

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: P193313

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28572.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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



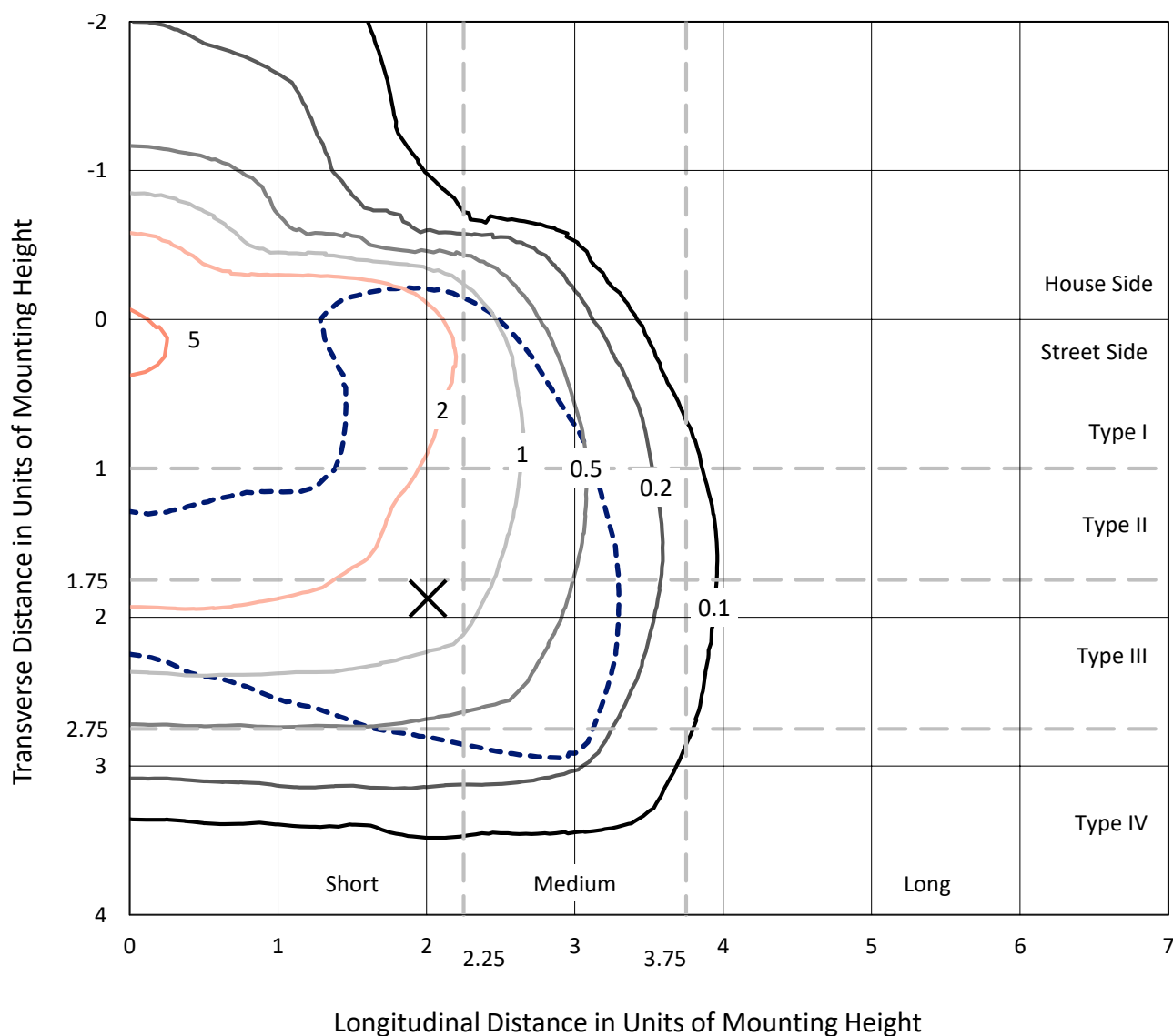
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

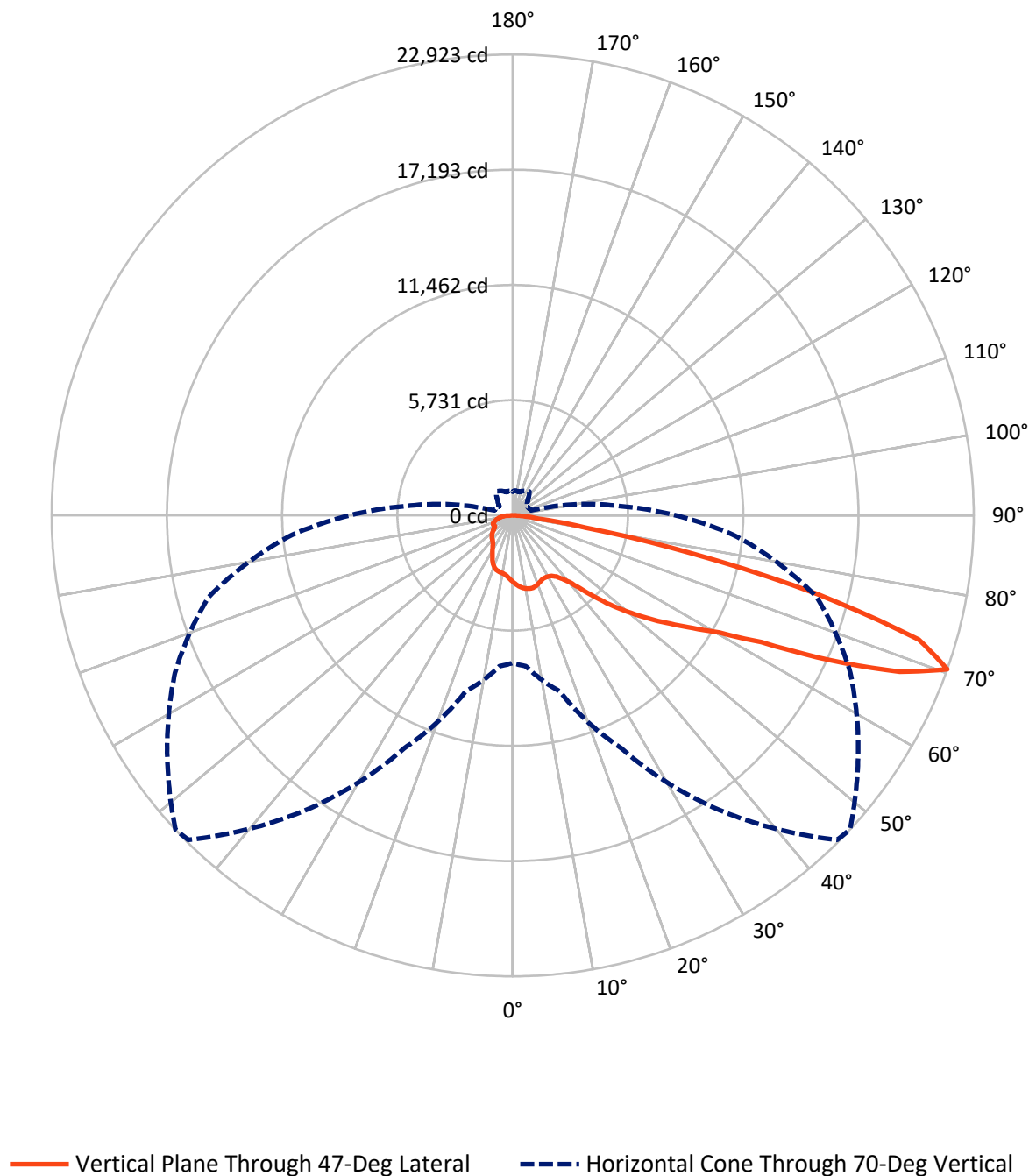


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5960.8	0.0	5960.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	22611.6	0.0	22611.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	28572.4	0.0	28572.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	1.1
10°-20°	931.9	3.3
20°-30°	1376.2	4.8
30°-40°	2000.3	7.0
40°-50°	3599.8	12.6
50°-60°	6236.3	21.8
60°-70°	8901.1	31.2
70°-80°	4569.3	16.0
80°-90°	639.7	2.2
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°	28572.4	100.0
0°-180°	28572.4	100.0

Coefficient of Utilization



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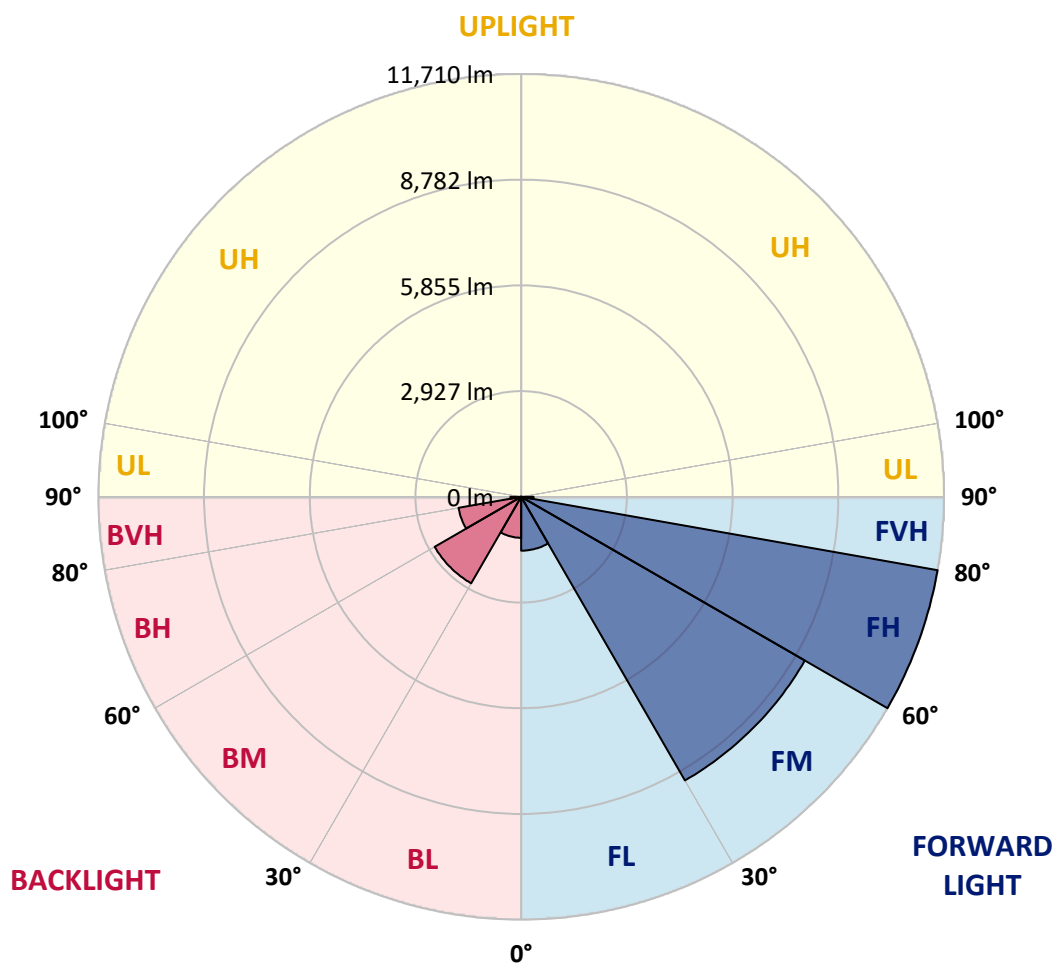
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1490.8	5.2			
FM	(30°-60°)	9069.7	31.7			
FH	(60°-80°)	11709.7	41.0			G4/12000
FVH	(80°-90°)	341.4	1.2			G3/500
BL	(0°-30°)	1135.0	4.0	B3/2500		
BM	(30°-60°)	2766.8	9.7	B3/5000		
BH	(60°-80°)	1760.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	298.4	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3
2.5°	3509.9	3503.0	3500.1	3494.6	3487.7	3452.9	3445.9	3420.9	3386.2	3350.0	3312.5
