

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: P192235

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27746 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

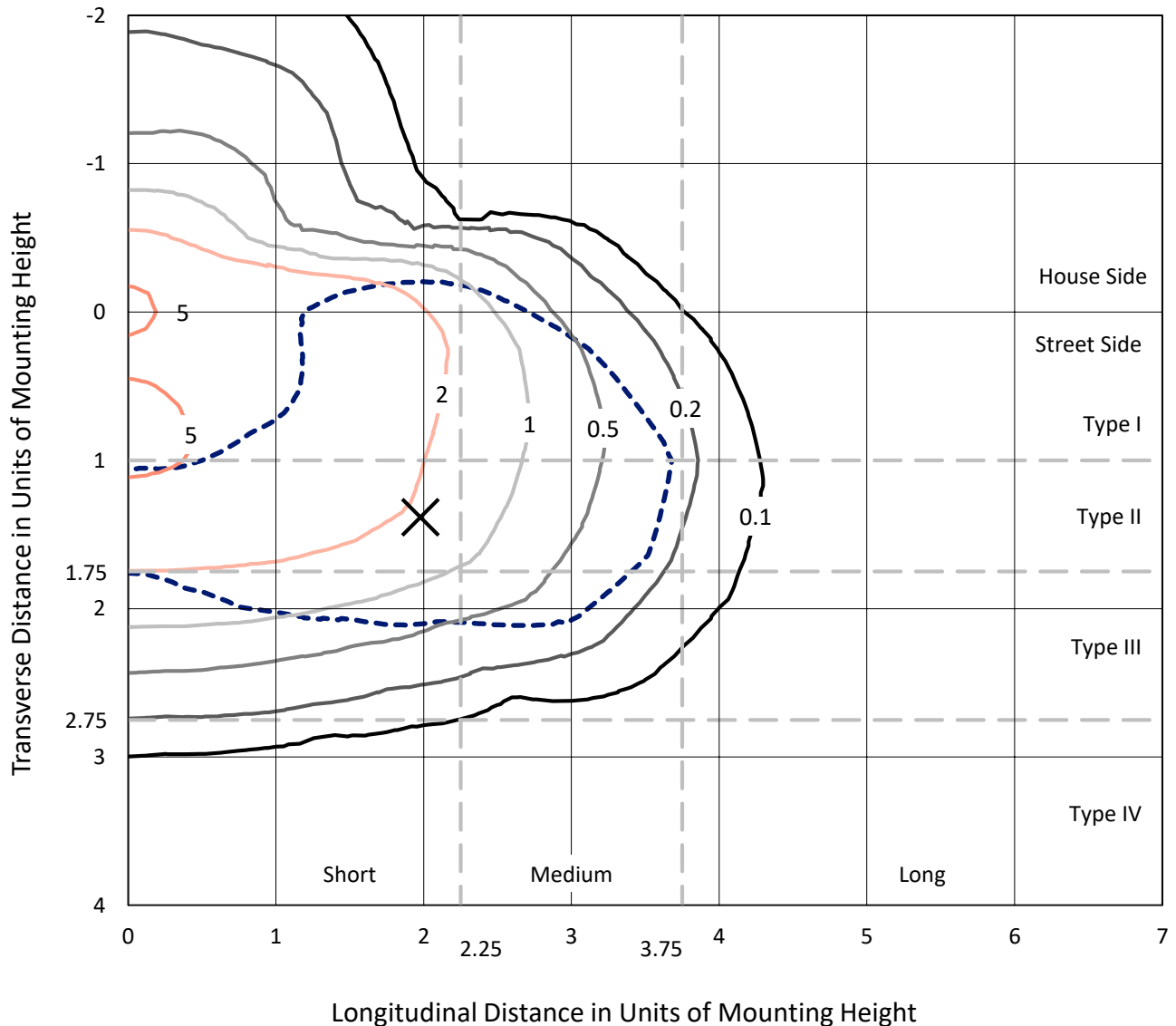
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

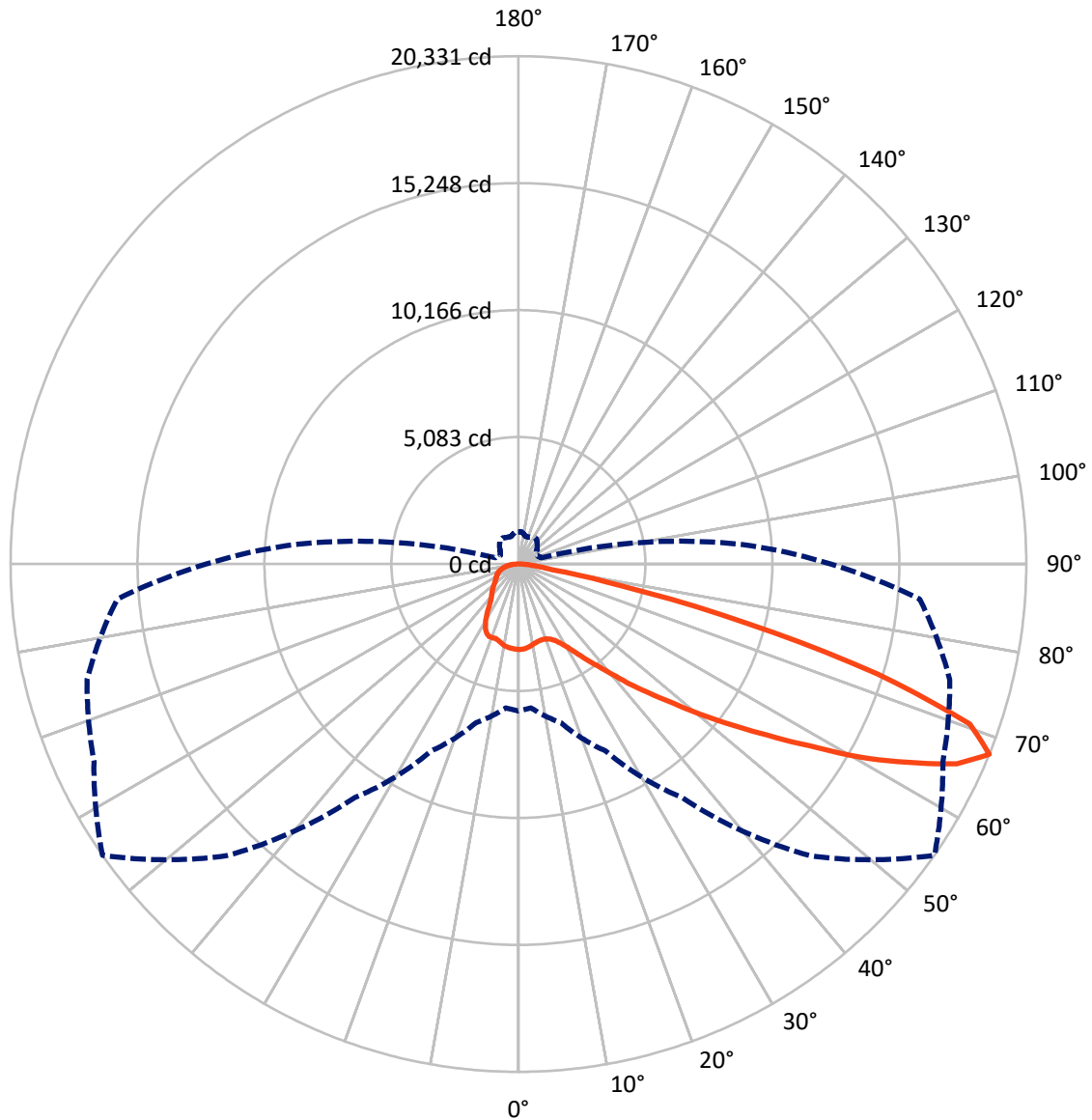
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5993.7	0.0	5993.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21752.3	0.0	21752.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	27746.0	0.0	27746.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	1.2
10°-20°	904.4	3.3
20°-30°	1515.1	5.5
30°-40°	2491.4	9.0
40°-50°	4193.8	15.1
50°-60°	6600.8	23.8
60°-70°	7877.3	28.4
70°-80°	3382.7	12.2
80°-90°	461.2	1.7
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°	27746.0	100.0
0°-180°	27746.0	100.0



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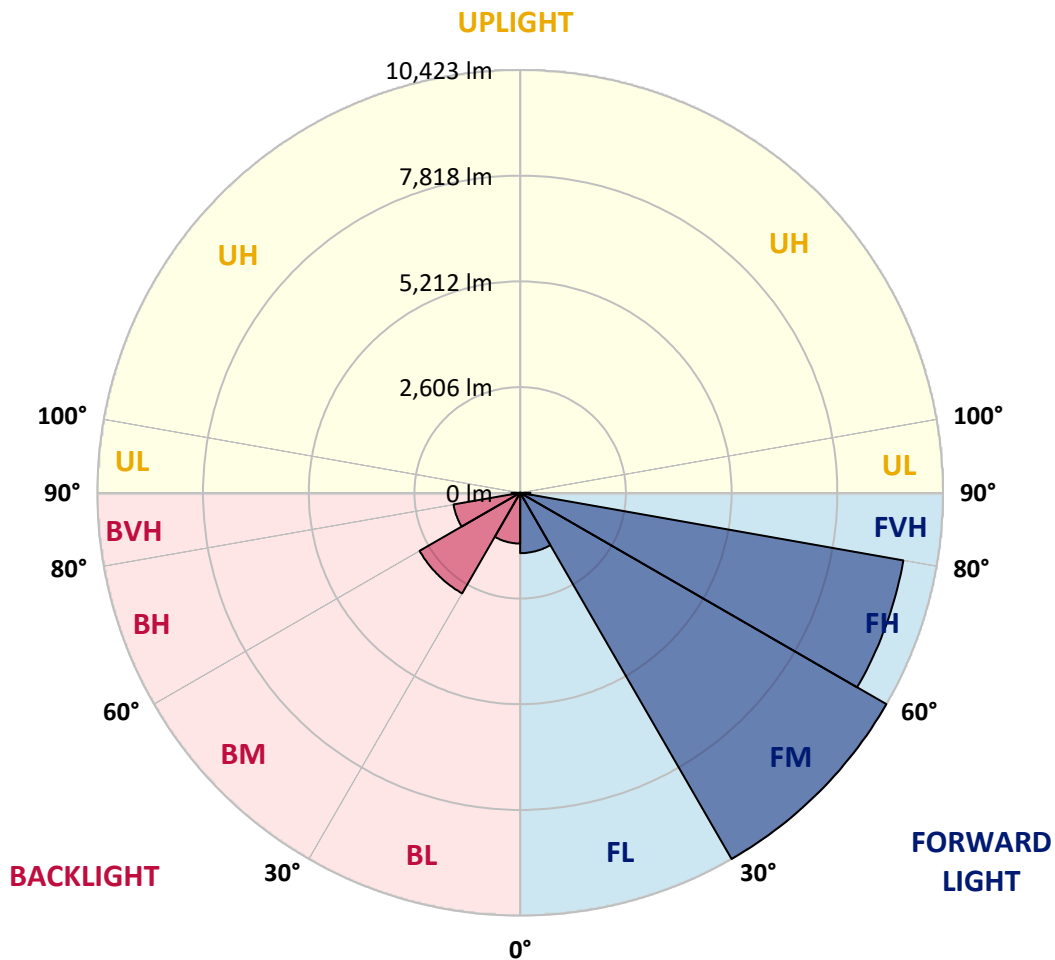
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1487.2	5.4			
FM	(30°-60°)	10423.5	37.6			
FH	(60°-80°)	9591.9	34.6			G4/12000
FVH	(80°-90°)	249.7	0.9			G3/500
BL	(0°-30°)	1251.6	4.5	B3/2500		
BM	(30°-60°)	2862.5	10.3	B3/5000		
BH	(60°-80°)	1668.0	6.0	B3/2500		G3/2500
BVH	(80°-90°)	211.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3391.9	3393.2	3395.9	3406.6	3416.0	3413.3	3414.7	3409.3	3408.0	3399.9	3408.0
