

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: P191443

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191443
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-05-LED-E1-T3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24592.8 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

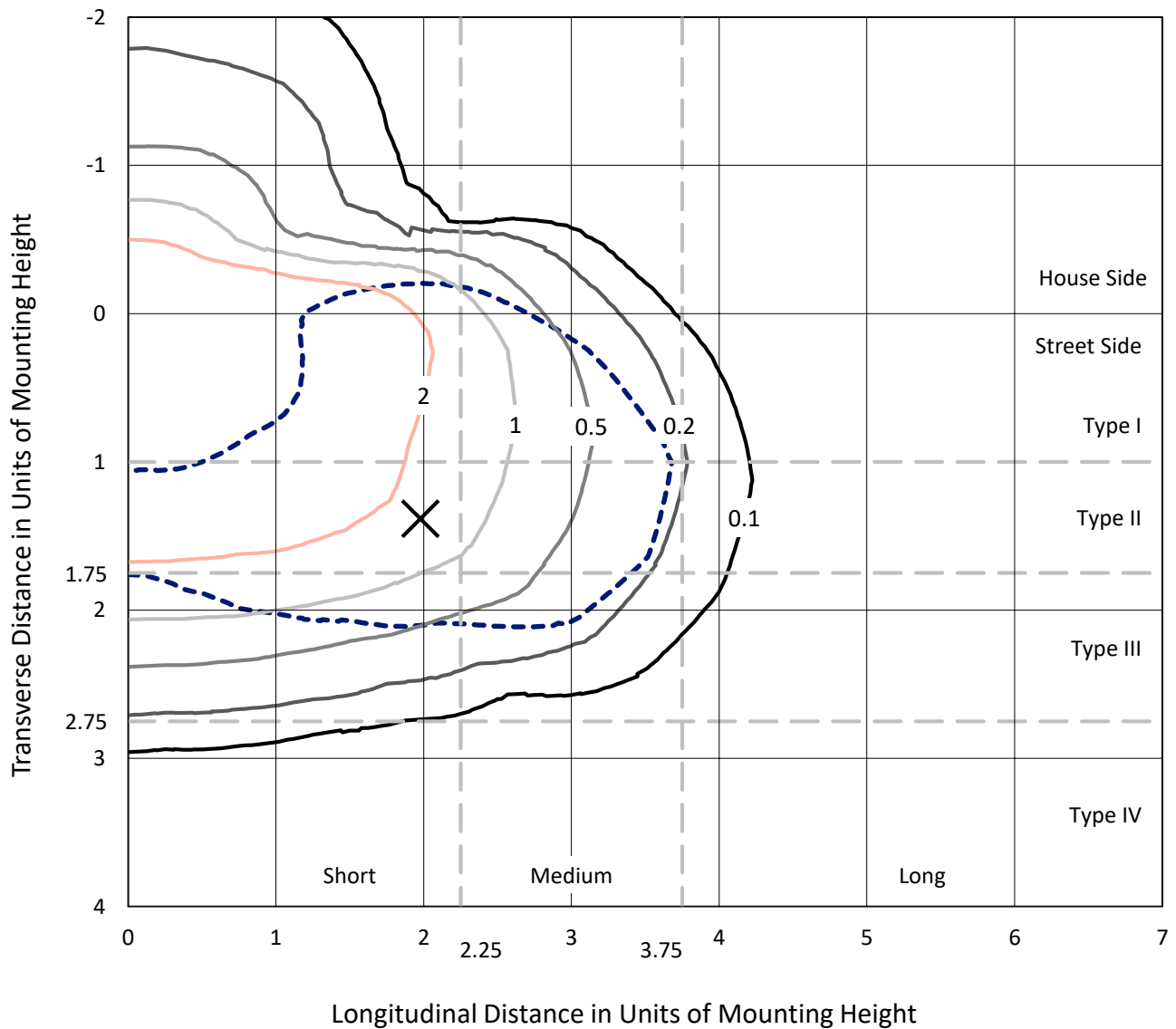
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

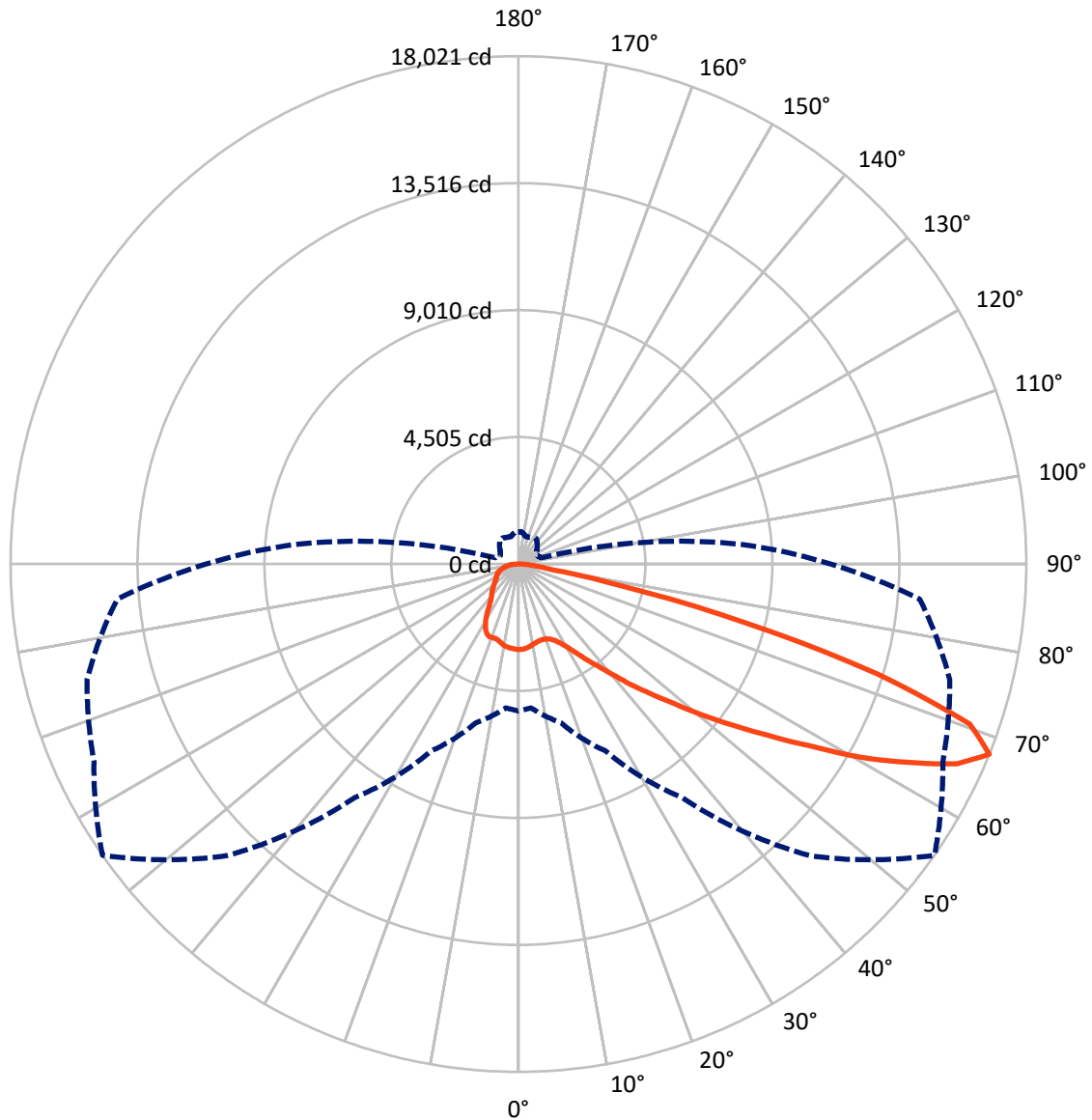
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	5312.6	0.0	5312.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19280.2	0.0	19280.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	24592.8	0.0	24592.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	1.2
10°-20°	801.7	3.3
20°-30°	1342.9	5.5
30°-40°	2208.3	9.0
40°-50°	3717.2	15.1
50°-60°	5850.6	23.8
60°-70°	6982.1	28.4
70°-80°	2998.2	12.2
80°-90°	408.8	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°	24592.8	100.0
0°-180°	24592.8	100.0

Coefficient of Utilization



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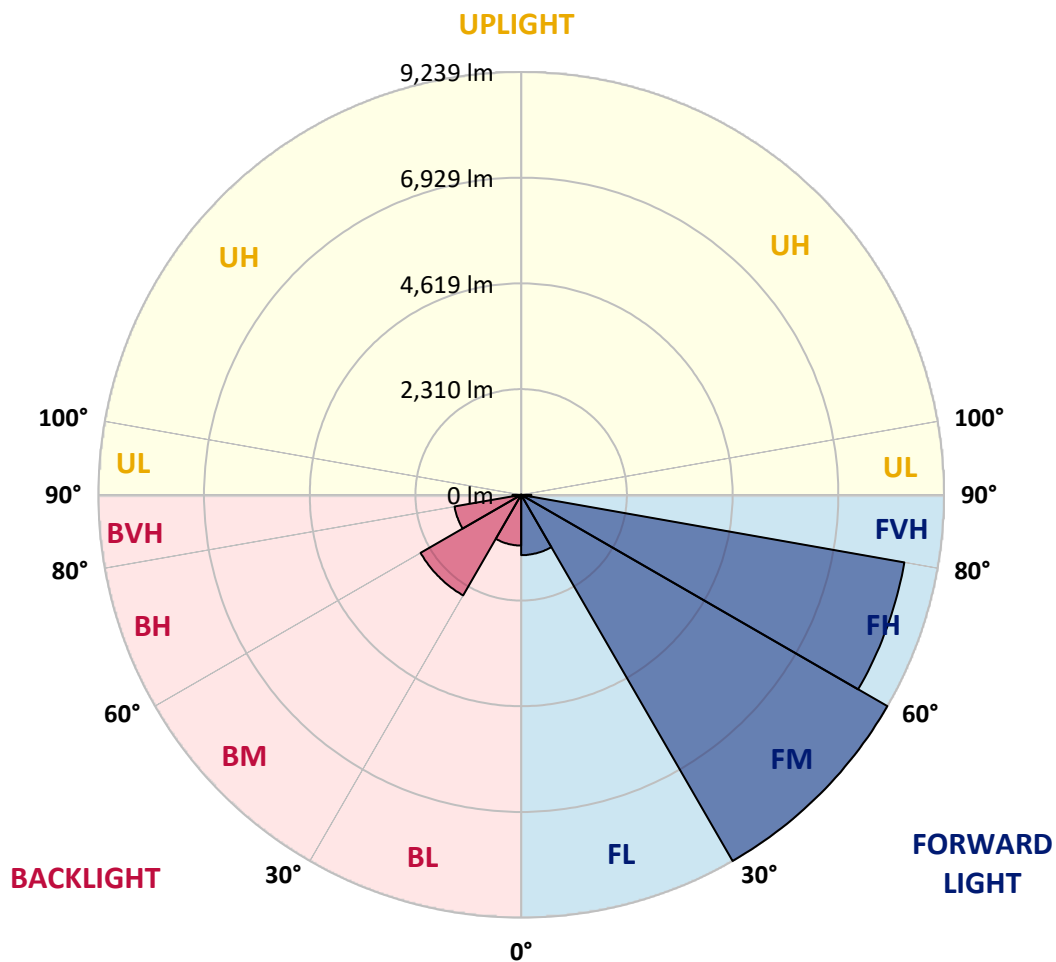
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1318.2	5.4			
FM	(30°-60°)	9238.9	37.6			
FH	(60°-80°)	8501.8	34.6			G4/12000
FVH	(80°-90°)	221.3	0.9			G2/225
BL	(0°-30°)	1109.4	4.5	B3/2500		
BM	(30°-60°)	2537.2	10.3	B3/5000		
BH	(60°-80°)	1478.5	6.0	B3/2500		G3/2500