5°	3740.6	3739.3	3724.0	3696.1	3651.7	3575.2	3557.2	3496.0	3414.1	3334.7	3255.5
7.5°	3943.6	3931.0	3901.8	3846.3	3768.5	3664.2	3639.2	3554.4	3441.7	3333.4	3226.3
10°	4092.3	4085.4	4021.4	3945.1	3843.5	3728.2	3699.0	3604.5	3480.7	3343.2	3209.6
12.5°	4177.1	4163.3	4089.6	3997.8	3876.8	3764.3	3735.1	3639.2	3500.1	3343.2	3186.0
15°	4171.5	4161.8	4088.2	3988.1	3865.7	3767.0	3740.6	3644.8	3496.0	3329.2	3155.4
17.5°	4060.4	4064.6	4001.9	3903.3	3803.2	3728.2	3704.6	3615.5	3468.2	3301.4	3119.3
20°	3865.7	3885.3	3843.5	3755.9	3700.3	3648.9	3633.6	3558.6	3425.1	3261.1	3080.3
22.5°	3671.1	3689.2	3672.5	3598.9	3590.5	3559.8	3551.6	3497.4	3387.6	3236.0	3056.7
25°	3528.0	3544.7	3541.8	3477.9	3503.0	3501.5	3494.6	3468.2	3379.3	3236.0	3060.9
27.5°	3489.0	3494.6	3489.0	3430.6	3465.3	3493.2	3487.7	3483.5	3404.3	3276.3	3113.8
30°	3622.5	3614.2	3571.0	3452.9	3484.9	3523.8	3518.2	3521.0	3479.4	3382.0	3231.9
32.5°	4154.9	4117.3	3981.1	3648.9	3564.1	3584.9	3587.7	3633.6	3640.5	3544.7	3415.3
35°	4951.4	4909.7	4733.1	4174.4	3810.2	3737.9	3737.9	3807.3	3849.1	3778.1	3700.3
37.5°	5795.1	5749.3	5654.7	4902.7	4327.2	4003.4	3996.3	4045.1	4104.9	4121.5	4141.0
40°	6754.3	6705.7	6732.0	5720.0	5048.7	4463.5	4364.8	4330.1	4491.3	4598.2	4754.0
42.5°	7803.8	7781.6	7791.3	6630.6	5870.2	5151.6	5011.1	4831.9	5026.5	5216.9	5543.6
45°	8775.4	8795.0	8785.2	7605.0	6784.9	5991.1	5842.4	5494.8	5685.3	6012.0	6544.4
