

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: P191367

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191367
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-09-LED-E1-T2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43159.3 lumens
Efficiency: N/A
Efficacy: 115.4 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

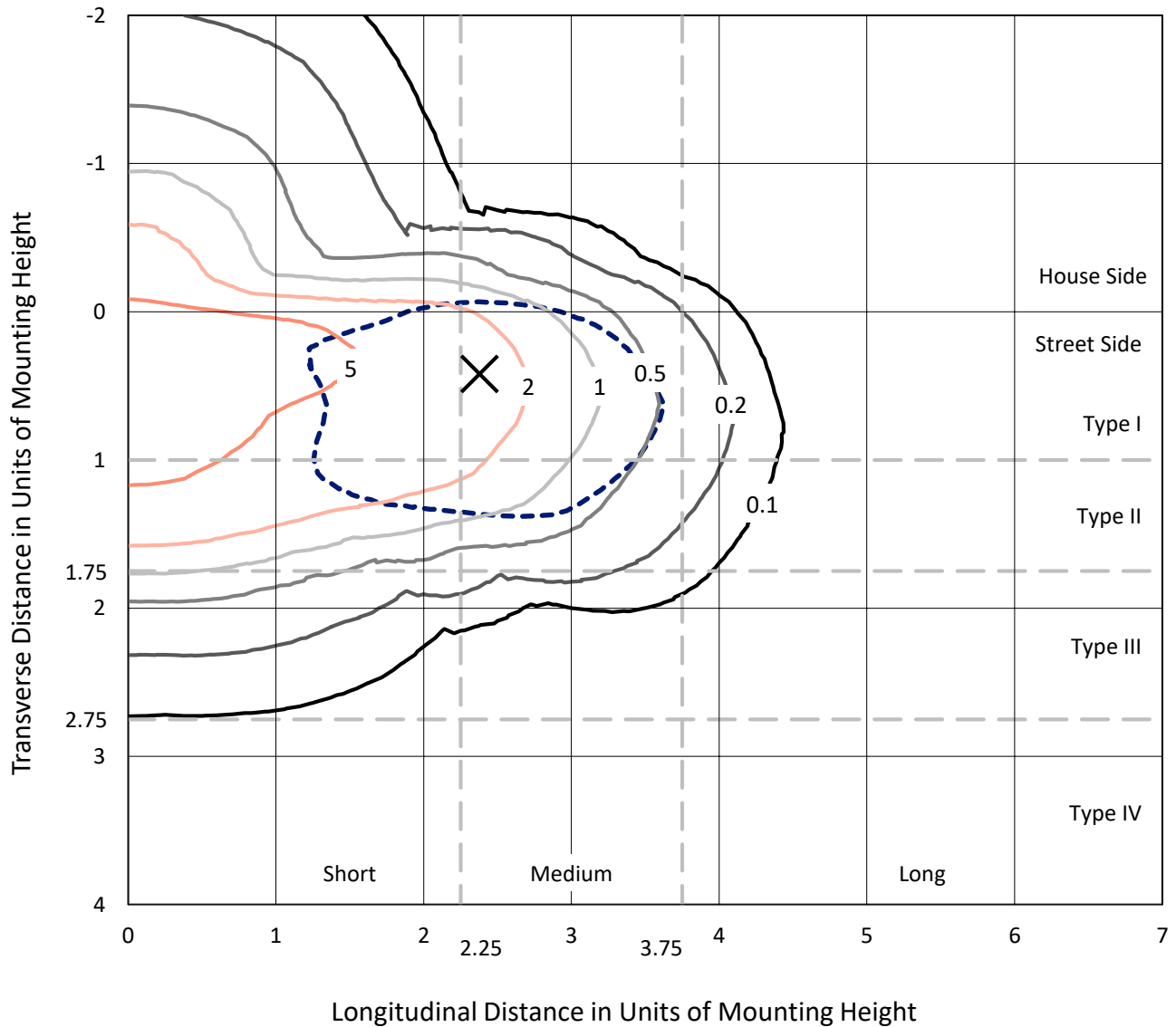
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

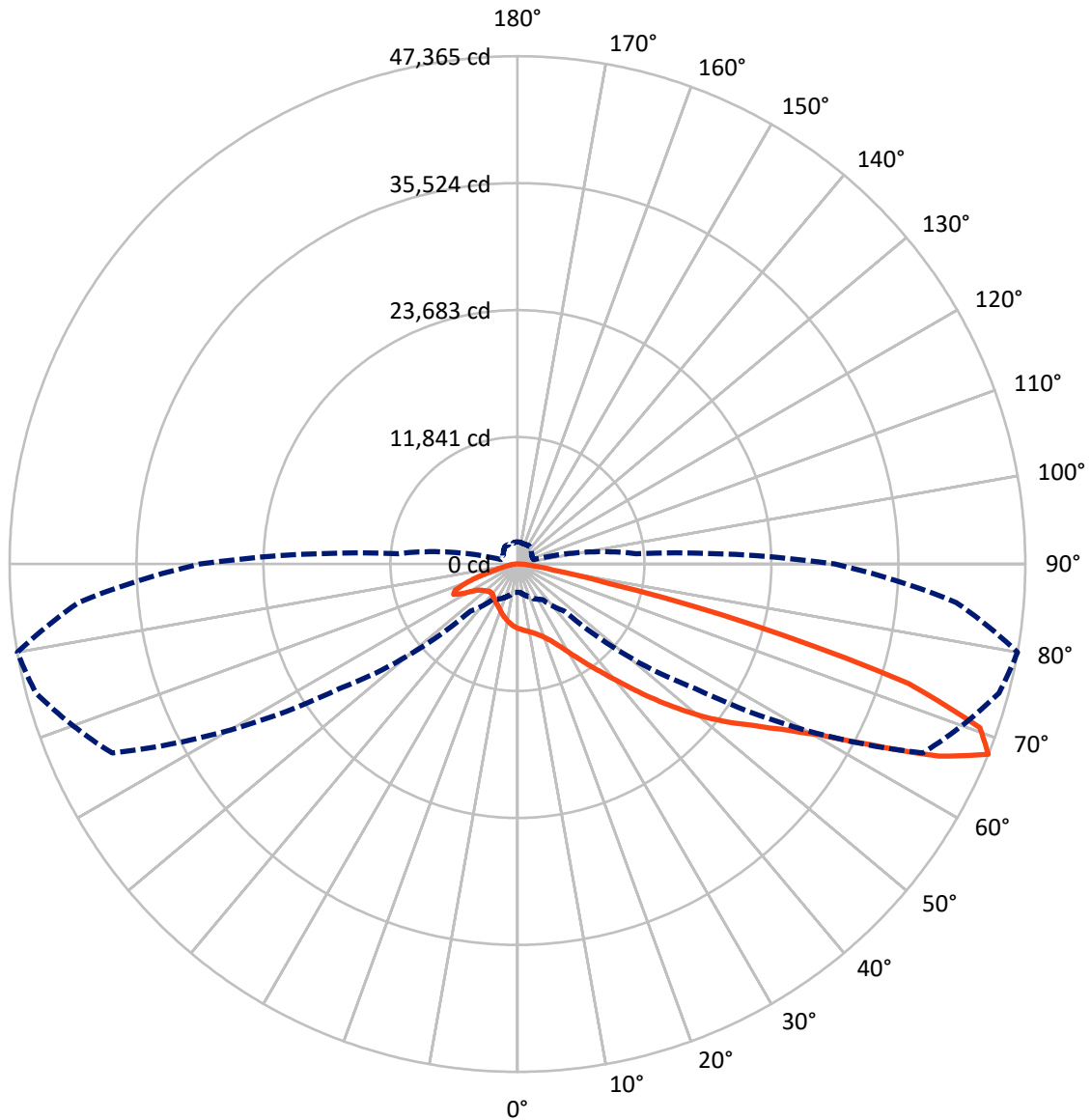
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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	7948.3	0.0	7948.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	35211.0	0.0	35211.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	43159.3	0.0	43159.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.1	1.3
10°-20°	1593.4	3.7
20°-30°	2637.4	6.1
30°-40°	4314.0	10.0
40°-50°	6965.4	16.1
50°-60°	10056.0	23.3
60°-70°	11097.4	25.7
70°-80°	5115.2	11.9
80°-90°	827.4	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°	43159.3	100.0
0°-180°	43159.3	100.0



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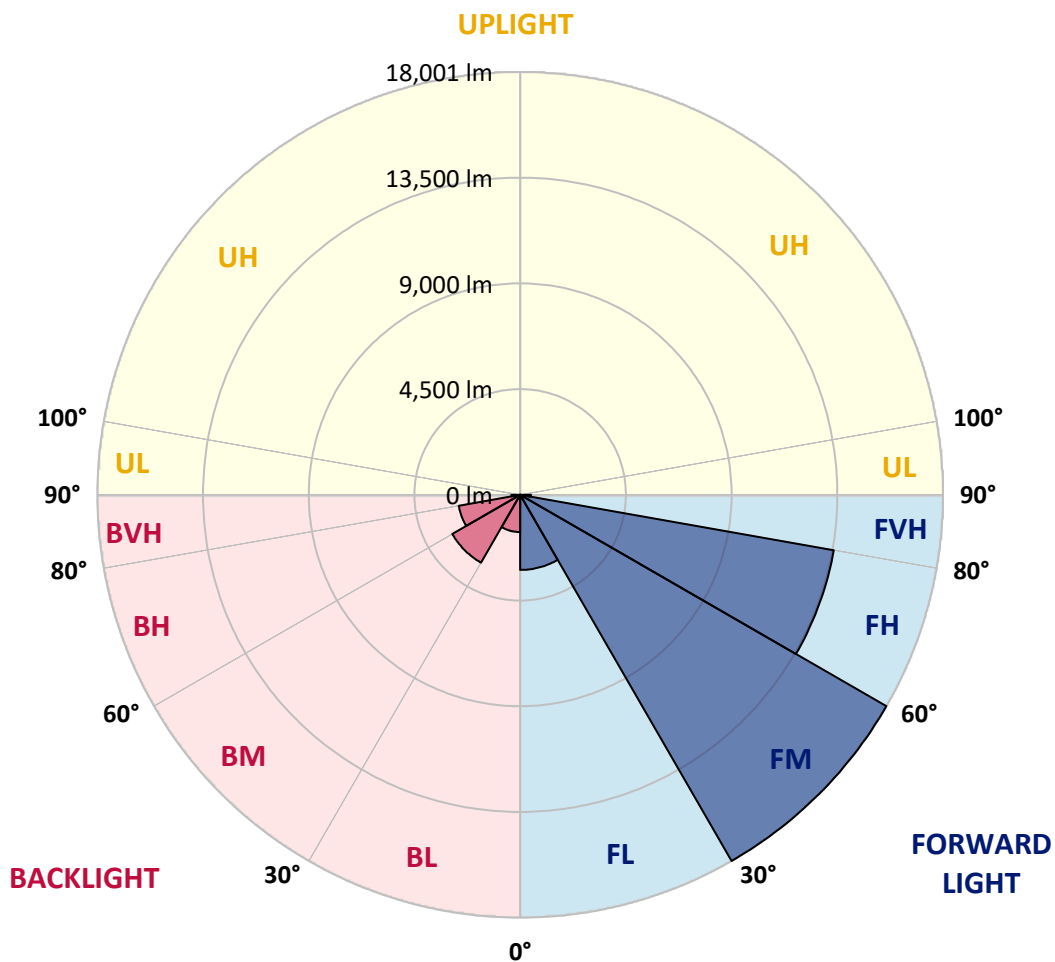
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3198.0	7.4			
FM	(30°-60°)	18000.7	41.7			
FH	(60°-80°)	13557.5	31.4			G5
FVH	(80°-90°)	454.9	1.1			G3/500
BL	(0°-30°)	1585.8	3.7	B3/2500		
BM	(30°-60°)	3334.8	7.7	B3/5000		
BH	(60°-80°)	2655.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	372.5	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°	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1
