

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: P192178

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192178
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57817 lumens
Efficiency: N/A
Efficacy: 103.6 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): 558
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

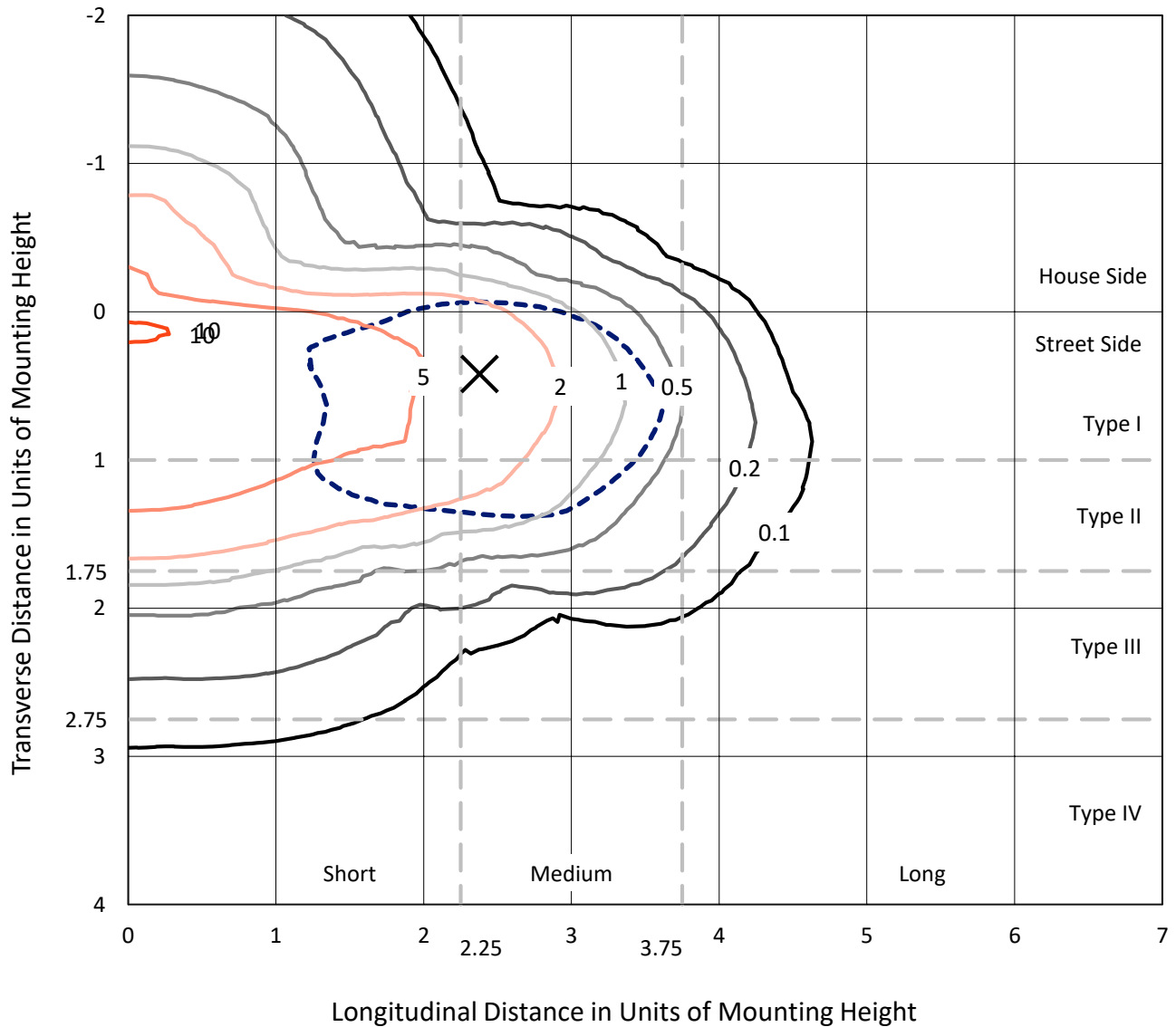


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

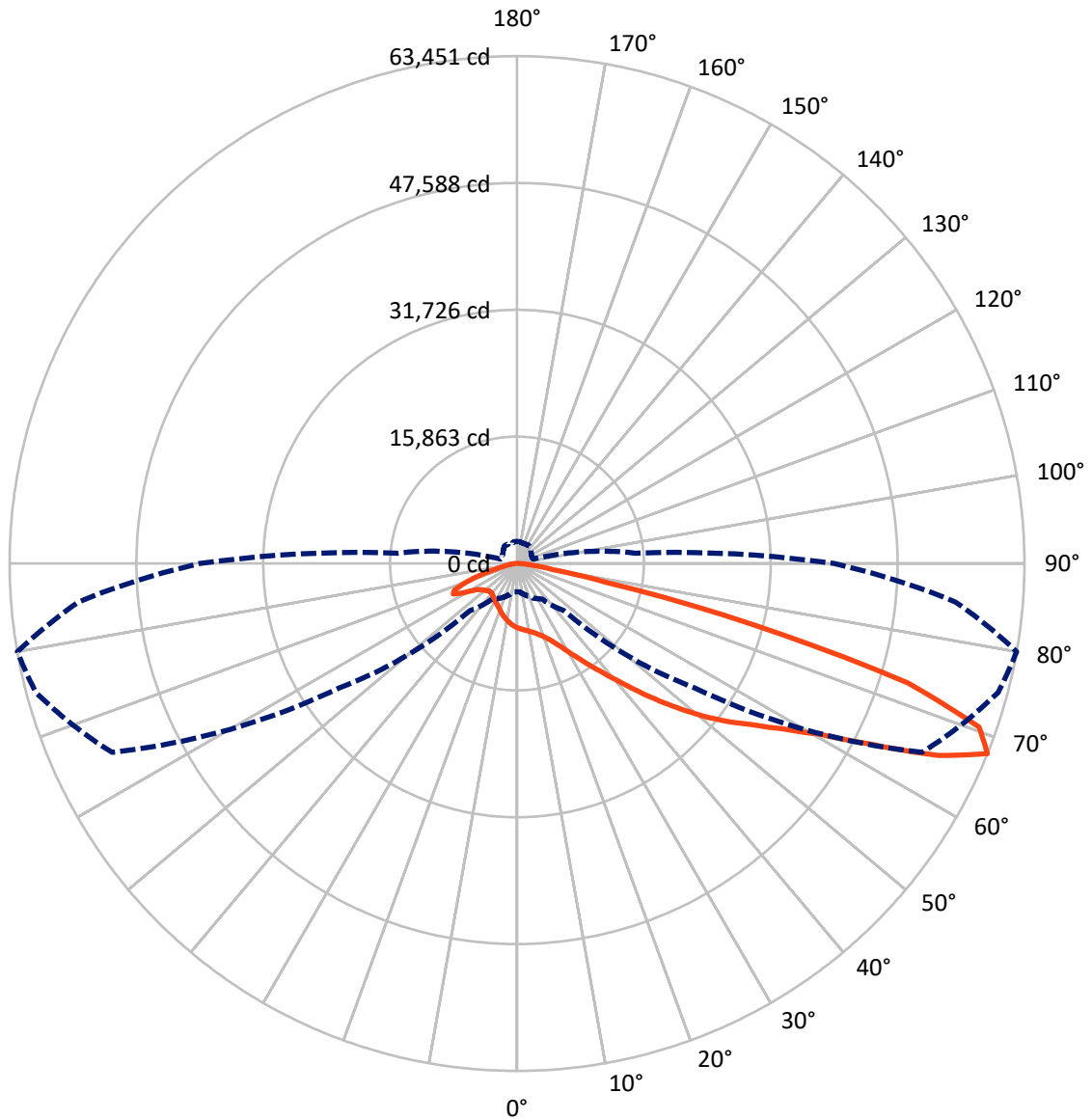


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - Full Cutoff

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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	10647.7	0.0	10647.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	47169.3	0.0	47169.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	57817.0	0.0	57817.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.0	1.3
10°-20°	2134.5	3.7
20°-30°	3533.0	6.1
30°-40°	5779.1	10.0
40°-50°	9331.0	16.1
50°-60°	13471.2	23.3
60°-70°	14866.3	25.7
70°-80°	6852.5	11.9
80°-90°	1108.3	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°	57817.0	100.0
0°-180°	57817.0	100.0



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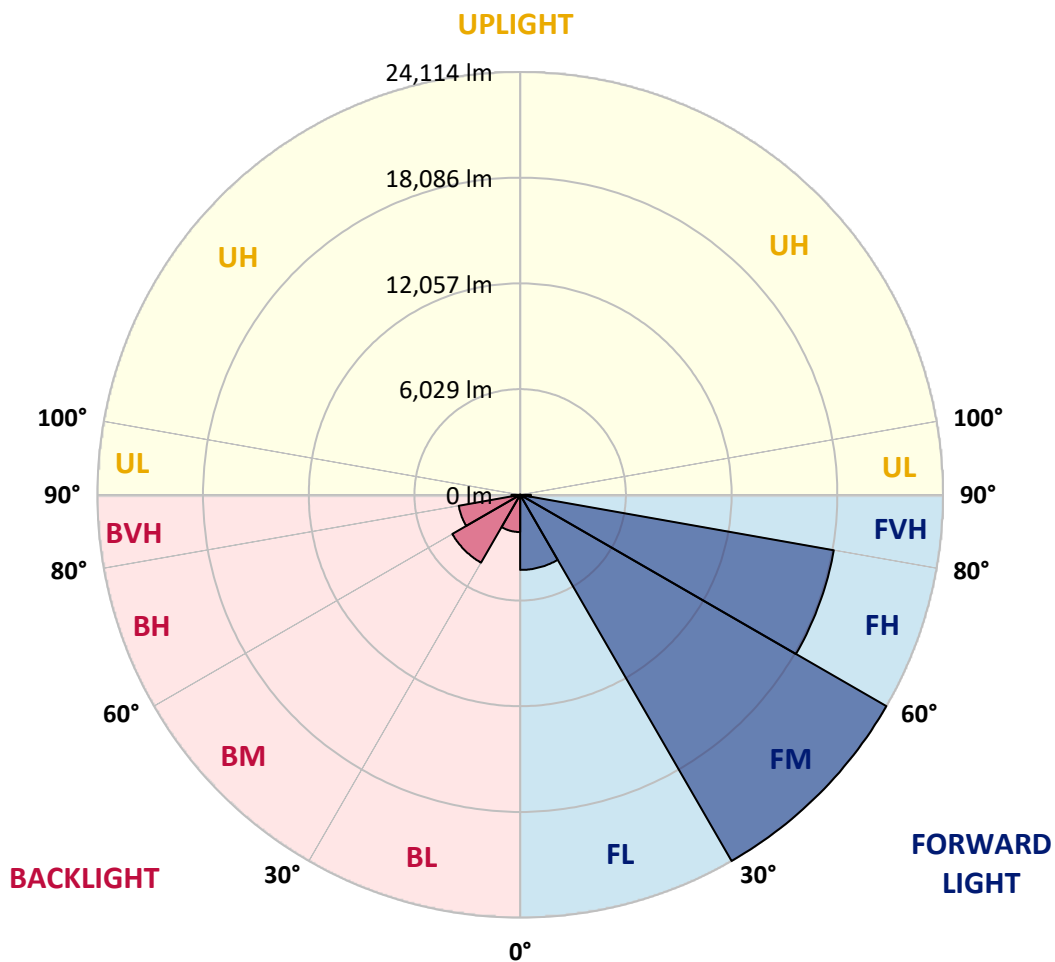
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4284.1	7.4			
FM	(30°-60°)	24114.0	41.7			
FH	(60°-80°)	18161.8	31.4			G5
FVH	(80°-90°)	609.4	1.1			G4/750
BL	(0°-30°)	2124.4	3.7	B3/2500		
BM	(30°-60°)	4467.4	7.7	B3/5000		
BH	(60°-80°)	3557.0	6.2	B4/5000		G4/5000