BVH	(80°-90°)	187.5	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°	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5
2.5°	3006.5	3007.6	3010.0	3019.4	3027.8	3025.5	3026.6	3021.9	3020.7	3013.5	3020.7
5°	2968.4	2972.0	2973.2	2988.7	2998.1	3000.5	2996.9	2991.0	2983.8	2976.7	2980.3
7.5°	2881.7	2891.2	2892.4	2913.8	2929.2	2949.4	2950.6	2951.8	2948.2	2943.4	2950.6
10°	2827.0	2829.5	2828.3	2843.7	2855.6	2878.2	2891.2	2913.8	2923.3	2925.6	2930.4
12.5°	2823.4	2821.1	2817.5	2817.5	2814.0	2823.4	2847.3	2879.3	2901.9	2909.1	2915.0
15°	2861.5	2860.3	2848.4	2830.6	2808.1	2800.9	2821.1	2856.8	2886.5	2901.9	2907.8
17.5°	2947.0	2939.9	2920.9	2880.5	2831.8	2812.8	2815.2	2844.8	2879.3	2899.6	2905.5
20°	3103.8	3103.8	3063.4	2987.4	2900.7	2855.6	2834.2	2852.0	2885.2	2912.5	2920.9
22.5°	3374.6	3377.1	3309.3	3184.7	3038.5	2942.3	2888.8	2885.2	2924.4	2955.3	2964.8
25°	3758.3	3748.8	3653.8	3475.6	3253.5	3094.3	3001.6	2980.3	3013.5	3048.0	3059.9
27.5°	4204.9	4170.5	4057.6	3842.6	3555.2	3322.3	3179.8	3145.4	3177.5	3216.7	3228.5
30°	4646.9	4611.2	4476.9	4241.8	3922.2	3627.7	3423.3	3367.6	3412.7	3468.5	3475.6
32.5°	5088.7	5088.7	4939.0	4664.7	4316.6	3992.4	3747.7	3681.1	3756.0	3823.7	3839.1
35°	5617.3	5619.7	5474.7	5144.5	4770.3	4427.1	4157.5	4108.8	4221.6	4269.1	4305.9
37.5°	6267.0	6280.1	6093.6	5694.5	5284.7	4923.6	4602.9	4536.4	4649.2	4778.7	4897.5
40°	6969.1	6985.7	6780.2	6288.4	5878.6	5500.9	5154.0	5034.0	5221.8	5468.8	5622.0