2.5°	6559.2	6520.9	6527.2	6516.6	6484.8	6429.6	6370.0	6261.7	6149.1	6089.5	6042.9
5°	7107.4	7096.7	7081.9	7047.8	6967.1	6852.3	6710.0	6518.8	6312.6	6204.3	6100.2
7.5°	7517.5	7511.0	7491.9	7470.7	7392.0	7253.9	7039.3	6767.3	6467.8	6319.1	6157.6
10°	7551.4	7562.1	7576.9	7634.3	7644.9	7570.6	7351.6	7022.4	6629.2	6438.0	6231.9
12.5°	7262.4	7285.9	7343.2	7489.8	7644.9	7736.3	7623.6	7290.1	6818.4	6586.8	6325.4
15°	6880.0	6892.7	6962.8	7164.7	7443.1	7725.6	7831.9	7585.4	7062.8	6778.0	6465.7
17.5°	6716.4	6722.7	6771.6	6905.5	7164.7	7568.4	7948.7	7906.3	7362.3	7016.0	6637.7
20°	6633.5	6648.4	6718.5	6850.2	7013.9	7366.6	7965.7	8252.6	7719.3	7313.5	6854.5
22.5°	6869.3	6863.0	6888.4	6954.3	7092.4	7304.9	7953.0	8609.6	8174.0	7695.9	7137.1
25°	7419.7	7443.1	7398.4	7324.0	7368.7	7517.5	8021.0	8996.2	8743.4	8186.7	7506.8
27.5°	8203.8	8180.3	8114.5	7940.2	7848.9	7912.6	8246.2	9412.7	9450.9	8832.7	7995.5
30°	8985.6	8966.5	8902.7	8690.3	8503.3	8450.2	8683.9	9890.8	10294.5	9608.2	8594.6
32.5°	9797.3	9776.0	9716.5	9504.0	9278.9	9155.6	9306.5	10443.2	11288.9	10534.6	9300.1
35°	10798.1	10757.7	10632.3	10337.0	10116.0	10020.4	10090.5	11138.0	12436.2	11631.0	10156.4
37.5°	11739.3	11801.0	11673.5	11265.5	10978.6	10944.7	11023.3	11985.8	13672.9	12857.0	11140.1
40°	12684.8	12695.4	12580.8	12247.2	11951.7	11896.5	12094.1	13014.2	15132.6	14323.1	12336.4
42.5°	13662.2	13683.5	13490.2	13182.1	12965.3	12975.9	13201.2	14218.9	16806.9	16050.5	13713.3