BVH	(80°-90°)	499.0	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°	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5
2.5°	8786.8	8735.5	8744.1	8729.8	8687.1	8613.1	8533.4	8388.3	8237.4	8157.7	8095.1
5°	9521.1	9506.9	9487.0	9441.4	9333.3	9179.6	8988.8	8732.7	8456.6	8311.4	8171.9
7.5°	10070.5	10061.9	10036.3	10007.8	9902.5	9717.5	9430.0	9065.7	8664.4	8465.1	8248.8
10°	10116.0	10130.2	10150.2	10227.0	10241.2	10141.6	9848.4	9407.3	8880.7	8624.5	8348.4
12.5°	9728.9	9760.2	9837.1	10033.5	10241.2	10363.6	10212.8	9765.9	9134.0	8823.8	8473.7
15°	9216.6	9233.6	9327.6	9598.0	9970.8	10349.4	10491.7	10161.5	9461.3	9079.9	8661.5
17.5°	8997.4	9005.9	9071.4	9250.7	9598.0	10138.8	10648.3	10591.4	9862.7	9398.7	8892.1
20°	8886.4	8906.3	9000.2	9176.7	9395.9	9868.4	10671.1	11055.3	10340.9	9797.2	9182.4
22.5°	9202.3	9193.8	9227.9	9316.2	9501.2	9785.8	10654.0	11533.5	10950.0	10309.6	9561.0
25°	9939.5	9970.8	9911.1	9811.4	9871.2	10070.5	10745.1	12051.5	11712.8	10967.1	10056.2
27.5°	10989.8	10958.5	10870.3	10636.9	10514.5	10599.9	11046.8	12609.4	12660.7	11832.4	10710.9
30°	12037.3	12011.7	11926.3	11641.7	11391.2	11320.0	11633.1	13249.9	13790.7	12871.3	11513.6
32.5°	13124.6	13096.2	13016.5	12731.8	12430.1	12265.0	12467.1	13989.9	15122.8	14112.3	12458.6
35°	14465.3	14411.2	14243.2	13847.6	13551.6	13423.5	13517.4	14920.7	16659.8	15581.0	13605.7
37.5°	15726.2	15808.8	15638.0	15091.5	14707.2	14661.7	14767.0	16056.4	18316.4	17223.4	14923.5
40°	16992.8	17007.1	16853.4	16406.5	16010.8	15936.8	16201.6	17434.0	20271.9	19187.4	16526.0
42.5°	18302.2	18330.6	18071.6	17658.9	17368.6	17382.8	17684.5	19047.9	22514.8	21501.5	18370.5