5°	3349.0	3353.0	3354.4	3371.8	3382.5	3385.2	3381.2	3374.5	3366.4	3358.4	3362.4
7.5°	3251.2	3261.9	3263.2	3287.4	3304.8	3327.6	3328.9	3330.3	3326.2	3320.9	3328.9
10°	3189.5	3192.2	3190.9	3208.3	3221.7	3247.2	3261.9	3287.4	3298.1	3300.8	3306.1
12.5°	3185.5	3182.8	3178.8	3178.8	3174.8	3185.5	3212.3	3248.5	3274.0	3282.0	3288.7
15°	3228.4	3227.1	3213.7	3193.6	3168.1	3160.1	3182.8	3223.0	3256.5	3274.0	3280.7
17.5°	3324.9	3316.9	3295.4	3249.8	3194.9	3173.5	3176.1	3209.6	3248.5	3271.3	3278.0
20°	3501.8	3501.8	3456.2	3370.5	3272.6	3221.7	3197.6	3217.7	3255.2	3286.0	3295.4
22.5°	3807.3	3810.0	3733.6	3592.9	3428.1	3319.5	3259.2	3255.2	3299.4	3334.3	3345.0
25°	4240.2	4229.5	4122.3	3921.3	3670.7	3491.1	3386.5	3362.4	3399.9	3438.8	3452.2
27.5°	4744.1	4705.2	4577.9	4335.4	4011.0	3748.4	3587.6	3548.7	3584.9	3629.1	3642.5
30°	5242.6	5202.4	5051.0	4785.7	4425.2	4092.8	3862.3	3799.3	3850.2	3913.2	3921.3
32.5°	5741.2	5741.2	5572.3	5262.7	4870.1	4504.2	4228.2	4153.1	4237.5	4313.9	4331.3
35°	6337.5	6340.2	6176.7	5804.2	5382.0	4994.7	4690.5	4635.6	4762.9	4816.5	4858.0
37.5°	7070.6	7085.3	6874.9	6424.6	5962.3	5554.9	5193.1	5118.0	5245.3	5391.4	5525.4
40°	7862.6	7881.4	7649.5	7094.7	6632.4	6206.2	5814.9	5679.5	5891.3	6170.0	6342.9
42.5°	8618.5	8714.9	8491.1	7920.2	7423.1	6982.1	6585.5	6388.5	6653.8	7074.6	7224.7
45°	9710.7	9780.4	9390.4	8873.1	8405.4	7912.2	7386.9	7179.1	7550.4	8081.1	8111.9