42.5°	7639.0	7724.5	7526.2	7020.1	6579.4	6188.6	5837.1	5662.4	5897.6	6270.6	6403.7
45°	8607.1	8668.9	8323.2	7864.7	7450.2	7013.0	6547.4	6363.3	6692.2	7162.7	7190.0
47.5°	9252.1	9205.7	9030.0	8744.9	8482.4	8073.7	7372.9	7171.0	7608.1	8161.6	8008.4
50°	9595.4	9609.6	9585.9	9602.5	9612.0	9355.4	8384.9	8108.2	8629.6	9298.4	8945.6
52.5°	9916.1	9821.0	9899.5	10289.0	10759.5	10664.5	9486.1	9197.5	9724.9	10559.9	9936.3
55°	9908.9	9764.1	10019.4	10707.2	11727.5	11836.9	10722.7	10390.0	10883.0	11912.9	10986.3
57.5°	9558.6	9565.7	9958.8	10859.2	12402.3	12939.1	12157.6	11658.7	12111.2	13283.6	11944.9
60°	9076.3	9141.6	9708.2	10834.3	12942.7	13843.1	13918.0	13025.8	13314.5	14529.7	12738.4
62.5°	8298.3	8367.1	9148.8	10575.4	12860.7	14713.8	15509.7	14577.2	14572.4	15285.1	12971.2
65°	7071.2	7051.0	7871.8	9607.2	12173.0	15357.6	17090.6	15918.2	15520.3	15297.0	12503.2
67.5°	5214.6	5124.4	5828.8	7317.1	10118.0	14636.6	18020.7	16616.7	15843.5	14290.9	11073.0
70°	2705.9	2615.6	3185.8	4272.7	6654.3	11423.5	16990.9	16255.6	15129.5	11979.4	8674.8
72.5°	1157.0	1141.5	1373.1	1874.5	3219.0	6588.9	13322.8	14070.0	12981.9	8925.5	5964.1
75°	778.1	773.2	860.0	1021.5	1448.0	2673.8	8337.5	9987.4	9498.0	5534.2	3354.5
77.5°	610.6	604.6	655.7	734.1	938.4	1054.8	3700.1	5361.9	4962.8	2408.9	1468.1
80°	477.5	472.8	504.8	547.6	674.7	665.2	1217.5	2133.4	1651.1	922.9	713.9
82.5°	376.5	376.5	402.6	403.9	478.7	453.8	635.5	939.6	824.4	538.1	437.1