45°	19853.4	19896.1	19611.5	19070.7	18806.0	19338.3	19213.0	20858.2	24974.1	24131.5	20488.2
47.5°	21475.9	21541.3	21325.0	20818.4	20488.2	21219.7	20741.5	22864.9	27621.2	26952.3	22813.7
50°	22361.1	22455.0	22665.7	22628.7	22557.5	22435.1	22446.5	25016.8	30350.9	29889.8	25204.6
52.5°	21885.8	21882.9	22651.4	23585.0	24581.3	24655.3	24524.3	27285.3	32901.2	32761.7	27456.1
55°	19711.1	19859.1	21023.3	22830.8	25551.9	27251.2	27638.3	29884.1	35406.0	35568.3	29741.7
57.5°	16090.5	16212.9	17784.1	20303.2	24242.6	28793.9	32067.2	33661.2	38206.9	38964.0	32784.5
60°	10913.0	11061.0	12726.1	15751.8	20718.7	27934.3	36282.7	40401.4	41559.9	43281.9	37054.1
62.5°	6412.9	6546.7	7904.4	9936.7	14587.7	23940.8	38132.9	49990.8	46885.4	49797.3	43566.6
65°	4414.7	4505.8	5166.2	6185.2	8382.6	16124.7	35838.7	56611.5	55080.2	57869.6	51118.0
67.5°	3552.3	3540.9	4064.6	4759.1	5396.7	8314.3	27100.3	55862.9	62287.2	63451.3	55037.5
70°	2926.1	2914.7	3270.5	3845.4	4312.3	4682.3	14761.3	47141.6	60818.4	61290.9	51428.3
72.5°	2447.9	2459.3	2687.0	3113.9	3538.0	3526.7	6486.9	33163.1	47844.7	51112.3	40996.3
75°	2066.5	2072.2	2223.0	2524.7	2872.0	2840.7	3518.1	17966.3	27811.9	30086.2	22725.4
77.5°	1759.1	1764.8	1861.5	2029.5	2277.1	2265.7	2567.4	7762.1	11601.8	11459.5	7773.4
80°	1568.4	1568.4	1613.9	1645.2	1781.8	1730.6	1904.2	3728.7	4904.3	4528.6	3102.5
82.5°	1229.6	1235.3	1514.3	1502.9	1403.3	1337.8	1337.8	2197.4	2598.7	2402.3	1816.0
85°	691.7	688.8	976.3	1178.4	1235.3	942.1	933.6	1229.6	1414.6	1246.7	879.5
