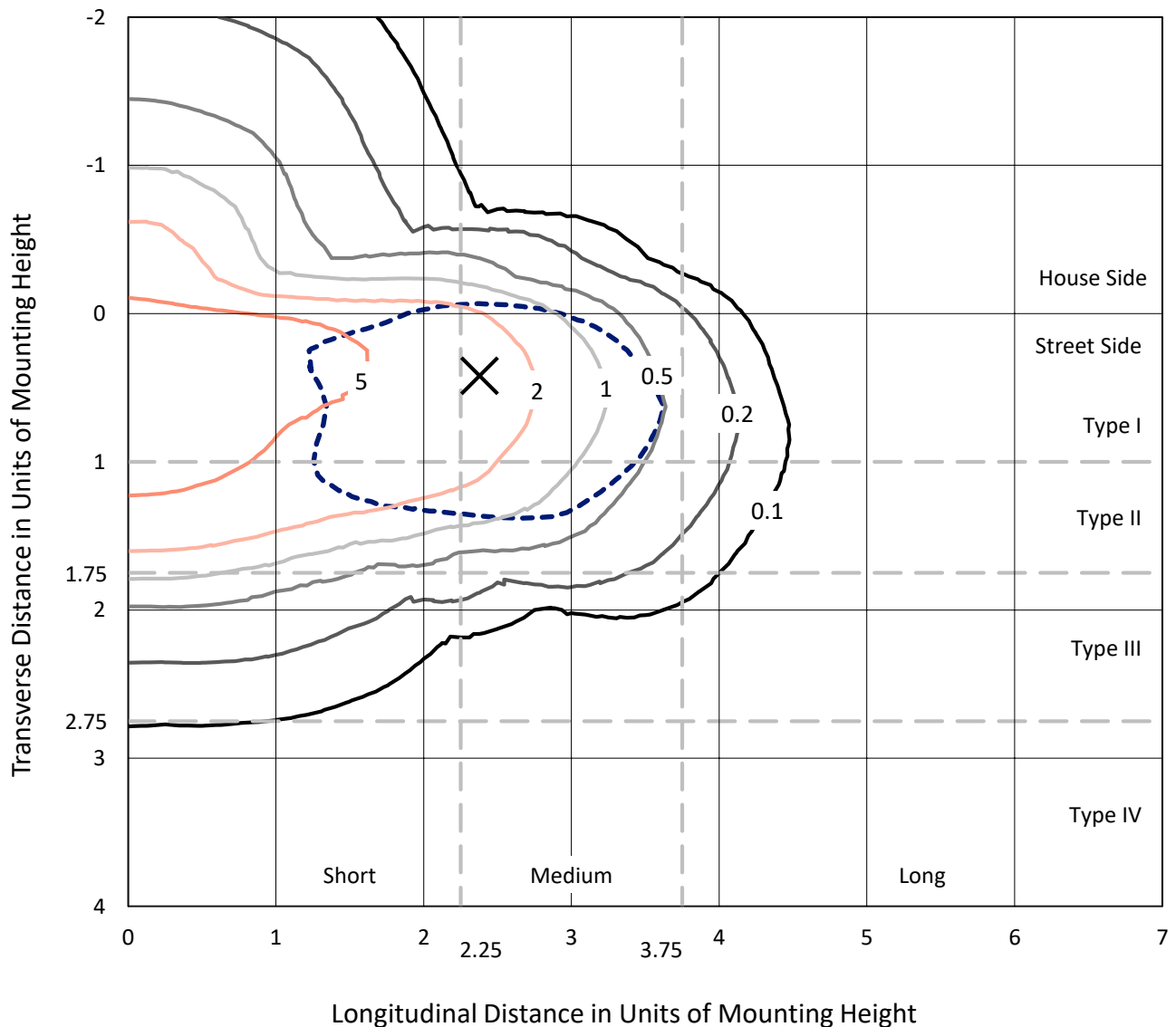
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

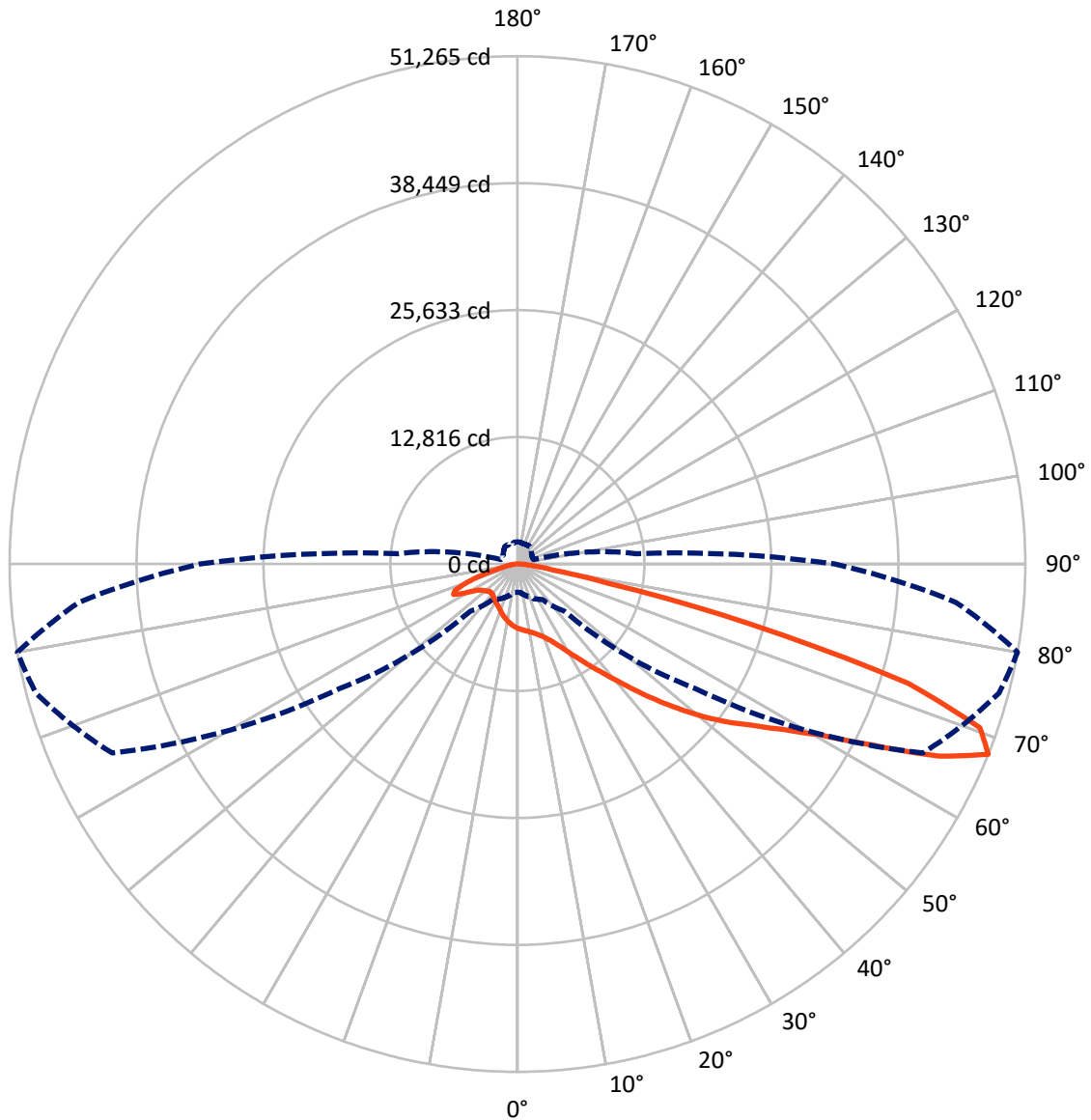
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8602.8	0.0	8602.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	38110.2	0.0	38110.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	46713.0	0.0	46713.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.7	1.3
10°-20°	1724.5	3.7
20°-30°	2854.5	6.1
30°-40°	4669.2	10.0
40°-50°	7538.9	16.1
50°-60°	10884.0	23.3
60°-70°	12011.2	25.7
70°-80°	5536.4	11.9
80°-90°	895.5	1.9
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°	46713.0	100.0
0°-180°	46713.0	100.0



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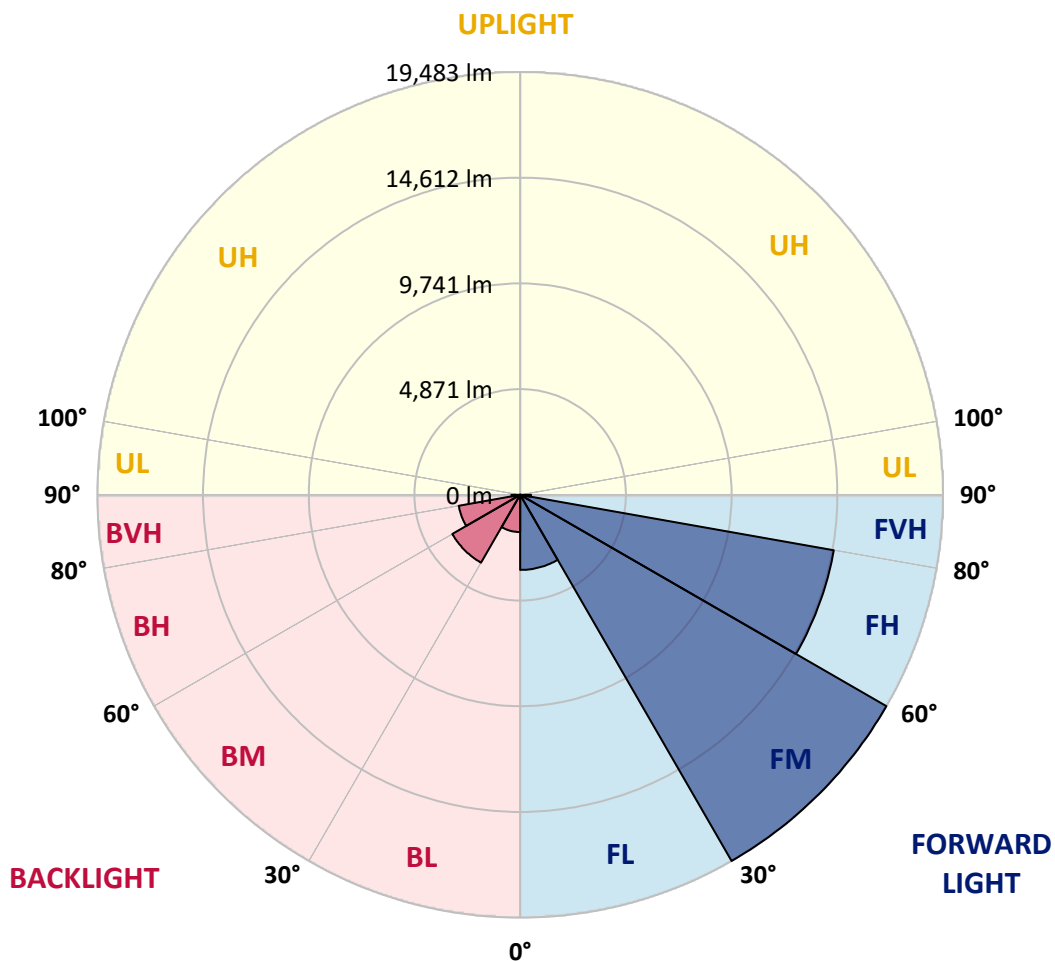
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3461.3	7.4			
FM (30°-60°)	19482.8	41.7			
FH (60°-80°)	14673.8	31.4			G5
FVH (80°-90°)	492.3	1.1			G3/500
BL (0°-30°)	1716.4	3.7	B3/2500		
BM (30°-60°)	3609.4	7.7	B3/5000		
BH (60°-80°)	2873.8	6.2	B4/5000		G4/5000
BVH (80°-90°)	403.2	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8
2.5°	7099.2	7057.8	7064.7	7053.2	7018.7	6958.9	6894.5	6777.3	6655.4	6591.0	6540.4
5°	7692.5	7681.0	7664.9	7628.2	7540.8	7416.6	7262.5	7055.5	6832.5	6715.2	6602.5
7.5°	8136.4	8129.5	8108.8	8085.8	8000.7	7851.2	7619.0	7324.6	7000.3	6839.4	6664.6
10°	8173.2	8184.7	8200.8	8262.9	8274.4	8193.9	7957.0	7600.6	7175.1	6968.1	6745.1
