

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: P269740

Luminaire Tested: **GLEON-AF-10-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269740
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-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55103.3 lumens
Efficiency: N/A
Efficacy: 86.1 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): 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: 25 FT

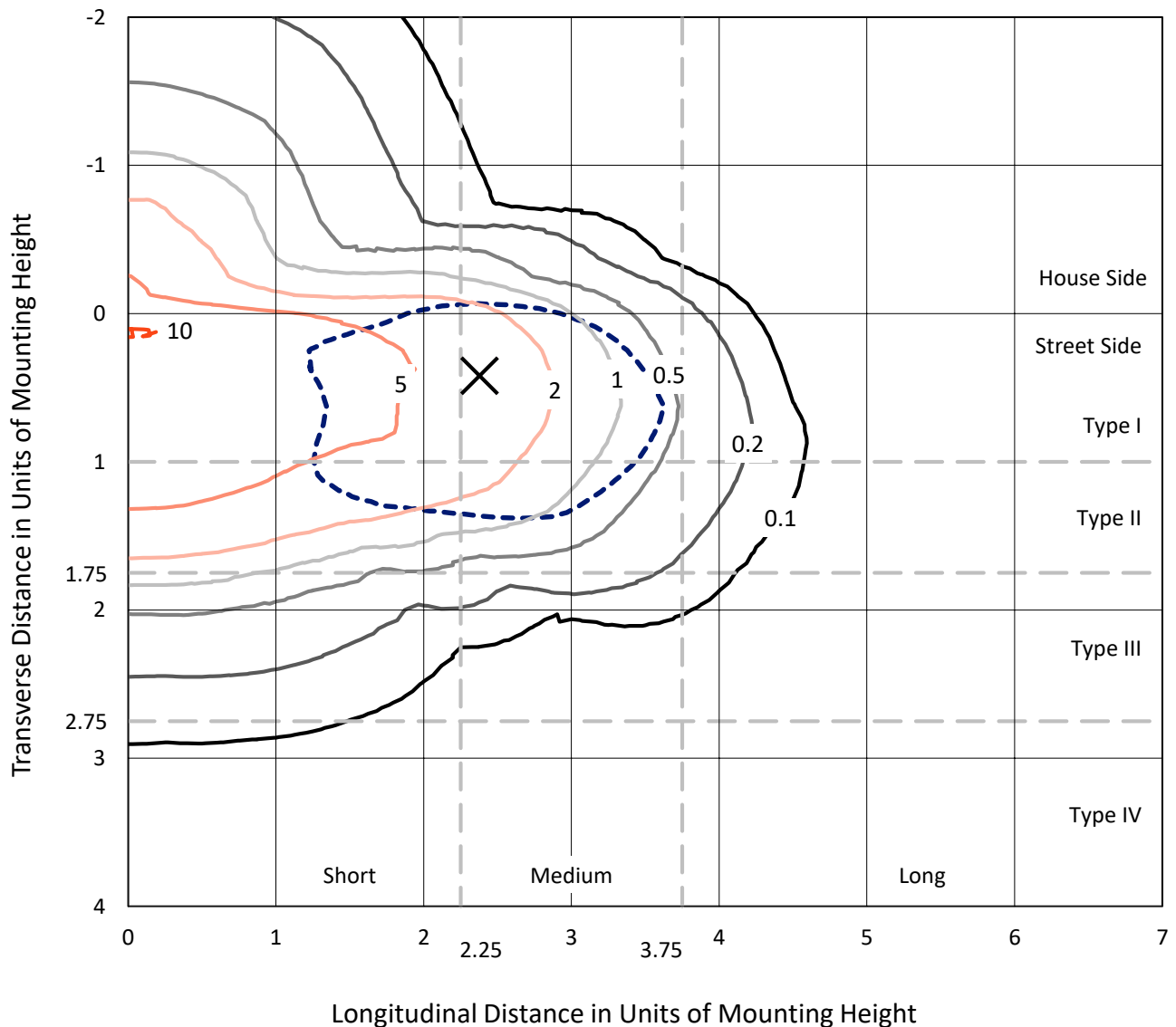


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

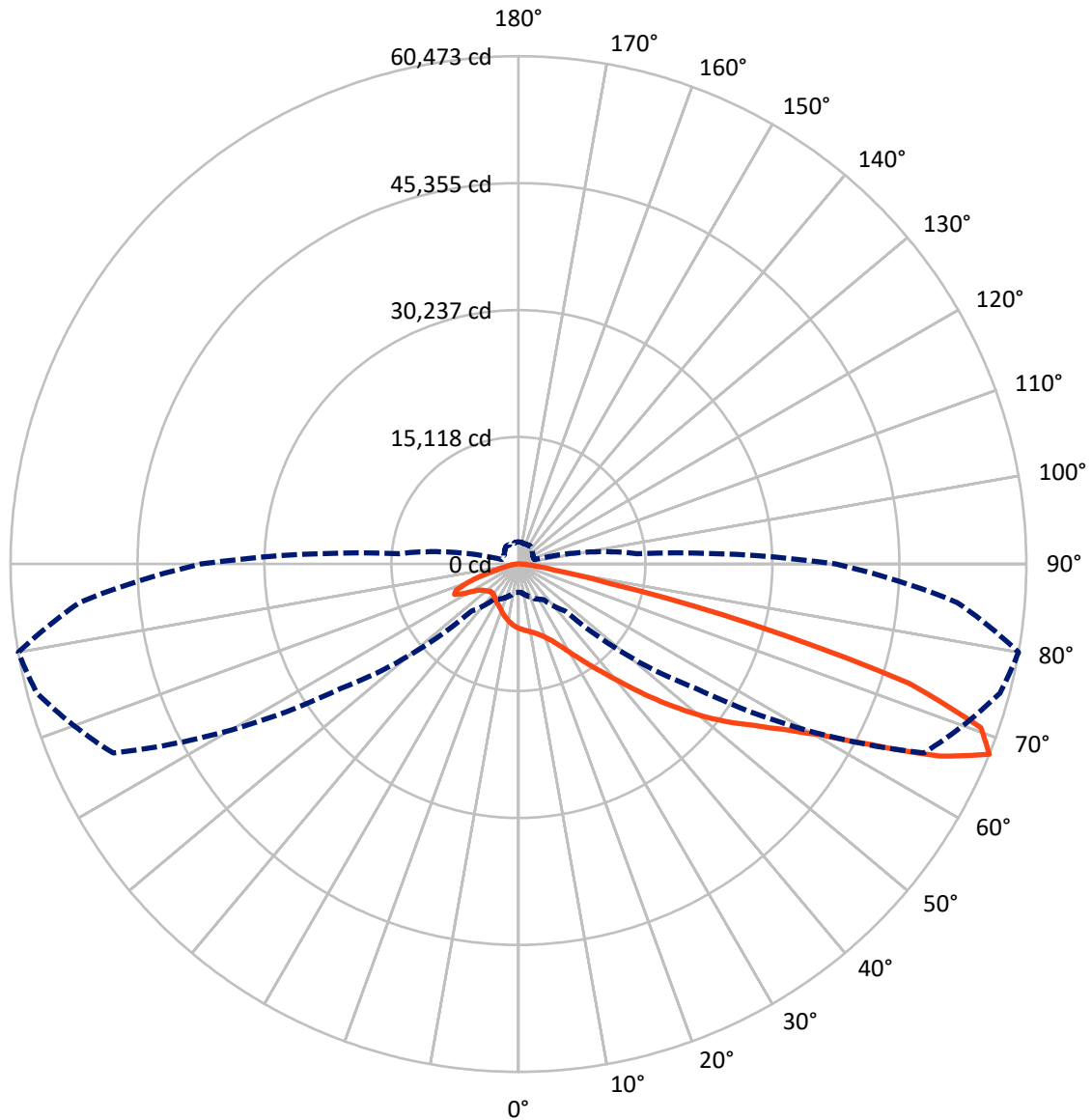


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - Full Cutoff

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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	10147.9	0.0	10147.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	44955.4	0.0	44955.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	55103.3	0.0	55103.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.2	1.3
10°-20°	2034.3	3.7
20°-30°	3367.2	6.1
30°-40°	5507.9	10.0
40°-50°	8893.0	16.1
50°-60°	12839.0	23.3
60°-70°	14168.6	25.7
70°-80°	6530.8	11.9
80°-90°	1056.3	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°	55103.3	100.0
0°-180°	55103.3	100.0



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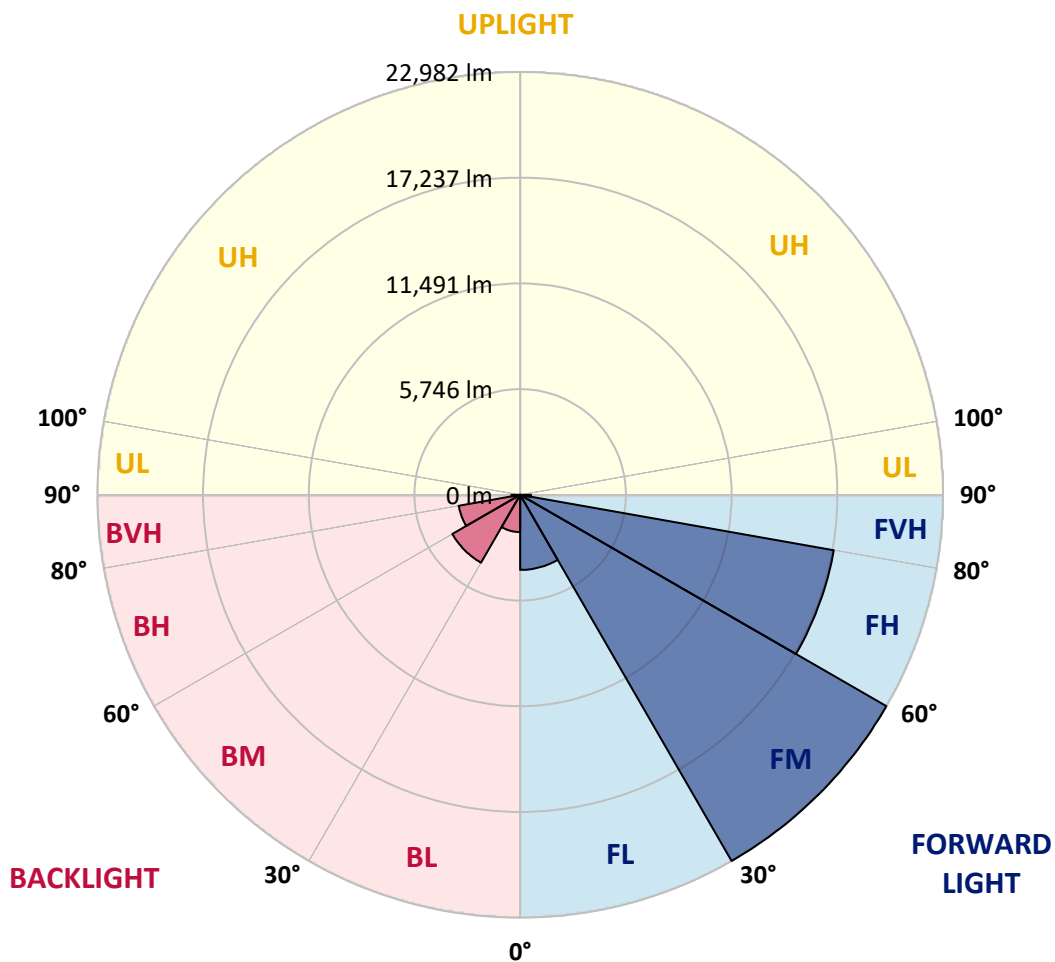
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4083.1	7.4			
FM (30°-60°)	22982.2	41.7			
FH (60°-80°)	17309.4	31.4			G5
FVH (80°-90°)	580.8	1.1			G4/750
BL (0°-30°)	2024.6	3.7	B3/2500		
BM (30°-60°)	4257.7	7.7	B3/5000		
BH (60°-80°)	3390.0	6.2	B4/5000		G4/5000