45°	14820.2	14852.1	14639.7	14235.9	14038.4	14435.7	14342.2	15570.2	18642.7	18013.8	15294.0
47.5°	16031.4	16080.2	15918.8	15540.6	15294.0	15840.1	15483.2	17068.2	20618.7	20119.4	17030.0
50°	16692.1	16762.3	16919.5	16891.9	16838.8	16747.3	16755.9	18674.6	22656.3	22312.2	18814.8
52.5°	16337.3	16335.2	16908.9	17605.8	18349.5	18404.7	18306.9	20368.0	24560.1	24456.0	20495.4
55°	14714.0	14824.5	15693.5	17042.8	19074.0	20342.5	20631.5	22307.9	26430.0	26551.1	22201.6
57.5°	12011.3	12102.6	13275.5	15155.9	18096.6	21494.1	23937.6	25127.5	28520.7	29085.9	24473.1
60°	8146.4	8256.8	9499.8	11758.4	15466.2	20852.4	27084.4	30158.9	31023.6	32309.2	27660.2
62.5°	4787.1	4886.9	5900.5	7417.5	10889.4	17871.4	28465.4	37317.2	34999.1	37172.7	32521.7
65°	3295.5	3363.5	3856.4	4617.1	6257.4	12036.8	26752.9	42259.4	41116.3	43198.6	38158.6
67.5°	2651.7	2643.2	3034.2	3552.6	4028.6	6206.4	20229.9	41700.6	46496.2	47365.3	41084.5
70°	2184.3	2175.7	2441.4	2870.6	3219.0	3495.2	11019.0	35190.3	45399.9	45752.5	38390.2
72.5°	1827.3	1835.8	2005.8	2324.5	2641.1	2632.6	4842.3	24755.6	35715.2	38154.4	30603.0
75°	1542.6	1546.8	1659.4	1884.7	2143.9	2120.5	2626.2	13411.5	20761.1	22458.8	16964.1
77.5°	1313.1	1317.4	1389.6	1515.0	1699.8	1691.3	1916.5	5794.2	8660.5	8554.3	5802.7
80°	1170.8	1170.8	1204.7	1228.2	1330.1	1291.9	1421.5	2783.4	3660.9	3380.5	2316.0
82.5°	917.9	922.2	1130.4	1121.9	1047.5	998.6	998.6	1640.3	1939.9	1793.3	1355.6
85°	516.3	514.2	728.8	879.6	922.2	703.3	696.9	917.9	1056.0	930.7	656.5
87.5°	221.0	225.3	337.9	391.0	522.7	437.7	431.3	473.8	537.6	465.3	303.8