47.5°	10438.4	10386.1	10187.8	9866.1	9570.0	9109.0	8318.3	8090.4	8583.6	9208.1	9035.2
50°	10825.7	10841.8	10815.0	10833.7	10844.4	10555.0	9460.1	9147.8	9736.1	10490.6	10092.6
52.5°	11187.5	11080.3	11168.8	11608.3	12139.0	12031.8	10702.4	10376.7	10971.8	11913.9	11210.3
55°	11179.5	11016.0	11304.1	12080.0	13231.2	13354.5	12097.5	11722.2	12278.4	13440.3	12395.0
57.5°	10784.1	10792.2	11235.8	12251.6	13992.4	14598.2	13716.4	13153.5	13664.1	14986.8	13476.5
60°	10240.0	10313.7	10953.0	12223.4	14602.2	15618.0	15702.5	14696.0	15021.7	16392.6	14371.7
62.5°	9362.2	9440.0	10321.8	11931.3	14509.7	16600.4	17498.2	16446.2	16440.9	17245.0	14634.4
65°	7977.9	7955.1	8881.1	10839.1	13733.8	17326.7	19282.0	17959.3	17510.3	17258.4	14106.3
67.5°	5883.2	5781.4	6576.1	8255.3	11415.3	16513.2	20331.3	18747.3	17874.8	16123.3	12492.8
70°	3052.8	2951.0	3594.3	4820.5	7507.5	12888.2	19169.4	18339.9	17069.4	13515.3	9787.1
72.5°	1305.3	1287.9	1549.2	2114.7	3631.8	7433.8	15031.0	15874.0	14646.4	10069.8	6728.9
75°	877.8	872.4	970.3	1152.5	1633.6	3016.7	9406.5	11267.9	10715.8	6243.7	3784.6
77.5°	688.8	682.1	739.8	828.2	1058.7	1190.0	4174.5	6049.4	5599.1	2717.8	1656.4
80°	538.7	533.4	569.6	617.8	761.2	750.5	1373.6	2406.9	1862.8	1041.3	805.4
82.5°	424.8	424.8	454.3	455.6	540.1	511.9	717.0	1060.1	930.1	607.1	493.2
85°	388.6	388.6	419.5	340.4	352.5	323.0	444.9	628.5	589.7	249.3	214.4