BVH (80°-90°)	475.6	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°	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4
2.5°	8374.3	8325.5	8333.7	8320.1	8279.4	8208.8	8133.0	7994.6	7850.7	7774.8	7715.2
5°	9074.1	9060.7	9041.7	8998.3	8895.1	8748.8	8567.0	8322.7	8059.7	7921.3	7788.3
7.5°	9597.9	9589.6	9565.2	9538.2	9437.8	9261.4	8987.5	8640.2	8257.7	8067.8	7861.6
10°	9641.1	9654.8	9673.8	9747.0	9760.5	9665.7	9386.2	8965.8	8463.9	8219.8	7956.6
12.5°	9272.2	9302.0	9375.3	9562.5	9760.5	9877.3	9733.5	9307.5	8705.3	8409.7	8075.9
15°	8783.9	8800.2	8889.7	9147.5	9502.9	9863.7	9999.4	9684.5	9017.2	8653.7	8255.0
17.5°	8575.1	8583.2	8645.6	8816.5	9147.5	9662.9	10148.5	10094.3	9399.8	8957.5	8474.7
20°	8469.3	8488.3	8577.7	8746.0	8954.8	9405.2	10170.3	10536.4	9855.6	9337.4	8751.4
22.5°	8770.4	8762.2	8794.9	8878.8	9055.3	9326.6	10153.9	10992.2	10436.1	9825.8	9112.1
25°	9472.9	9502.9	9445.9	9350.9	9407.9	9597.9	10240.7	11485.9	11163.1	10452.3	9584.2
27.5°	10474.1	10444.1	10360.2	10137.6	10021.0	10102.3	10528.2	12017.5	12066.5	11277.1	10208.2
30°	11472.3	11447.9	11366.6	11095.2	10856.6	10788.7	11087.2	12628.0	13143.5	12267.2	10973.2
32.5°	12508.5	12481.5	12405.6	12134.2	11846.7	11689.4	11881.9	13333.4	14412.9	13450.0	11873.8
35°	13786.3	13734.7	13574.7	13197.7	12915.6	12793.4	12883.0	14220.3	15877.9	14849.7	12967.0
37.5°	14988.1	15066.7	14904.0	14383.1	14017.0	13973.6	14073.8	15302.7	17456.8	16415.0	14223.0
40°	16195.3	16208.8	16062.4	15636.4	15259.4	15188.8	15441.1	16615.8	19320.3	18286.8	15750.4