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°	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1	5996.1
2.5°	5998.2	5942.9	5821.8	5671.0	5535.0	5445.8	5365.1	5248.1	5254.6	5173.8	5114.3
5°	5994.0	5879.2	5598.7	5265.1	4944.3	4712.7	4538.5	4381.3	4343.0	4268.7	4224.1
7.5°	5998.2	5811.2	5339.5	4806.2	4408.9	4115.6	3966.9	3884.0	3864.9	3839.4	3841.6
10°	6013.1	5749.6	5054.8	4377.0	3960.6	3767.2	3731.1	3756.6	3786.4	3794.8	3797.0
12.5°	6047.1	5694.4	4742.5	3994.5	3680.1	3620.6	3682.2	3769.4	3826.7	3854.3	3852.2
15°	6123.6	5651.9	4442.9	3695.0	3525.0	3556.9	3671.6	3794.8	3877.7	3916.0	3918.1
17.5°	6206.4	5590.2	4134.8	3465.5	3410.2	3491.0	3633.3	3777.9	3879.8	3922.3	3930.8
20°	6314.8	5513.8	3811.8	3293.4	3301.9	3393.2	3527.1	3671.6	3784.2	3820.3	3837.3
22.5°	6457.2	5430.9	3529.3	3153.1	3178.6	3248.8	3352.9	3478.2	3575.9	3593.0	3607.8
25°	6648.4	5341.6	3304.0	3025.7	3036.3	3076.6	3146.8	3221.2	3289.1	3270.0	3284.9
27.5°	6905.5	5265.1	3136.2	2908.8	2889.6	2898.2	2934.3	2957.7	2993.8	2940.7	2947.0
30°	7207.2	5182.3	3006.6	2806.8	2753.7	2738.8	2747.3	2760.0	2787.6	2715.4	2704.8
32.5°	7557.8	5082.4	2885.4	2717.6	2643.2	2613.4	2617.7	2651.7	2758.0	2713.3	2690.0
35°	7965.7	4969.8	2758.0	2619.9	2568.8	2526.4	2522.1	2628.4	2945.0	2917.3	2896.1
37.5°	8443.8	4857.2	2630.4	2509.3	2513.6	2466.8	2452.0	2573.1	2981.1	2872.7	2857.8
40°	9051.5	4797.7	2522.1	2392.5	2445.6	2439.2	2409.5	2471.1	2743.0	2545.5	2519.9
42.5°	9803.7	4806.2	2441.4	2267.2	2364.9	2432.9	2386.1	2388.3	2486.0	2337.2	2313.9