12.5°	7860.4	7885.7	7947.8	8106.5	8274.4	8373.3	8251.4	7890.3	7379.8	7129.1	6846.3
15°	7446.5	7460.3	7536.2	7754.6	8055.9	8361.8	8476.7	8210.0	7644.3	7336.1	6998.0
17.5°	7269.4	7276.3	7329.2	7474.1	7754.6	8191.6	8603.2	8557.2	7968.5	7593.7	7184.3
20°	7179.7	7195.8	7271.7	7414.3	7591.4	7973.1	8621.6	8932.1	8354.9	7915.6	7418.9
22.5°	7435.0	7428.1	7455.7	7527.0	7676.4	7906.4	8607.8	9318.4	8847.0	8329.6	7724.7
25°	8030.6	8055.9	8007.6	7927.1	7975.4	8136.4	8681.4	9737.0	9463.3	8860.8	8124.9
27.5°	8879.2	8853.9	8782.6	8594.0	8495.1	8564.1	8925.2	10187.7	10229.1	9559.9	8653.8
30°	9725.5	9704.8	9635.8	9405.8	9203.5	9146.0	9398.9	10705.2	11142.1	10399.3	9302.3
32.5°	10604.0	10581.0	10516.6	10286.6	10042.9	9909.5	10072.7	11303.1	12218.4	11402.0	10065.9
35°	11687.1	11643.5	11507.8	11188.1	10948.9	10845.5	10921.3	12055.1	13460.2	12588.6	10992.6
37.5°	12705.9	12772.6	12634.6	12193.1	11882.6	11845.8	11930.9	12972.7	14798.7	13915.6	12057.4
40°	13729.3	13740.8	13616.6	13255.6	12935.9	12876.1	13090.0	14085.8	16378.6	15502.4	13352.1
42.5°	14787.2	14810.2	14600.9	14267.4	14032.9	14044.4	14288.1	15389.7	18190.7	17372.0	14842.4
45°	16040.5	16075.0	15845.0	15408.1	15194.2	15624.3	15523.1	16852.3	20177.7	19497.0	16553.3
47.5°	17351.3	17404.2	17229.5	16820.1	16553.3	17144.4	16758.0	18473.6	22316.4	21776.0	18432.2
50°	18066.6	18142.4	18312.6	18282.7	18225.2	18126.3	18135.5	20212.2	24521.9	24149.3	20364.0