87.5°	195.7	190.3	352.5	301.5	191.6	171.5	217.1	304.2	327.0	138.0	107.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4	3421.4
2.5°	3405.3	3404.0	3406.6	3408.0	3418.7	3433.4	3440.1	3449.5	3454.9	3452.2
5°	3365.1	3367.8	3378.5	3386.5	3405.3	3429.4	3442.8	3453.5	3462.9	3458.9
7.5°	3331.6	3338.3	3354.4	3361.1	3371.8	3378.5	3377.2	3381.2	3389.2	3379.8
10°	3312.8	3320.9	3332.9	3323.6	3298.1	3261.9	3228.4	3211.0	3216.3	3209.6
12.5°	3294.1	3304.8	3295.4	3251.2	3180.2	3133.3	3107.8	3110.5	3122.5	3125.2
15°	3283.4	3287.4	3247.2	3164.1	3091.7	3085.0	3098.4	3095.7	3097.1	3097.1
17.5°	3283.4	3272.6	3197.6	3114.5	3083.7	3071.6	3030.1	2977.8	2955.0	2947.0
20°	3300.8	3272.6	3181.5	3126.6	3059.5	2956.4	2846.5	2750.0	2707.1	2695.0
22.5°	3353.0	3304.8	3227.1	3131.9	2941.6	2768.7	2594.5	2479.3	2401.5	2388.1
25°	3458.9	3405.3	3316.9	3060.9	2754.0	2507.4	2309.1	2180.4	2102.7	2092.0
27.5°	3643.8	3609.0	3365.1	2904.1	2504.7	2240.7	2057.1	1957.9	1900.3	1896.3
30°	3922.6	3905.2	3341.0	2672.2	2197.8	1982.1	1893.6	1836.0	1793.1	1791.8
32.5°	4367.5	4226.8	3261.9	2389.5	1917.7	1798.5	1762.3	1727.4	1693.9	1693.9
35°	4939.8	4486.8	3111.8	2086.6	1747.5	1696.6	1651.1	1596.1	1551.9	1549.2
37.5°	5612.5	4647.6	2842.4	1842.7	1667.1	1628.3	1561.3	1479.5	1401.8	1388.4
40°	6292.0	4695.9	2463.2	1692.6	1616.2	1559.9	1478.2	1381.7	1306.6	1302.6
42.5°	6915.1	4603.4	2061.1	1589.4	1565.3	1490.2	1404.5	1318.7	1259.7	1258.4