87.5°	296.0	301.7	452.6	523.7	700.2	586.4	577.8	634.7	720.1	623.4	407.0
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°	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5	8032.5
2.5°	8035.3	7961.3	7799.1	7597.0	7414.8	7295.3	7187.1	7030.5	7039.1	6930.9	6851.2
5°	8029.6	7875.9	7500.2	7053.3	6623.5	6313.3	6079.9	5869.2	5818.0	5718.4	5658.6
7.5°	8035.3	7784.8	7152.9	6438.5	5906.2	5513.4	5314.2	5203.2	5177.6	5143.4	5146.2
10°	8055.2	7702.3	6771.5	5863.5	5305.6	5046.6	4998.2	5032.4	5072.2	5083.6	5086.5
12.5°	8100.8	7628.3	6353.1	5351.2	4929.9	4850.2	4932.8	5049.5	5126.3	5163.3	5160.5
15°	8203.2	7571.4	5951.8	4949.8	4722.1	4764.8	4918.5	5083.6	5194.6	5245.9	5248.7
17.5°	8314.3	7488.8	5539.0	4642.4	4568.4	4676.6	4867.3	5060.9	5197.5	5254.4	5265.8
20°	8459.4	7386.3	5106.4	4411.9	4423.3	4545.7	4725.0	4918.5	5069.4	5117.8	5140.5
22.5°	8650.1	7275.3	4727.8	4224.0	4258.2	4352.1	4491.6	4659.5	4790.4	4813.2	4833.1
25°	8906.3	7155.8	4426.1	4053.2	4067.5	4121.5	4215.5	4315.1	4406.2	4380.6	4400.5
27.5°	9250.7	7053.3	4201.2	3896.7	3871.1	3882.5	3930.8	3962.2	4010.5	3939.4	3947.9
30°	9654.9	6942.3	4027.6	3760.1	3688.9	3669.0	3680.4	3697.4	3734.4	3637.7	3623.4
32.5°	10124.5	6808.5	3865.4	3640.5	3540.9	3501.0	3506.7	3552.3	3694.6	3634.8	3603.5
35°	10671.1	6657.7	3694.6	3509.6	3441.3	3384.3	3378.6	3521.0	3945.1	3908.1	3879.6
37.5°	11311.5	6506.8	3523.8	3361.6	3367.3	3304.6	3284.7	3447.0	3993.5	3848.3	3828.4
40°	12125.5	6427.1	3378.6	3205.0	3276.2	3267.6	3227.8	3310.3	3674.7	3410.0	3375.8
42.5°	13133.2	6438.5	3270.5	3037.1	3168.0	3259.1	3196.5	3199.3	3330.3	3131.0	3099.7