52.5°	17682.5	17680.2	18301.1	19055.4	19860.3	19920.1	19814.3	22045.1	26582.4	26469.7	22183.0
55°	15925.5	16045.1	16985.7	18446.0	20644.5	22017.5	22330.2	24144.7	28606.1	28737.2	24029.7
57.5°	13000.3	13099.2	14368.6	16403.9	19586.7	23263.9	25908.6	27196.4	30869.1	31480.8	26488.1
60°	8817.1	8936.7	10282.0	12726.6	16739.6	22569.4	29314.5	32642.1	33578.1	34969.5	29937.7
62.5°	5181.3	5289.3	6386.3	8028.3	11786.0	19342.9	30809.3	40389.9	37880.9	40233.5	35199.4
65°	3566.9	3640.4	4174.0	4997.3	6772.7	13027.9	28955.7	45739.0	44501.8	46755.5	41300.6
67.5°	2870.0	2860.8	3284.0	3845.1	4360.3	6717.5	21895.6	45134.2	50324.7	51265.2	44467.3
70°	2364.1	2354.9	2642.4	3106.9	3484.1	3783.0	11926.3	38087.9	49138.0	49519.8	41551.2
72.5°	1977.8	1987.0	2170.9	2515.9	2858.5	2849.3	5241.0	26794.0	38655.9	41296.0	33122.8
75°	1669.6	1674.2	1796.1	2039.8	2320.4	2295.1	2842.4	14515.8	22470.5	24308.0	18360.9
77.5°	1421.2	1425.8	1504.0	1639.7	1839.8	1830.6	2074.3	6271.3	9373.6	9258.7	6280.5
80°	1267.1	1267.1	1303.9	1329.2	1439.6	1398.2	1538.5	3012.6	3962.4	3658.8	2506.7
82.5°	993.5	998.1	1223.4	1214.2	1133.8	1080.9	1080.9	1775.4	2099.6	1941.0	1467.2
85°	558.8	556.5	788.8	952.1	998.1	761.2	754.3	993.5	1143.0	1007.3	710.6
87.5°	239.2	243.8	365.7	423.1	565.7	473.7	466.8	512.8	581.8	503.6	328.9
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°	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8	6489.8
2.5°	6492.1	6432.3	6301.2	6137.9	5990.8	5894.2	5806.8	5680.3	5687.2	5599.8	5535.4