47.5°	9626.2	9545.6	9670.6	8669.8	7809.3	6930.9	6747.3	6281.7	6474.9	6878.0	7778.7
50°	10659.0	10647.9	10464.3	10090.4	9047.9	7874.7	7634.2	7094.9	7395.1	7955.2	9334.2
52.5°	11744.6	11543.0	11374.9	11195.5	10361.5	8842.2	8547.5	7905.2	8476.6	9181.3	11230.3
55°	11967.0	11876.7	12085.1	12386.8	11627.8	9847.2	9503.8	8921.3	9694.2	10582.6	13416.8
57.5°	12442.5	12441.1	12872.0	13409.9	12931.7	10913.4	10567.2	10148.8	11063.5	12188.0	15738.2
60°	12763.5	12853.8	13654.5	14698.4	14211.9	12144.9	11826.7	11565.3	12620.3	13982.6	17901.1
62.5°	12931.7	13054.1	14146.6	15221.1	16021.8	14195.3	13876.9	13500.2	14680.4	15950.9	19166.1
65°	12232.5	12473.0	14070.2	15672.9	17606.5	17518.8	17375.7	16714.1	17256.2	17506.4	18708.8
67.5°	10297.5	10543.6	12403.4	15251.7	18738.0	20724.4	20755.0	19624.8	18840.8	17639.8	15729.8
70°	7336.8	7529.9	9068.7	12787.1	17876.1	22819.3	22923.4	20966.2	18525.4	15643.7	10989.9
72.5°	3483.5	3601.6	5058.3	8322.3	14185.5	20907.9	21109.4	19253.6	15752.1	11581.9	5995.3
75°	1280.2	1316.3	1709.8	3540.4	8227.8	15418.5	15656.2	13801.8	10442.1	5765.9	2283.8
77.5°	767.3	790.9	959.2	1494.3	3236.0	8813.0	9164.6	7506.3	4563.5	2146.3	1123.1
80°	536.6	553.3	688.2	929.9	1529.1	3358.4	3671.1	3063.7	1818.2	1358.1	817.4
82.5°	362.8	371.2	483.7	628.4	1016.1	1199.6	1294.1	1362.3	1226.0	1010.5	518.6
85°	237.7	246.1	328.1	414.2	646.4	619.9	633.8	802.1	895.2	686.7	287.8