85°	344.4	344.4	371.8	301.7	312.4	286.2	394.3	557.1	522.6	221.0	190.1
87.5°	173.4	168.7	312.4	267.3	169.9	152.0	192.4	269.6	289.8	122.3	95.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5	3032.5
2.5°	3018.3	3017.1	3019.4	3020.7	3030.2	3043.3	3049.2	3057.5	3062.2	3059.9
5°	2982.6	2985.1	2994.6	3001.6	3018.3	3039.7	3051.6	3061.1	3069.4	3065.8
7.5°	2953.0	2958.9	2973.2	2979.1	2988.7	2994.6	2993.4	2996.9	3004.0	2995.7
10°	2936.4	2943.4	2954.2	2945.9	2923.3	2891.2	2861.5	2846.1	2850.9	2844.8
12.5°	2919.7	2929.2	2920.9	2881.7	2818.7	2777.2	2754.6	2757.0	2767.7	2770.0
15°	2910.2	2913.8	2878.2	2804.5	2740.4	2734.4	2746.3	2743.9	2745.1	2745.1
17.5°	2910.2	2900.7	2834.2	2760.5	2733.2	2722.5	2685.8	2639.4	2619.2	2612.1
20°	2925.6	2900.7	2820.0	2771.3	2711.8	2620.4	2523.0	2437.5	2399.4	2388.8
22.5°	2972.0	2929.2	2860.3	2776.0	2607.3	2454.1	2299.7	2197.5	2128.7	2116.7
25°	3065.8	3018.3	2939.9	2713.1	2441.0	2222.5	2046.6	1932.7	1863.7	1854.2
27.5°	3229.8	3198.9	2982.6	2574.1	2220.1	1986.1	1823.3	1735.4	1684.4	1680.8
30°	3476.8	3461.4	2961.2	2368.5	1948.1	1756.8	1678.5	1627.3	1589.4	1588.1
32.5°	3871.2	3746.5	2891.2	2117.9	1699.8	1594.1	1562.0	1531.2	1501.4	1501.4
35°	4378.3	3976.9	2758.2	1849.5	1549.0	1503.8	1463.4	1414.7	1375.6	1373.1
37.5°	4974.7	4119.4	2519.4	1633.2	1477.7	1443.2	1383.8	1311.4	1242.5	1230.6
40°	5576.9	4162.2	2183.3	1500.3	1432.5	1382.6	1310.2	1224.7	1158.2	1154.6