5°	6487.5	6363.3	6059.7	5698.7	5351.4	5100.8	4912.2	4742.0	4700.6	4620.1	4571.8
7.5°	6492.1	6289.7	5779.2	5202.0	4771.9	4454.5	4293.6	4203.9	4183.2	4155.6	4157.9
10°	6508.2	6223.0	5471.0	4737.4	4286.7	4077.4	4038.3	4065.9	4098.1	4107.3	4109.6
12.5°	6545.0	6163.2	5133.0	4323.5	3983.1	3918.7	3985.4	4079.7	4141.8	4171.7	4169.4
15°	6627.8	6117.2	4808.7	3999.2	3815.2	3849.7	3973.9	4107.3	4197.0	4238.4	4240.7
17.5°	6717.5	6050.5	4475.2	3750.8	3691.0	3778.4	3932.5	4088.9	4199.3	4245.3	4254.5
20°	6834.8	5967.8	4125.7	3564.6	3573.8	3672.6	3817.5	3973.9	4095.8	4134.9	4153.3
22.5°	6988.8	5878.1	3819.8	3412.8	3440.4	3516.3	3628.9	3764.6	3870.4	3888.8	3904.9
25°	7195.8	5781.5	3576.1	3274.8	3286.3	3330.0	3405.9	3486.4	3560.0	3539.3	3555.4
27.5°	7474.1	5698.7	3394.4	3148.3	3127.6	3136.8	3175.9	3201.2	3240.3	3182.8	3189.7
30°	7800.6	5609.0	3254.1	3037.9	2980.4	2964.3	2973.5	2987.3	3017.2	2939.0	2927.5
32.5°	8180.1	5500.9	3123.0	2941.3	2860.8	2828.6	2833.2	2870.0	2985.0	2936.7	2911.4
35°	8621.6	5379.0	2985.0	2835.5	2780.4	2734.4	2729.8	2844.7	3187.4	3157.5	3134.5
37.5°	9139.1	5257.1	2847.0	2716.0	2720.6	2670.0	2653.9	2785.0	3226.5	3109.2	3093.1
40°	9796.8	5192.8	2729.8	2589.5	2647.0	2640.1	2607.9	2674.6	2968.9	2755.1	2727.5
42.5°	10610.9	5202.0	2642.4	2453.8	2559.6	2633.2	2582.6	2584.9	2690.7	2529.7	2504.4
45°	11615.9	5310.0	2580.3	2345.7	2460.7	2626.3	2573.4	2536.6	2545.8	2460.7	2446.9