87.5°	136.2	141.8	197.4	221.0	317.0	262.8	265.5	422.7	572.7	462.9	175.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3
2.5°	3302.8	3284.7	3244.4	3219.4	3195.8	3190.2	3180.4	3179.0	3177.7	3177.7	3173.6
5°	3229.1	3198.6	3136.0	3101.3	3072.1	3069.2	3067.9	3074.8	3077.7	3080.3	3076.2
7.5°	3181.8	3140.1	3062.3	3012.3	2977.6	2969.1	2983.1	3015.0	3035.9	3044.2	3040.0
10°	3152.6	3101.3	3010.8	2956.7	2927.5	2923.3	2941.4	2978.9	3022.0	3038.7	3037.3
12.5°	3119.3	3060.9	2965.0	2908.1	2891.3	2899.6	2923.3	2958.0	3002.6	3028.8	3030.3
15°	3085.9	3017.8	2919.1	2869.0	2862.1	2873.3	2895.5	2921.9	2956.7	2983.1	2985.8
17.5°	3045.6	2974.7	2876.0	2824.6	2819.0	2824.6	2826.0	2839.8	2862.1	2887.1	2894.1
20°	3002.6	2930.3	2827.4	2776.0	2750.9	2728.6	2703.6	2706.5	2713.4	2738.4	2743.9
22.5°	2972.0	2899.6	2789.8	2718.9	2652.3	2585.5	2535.5	2528.5	2531.3	2552.2	2559.1
25°	2974.7	2898.3	2780.1	2657.8	2511.9	2404.8	2338.0	2327.0	2325.6	2340.9	2350.6
27.5°	3028.8	2952.5	2816.2	2595.2	2358.9	2200.5	2129.6	2121.3	2110.2	2114.2	2125.4
30°	3149.8	3078.9	2903.8	2531.3	2193.5	2000.3	1926.6	1918.3	1903.0	1896.0	1904.4
32.5°	3347.2	3288.9	3031.7	2470.2	2028.1	1829.3	1754.2	1736.1	1726.4	1718.1	1725.1
35°	3675.3	3650.3	3202.7	2403.3	1882.1	1697.3	1629.2	1601.3	1587.4	1602.8	1613.9
37.5°	4189.6	4203.5	3426.5	2299.2	1769.6	1609.7	1552.7	1520.7	1499.9	1512.3	1524.9
40°	4918.0	4927.7	3674.0	2151.9	1672.2	1558.2	1497.1	1467.9	1438.7	1416.4	1415.1