42.5°	6129.2	4080.2	1826.9	1408.8	1387.4	1320.8	1244.8	1168.8	1116.6	1115.4
45°	6592.5	3867.6	1527.6	1322.1	1339.9	1265.1	1197.4	1135.6	1095.2	1086.9
47.5°	7028.5	3567.1	1317.4	1230.6	1292.4	1234.2	1177.1	1118.9	1079.7	1073.8
50°	7534.4	3242.8	1170.1	1141.5	1250.8	1223.4	1193.8	1133.2	1067.9	1060.7
52.5°	8147.4	2962.5	1054.8	1063.2	1218.7	1237.8	1236.5	1173.6	1059.6	1050.1
55°	8831.5	2651.3	968.1	999.0	1205.6	1263.9	1247.2	1211.6	1066.6	1052.4
57.5°	9505.1	2287.8	907.5	950.3	1186.6	1261.5	1196.1	1145.1	1083.3	1063.2
60°	10009.9	1799.6	861.2	907.5	1145.1	1222.3	1140.3	1072.7	1079.7	1064.3
62.5°	10043.2	1391.0	805.4	870.7	1082.1	1183.0	1103.5	1040.5	1095.2	1081.0
65°	9452.8	1051.3	751.9	826.7	1014.5	1158.2	1067.9	1022.7	1127.3	1111.8
67.5°	7958.6	845.8	706.8	781.6	946.7	1105.9	1035.8	1006.1	1155.7	1128.4
70°	5745.6	721.0	662.8	726.9	886.1	1046.5	1007.3	976.4	1078.6	1035.8
72.5°	3537.4	624.8	613.0	654.5	839.8	984.7	964.5	920.6	971.7	937.2
75°	1766.3	541.7	557.1	583.2	774.5	914.6	893.2	849.4	856.4	849.4
77.5°	845.8	463.3	491.7	512.0	690.2	835.0	812.5	767.3	759.0	760.3
80°	535.7	387.2	414.6	428.8	616.5	742.4	719.9	674.7	769.8	713.9
82.5°	335.0	314.8	321.9	348.0	536.9	646.2	616.5	576.1	693.7	548.8
85°	185.3	219.7	229.2	251.9	413.4	540.4	510.8	459.7	412.1	405.1
87.5°	110.5	130.6	134.2	150.9	277.9	390.8	345.7	327.9	272.0	270.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)