42.5°	17443.2	17470.2	17223.5	16830.0	16553.3	16566.9	16854.4	18153.8	21458.1	20492.3	17508.2
45°	18921.5	18962.3	18691.0	18175.5	17923.3	18430.5	18311.2	19879.2	23801.9	22998.9	19526.5
47.5°	20467.9	20530.4	20324.2	19841.3	19526.5	20223.7	19768.0	21791.8	26324.8	25687.3	21742.8
50°	21311.6	21401.1	21601.8	21566.6	21498.7	21382.0	21393.0	23842.5	28926.3	28486.8	24021.7
52.5°	20858.6	20855.8	21588.2	22478.1	23427.5	23498.0	23373.3	26004.7	31357.0	31224.0	26167.4
55°	18786.0	18927.1	20036.5	21759.1	24352.6	25972.2	26341.1	28481.4	33744.2	33898.8	28345.7
57.5°	15335.3	15451.9	16949.4	19350.2	23104.6	27442.4	30562.1	32081.3	36413.5	37135.3	31245.7
60°	10400.8	10541.8	12128.8	15012.6	19746.4	26623.2	34579.7	38505.2	39609.2	41250.4	35314.9
62.5°	6111.9	6239.4	7533.4	9470.3	13903.0	22817.2	36343.1	47644.5	44684.8	47460.1	41521.7
65°	4207.5	4294.3	4923.7	5894.9	7989.2	15367.8	34156.6	53954.4	52495.0	55153.4	48718.8
67.5°	3385.5	3374.8	3873.9	4535.7	5143.4	7923.9	25828.3	53240.9	59363.7	60473.2	52454.2
70°	2788.8	2777.9	3116.9	3664.9	4109.8	4462.5	14068.4	44929.0	57963.9	58414.3	49014.4
72.5°	2333.0	2343.9	2560.9	2967.8	3372.0	3361.1	6182.5	31606.5	45599.0	48713.3	39072.0
75°	1969.4	1975.0	2118.7	2406.2	2737.1	2707.3	3353.1	17123.0	26506.6	28674.1	21658.9
77.5°	1676.4	1681.9	1774.2	1934.2	2170.2	2159.3	2447.0	7397.7	11057.2	10921.7	7408.6
80°	1494.7	1494.7	1538.2	1568.0	1698.2	1649.4	1814.8	3553.8	4674.2	4316.0	2957.0
82.5°	1171.8	1177.4	1443.1	1432.3	1337.3	1275.1	1275.1	2094.3	2476.7	2289.6	1730.8
85°	659.1	656.5	930.5	1123.2	1177.4	897.9	889.9	1171.8	1348.3	1188.2	838.3