45°	10732.2	4906.1	2384.0	2167.2	2273.5	2426.4	2377.6	2343.6	2352.1	2273.5	2260.7
47.5°	11815.8	5112.2	2343.6	2084.4	2186.4	2403.1	2375.5	2330.9	2311.8	2269.2	2258.7
50°	13020.5	5411.8	2313.9	2005.8	2107.8	2364.9	2377.6	2318.1	2296.8	2279.9	2273.5
52.5°	14204.1	5753.9	2269.2	1937.8	2046.1	2318.1	2384.0	2305.3	2282.0	2269.2	2262.9
55°	15523.5	6181.0	2201.3	1880.4	1995.2	2258.7	2384.0	2286.3	2260.7	2262.9	2260.7
57.5°	17306.2	6871.5	2120.5	1831.6	1933.6	2186.4	2343.6	2265.0	2233.1	2235.2	2237.4
60°	20091.8	8089.0	2022.8	1782.7	1857.1	2101.3	2288.3	2218.3	2186.4	2194.8	2197.0
62.5°	24188.3	9875.9	1895.3	1710.5	1776.3	2010.0	2211.9	2158.7	2126.9	2148.1	2148.1
65°	28446.3	11452.4	1738.1	1619.0	1691.3	1910.2	2116.3	2084.4	2052.6	2101.3	2099.3
67.5°	29591.6	11099.7	1580.9	1519.2	1606.3	1799.7	2001.5	1984.5	1967.5	2052.6	2048.3
70°	26287.6	8911.2	1436.3	1417.2	1512.8	1680.7	1878.3	1878.3	1867.7	1931.4	1916.5
72.5°	20028.0	6319.1	1298.2	1308.9	1406.6	1551.1	1744.4	1759.3	1742.3	1774.2	1761.4
75°	10721.5	3616.3	1160.1	1189.9	1274.9	1419.3	1595.7	1610.5	1600.0	1597.8	1604.2
77.5°	3563.2	1767.8	1015.7	1062.3	1136.7	1283.4	1440.6	1463.9	1438.5	1434.2	1432.1
80°	1587.2	1111.2	856.3	917.9	983.8	1128.2	1276.9	1296.1	1268.5	1306.7	1257.8
82.5°	1019.9	730.9	686.3	754.3	818.1	973.1	1113.4	1117.7	1092.1	1268.5	1081.5
85°	495.1	452.6	516.3	578.0	633.2	765.0	922.2	924.2	860.5	784.0	756.4
87.5°	246.4	263.5	344.2	399.5	427.1	524.8	671.5	658.7	631.1	573.7	529.1
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)