45°	14377.0	6572.3	3193.6	2903.3	3045.6	3250.6	3185.1	3139.5	3150.9	3045.6	3028.5
47.5°	15828.7	6848.4	3139.5	2792.3	2928.9	3219.2	3182.2	3122.5	3096.9	3039.9	3025.7
50°	17442.6	7249.7	3099.7	2687.0	2823.6	3168.0	3185.1	3105.4	3076.9	3054.2	3045.6
52.5°	19028.0	7708.0	3039.9	2595.9	2741.1	3105.4	3193.6	3088.3	3057.0	3039.9	3031.4
55°	20795.6	8280.1	2948.8	2519.0	2672.7	3025.7	3193.6	3062.7	3028.5	3031.4	3028.5
57.5°	23183.7	9205.2	2840.7	2453.6	2590.2	2928.9	3139.5	3034.2	2991.5	2994.4	2997.2
60°	26915.3	10836.1	2709.7	2388.1	2487.7	2815.1	3065.5	2971.6	2928.9	2940.3	2943.1
62.5°	32403.1	13229.9	2539.0	2291.3	2379.6	2692.7	2963.1	2891.9	2849.2	2877.7	2877.7
65°	38107.2	15341.9	2328.3	2168.9	2265.7	2558.9	2835.0	2792.3	2749.6	2815.1	2812.2
67.5°	39641.4	14869.4	2117.7	2035.2	2151.9	2410.9	2681.3	2658.5	2635.7	2749.6	2743.9
70°	35215.3	11937.7	1924.1	1898.5	2026.6	2251.5	2516.2	2516.2	2502.0	2587.4	2567.4
72.5°	26829.9	8465.1	1739.1	1753.4	1884.3	2077.9	2336.9	2356.8	2334.0	2376.7	2359.6
75°	14362.8	4844.5	1554.1	1594.0	1707.8	1901.4	2137.6	2157.6	2143.3	2140.5	2149.0
77.5°	4773.4	2368.2	1360.6	1423.2	1522.8	1719.2	1929.8	1961.2	1927.0	1921.3	1918.5
80°	2126.2	1488.7	1147.1	1229.6	1317.9	1511.4	1710.7	1736.3	1699.3	1750.5	1685.1
82.5°	1366.3	979.2	919.4	1010.5	1095.9	1303.6	1491.5	1497.2	1463.0	1699.3	1448.8
85°	663.2	606.3	691.7	774.2	848.2	1024.7	1235.3	1238.2	1152.8	1050.3	1013.3
87.5°	330.2	353.0	461.1	535.1	572.1	703.1	899.5	882.4	845.4	768.5	708.7
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)