45°	7437.8	4363.5	1723.4	1491.6	1511.7	1427.3	1350.9	1281.2	1235.6	1226.2
47.5°	7929.6	4024.4	1486.2	1388.4	1458.1	1392.4	1328.1	1262.4	1218.2	1211.5
50°	8500.5	3658.6	1320.0	1287.9	1411.2	1380.3	1346.8	1278.5	1204.8	1196.7
52.5°	9192.0	3342.3	1190.0	1199.4	1375.0	1396.4	1395.1	1324.1	1195.4	1184.7
55°	9964.0	2991.2	1092.2	1127.1	1360.2	1425.9	1407.2	1366.9	1203.4	1187.4
57.5°	10723.8	2581.1	1023.9	1072.1	1338.8	1423.2	1349.5	1291.9	1222.2	1199.4
60°	11293.4	2030.3	971.6	1023.9	1291.9	1379.0	1286.5	1210.1	1218.2	1200.8
62.5°	11330.9	1569.3	908.6	982.3	1220.9	1334.8	1245.0	1174.0	1235.6	1219.5
65°	10664.9	1186.0	848.3	932.7	1144.5	1306.6	1204.8	1153.9	1271.8	1254.4
67.5°	8979.0	954.2	797.4	881.8	1068.1	1247.7	1168.6	1135.1	1304.0	1273.1
70°	6482.3	813.5	747.8	820.2	999.7	1180.7	1136.4	1101.6	1216.8	1168.6
72.5°	3990.9	704.9	691.5	738.4	947.5	1111.0	1088.2	1038.6	1096.2	1057.4
75°	1992.8	611.1	628.5	658.0	873.8	1031.9	1007.8	958.2	966.2	958.2
77.5°	954.2	522.7	554.8	577.6	778.6	942.1	916.7	865.7	856.4	857.7
80°	604.4	436.9	467.7	483.8	695.5	837.6	812.1	761.2	868.4	805.4
82.5°	377.9	355.1	363.2	392.7	605.7	729.0	695.5	650.0	782.6	619.1
85°	209.1	247.9	258.6	284.1	466.4	609.8	576.3	518.6	465.0	457.0
87.5°	124.6	147.4	151.4	170.2	313.6	440.9	390.0	369.9	306.9	305.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)