87.5°	282.2	287.5	431.4	499.2	667.4	558.8	550.8	605.0	686.3	594.0	387.9
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°	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4	7655.4
2.5°	7658.2	7587.7	7433.0	7240.3	7066.7	6952.8	6849.8	6700.5	6708.7	6605.5	6529.7
5°	7652.8	7506.2	7148.2	6722.2	6312.6	6016.9	5794.4	5593.7	5544.9	5449.9	5393.1
7.5°	7658.2	7419.5	6817.1	6136.3	5629.0	5254.6	5064.7	4959.0	4934.5	4902.1	4904.7
10°	7677.2	7340.8	6453.8	5588.4	5056.6	4809.7	4763.6	4796.2	4834.1	4845.0	4847.8
12.5°	7720.6	7270.3	6054.9	5099.9	4698.6	4622.6	4701.2	4812.5	4885.7	4920.9	4918.3
15°	7818.2	7215.9	5672.3	4717.4	4500.5	4541.2	4687.6	4845.0	4950.7	4999.6	5002.3
17.5°	7923.9	7137.4	5279.1	4424.5	4354.1	4457.1	4638.8	4823.3	4953.6	5007.8	5018.7
20°	8062.4	7039.7	4866.7	4204.7	4215.7	4332.3	4503.3	4687.6	4831.4	4877.5	4899.3
22.5°	8244.1	6933.8	4505.9	4025.8	4058.4	4147.8	4280.8	4440.9	4565.5	4587.4	4606.2
25°	8488.3	6819.9	4218.4	3863.0	3876.5	3928.1	4017.6	4112.6	4199.3	4175.0	4193.9
27.5°	8816.5	6722.2	4004.0	3713.9	3689.3	3700.2	3746.3	3776.1	3822.3	3754.5	3762.6
30°	9201.8	6616.5	3838.5	3583.6	3515.7	3496.7	3507.6	3524.0	3559.2	3466.9	3453.4
32.5°	9649.4	6488.9	3683.9	3469.7	3374.8	3336.8	3342.1	3385.5	3521.1	3464.3	3434.4
35°	10170.3	6345.2	3521.1	3344.8	3279.7	3225.5	3220.1	3355.7	3759.9	3724.6	3697.6
37.5°	10780.6	6201.4	3358.5	3203.7	3209.3	3149.5	3130.6	3285.2	3805.9	3667.7	3648.6
40°	11556.4	6125.5	3220.1	3054.5	3122.4	3114.2	3076.2	3154.9	3502.2	3249.9	3217.4
42.5°	12516.8	6136.3	3116.9	2894.5	3019.4	3106.1	3046.4	3049.1	3173.9	2984.1	2954.3