47.5°	12788.7	5533.1	2536.6	2256.0	2366.4	2601.0	2571.1	2522.8	2502.1	2456.1	2444.6
50°	14092.7	5857.4	2504.4	2170.9	2281.3	2559.6	2573.4	2509.0	2486.0	2467.6	2460.7
52.5°	15373.6	6227.6	2456.1	2097.3	2214.6	2509.0	2580.3	2495.2	2469.9	2456.1	2449.2
55°	16801.7	6689.9	2382.5	2035.2	2159.4	2444.6	2580.3	2474.5	2446.9	2449.2	2446.9
57.5°	18731.2	7437.3	2295.1	1982.4	2092.7	2366.4	2536.6	2451.5	2417.0	2419.3	2421.6
60°	21746.1	8755.0	2189.3	1929.5	2010.0	2274.4	2476.8	2400.9	2366.4	2375.6	2377.9
62.5°	26179.9	10689.1	2051.3	1851.3	1922.6	2175.5	2394.0	2336.5	2302.0	2325.0	2325.0
65°	30788.6	12395.5	1881.2	1752.4	1830.6	2067.4	2290.5	2256.0	2221.5	2274.4	2272.1
67.5°	32028.1	12013.7	1711.0	1644.3	1738.6	1947.9	2166.3	2147.9	2129.5	2221.5	2216.9
70°	28452.1	9645.0	1554.6	1533.9	1637.4	1819.1	2032.9	2032.9	2021.4	2090.4	2074.3
72.5°	21677.1	6839.4	1405.1	1416.6	1522.4	1678.8	1888.1	1904.2	1885.8	1920.3	1906.5
75°	11604.4	3914.1	1255.6	1287.8	1379.8	1536.2	1727.1	1743.2	1731.7	1729.4	1736.3
77.5°	3856.6	1913.4	1099.3	1149.9	1230.3	1389.0	1559.2	1584.5	1556.9	1552.3	1550.0
80°	1717.9	1202.8	926.8	993.5	1064.8	1221.1	1382.1	1402.8	1372.9	1414.3	1361.4
82.5°	1103.9	791.1	742.8	816.4	885.4	1053.3	1205.1	1209.6	1182.1	1372.9	1170.6
85°	535.8	489.8	558.8	625.5	685.3	827.9	998.1	1000.4	931.4	848.6	818.7
87.5°	266.8	285.2	372.6	432.3	462.2	568.0	726.7	712.9	683.0	620.9	572.6
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)