45°	13702.2	6263.8	3043.7	2767.0	2902.7	3098.0	3035.6	2992.2	3003.0	2902.7	2886.4
47.5°	15085.7	6526.9	2992.2	2661.1	2791.5	3068.2	3032.9	2975.9	2951.6	2897.3	2883.6
50°	16623.9	6909.5	2954.3	2560.9	2691.1	3019.4	3035.6	2959.6	2932.4	2910.8	2902.7
52.5°	18135.0	7346.2	2897.3	2474.0	2612.5	2959.6	3043.7	2943.3	2913.6	2897.3	2889.0
55°	19819.6	7891.5	2810.4	2400.8	2547.4	2883.6	3043.7	2919.0	2886.4	2889.0	2886.4
57.5°	22095.6	8773.0	2707.3	2338.4	2468.6	2791.5	2992.2	2891.9	2851.1	2853.8	2856.6
60°	25652.0	10327.5	2582.5	2276.0	2370.9	2683.0	2921.6	2832.1	2791.5	2802.4	2805.0
62.5°	30882.2	12609.0	2419.9	2183.8	2268.0	2566.3	2824.0	2756.2	2715.4	2742.6	2742.6
65°	36318.7	14621.8	2219.1	2067.1	2159.3	2438.8	2701.9	2661.1	2620.5	2683.0	2680.3
67.5°	37780.8	14171.5	2018.3	1939.6	2050.9	2297.8	2555.5	2533.7	2512.0	2620.5	2615.1
70°	33562.5	11377.4	1833.8	1809.5	1931.4	2145.8	2398.0	2398.0	2384.6	2465.8	2447.0
72.5°	25570.7	8067.8	1657.6	1671.0	1795.8	1980.4	2227.2	2246.2	2224.5	2265.2	2248.8
75°	13688.6	4617.2	1481.1	1519.2	1627.6	1812.2	2037.3	2056.3	2042.7	2040.1	2048.1
77.5°	4549.3	2257.0	1296.8	1356.4	1451.3	1638.5	1839.3	1869.2	1836.6	1831.1	1828.4
80°	2026.4	1418.9	1093.2	1171.8	1256.0	1440.5	1630.3	1654.8	1619.6	1668.3	1606.0
82.5°	1302.2	933.2	876.2	963.1	1044.4	1242.4	1421.5	1426.9	1394.3	1619.6	1380.9
85°	632.0	577.8	659.1	737.9	808.5	976.5	1177.4	1180.1	1098.6	1001.0	965.8
87.5°	314.6	336.3	439.5	510.0	545.4	670.0	857.3	841.0	805.7	732.5	675.4
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)