42.5°	5874.5	5775.7	3917.2	1991.9	1559.6	1526.3	1458.2	1422.0	1377.5	1316.3	1303.9
45°	7008.7	6662.5	4102.0	1808.5	1433.2	1487.3	1415.1	1365.0	1295.5	1228.8	1221.8
47.5°	8315.2	7614.8	4192.4	1618.0	1315.1	1430.4	1362.3	1283.0	1195.4	1162.1	1157.9
50°	9911.1	8744.9	4235.6	1433.2	1212.1	1355.3	1285.8	1192.7	1119.1	1112.0	1107.9
52.5°	11727.9	10104.3	4249.4	1281.6	1127.3	1258.0	1223.2	1132.9	1074.6	1080.0	1080.0
55°	13629.5	11508.3	4060.4	1171.8	1049.6	1157.9	1181.5	1109.3	1060.6	1082.9	1091.2
57.5°	15375.4	12752.4	3465.3	1087.0	975.8	1081.4	1166.3	1131.5	1098.2	1188.5	1194.1
60°	16715.5	13487.7	2588.3	1010.5	921.6	1055.0	1206.5	1216.3	1224.7	1440.1	1469.3
62.5°	16996.3	13243.1	1779.3	950.8	896.6	1077.3	1280.2	1281.6	1271.9	1422.0	1440.1
65°	15707.6	11695.9	1294.1	917.4	875.7	1117.6	1342.8	1313.7	1249.7	1363.7	1330.2
67.5°	12474.3	8811.5	1077.3	892.4	845.1	1114.8	1409.6	1342.8	1237.2	1335.8	1281.6
70°	8097.1	5328.1	959.2	871.6	809.1	1062.0	1448.4	1340.1	1201.0	1242.8	1178.8
72.5°	3950.6	2382.5	879.9	841.0	771.5	988.4	1447.0	1315.1	1163.5	1160.7	1125.9
75°	1545.7	1091.2	807.7	795.1	707.6	904.8	1408.2	1278.9	1119.1	1074.6	1062.0
77.5°	904.8	778.5	715.8	727.0	631.1	821.5	1351.1	1216.3	1057.8	1004.9	991.1
80°	658.9	582.5	610.2	628.4	539.3	738.1	1274.7	1139.8	989.7	1016.1	996.7
82.5°	422.7	375.3	494.8	513.0	448.9	653.4	1191.3	1059.3	893.8	811.8	792.3
85°	215.5	237.7	368.3	390.6	346.2	536.6	1089.8	952.2	785.3	675.6	686.7
87.5°	121.0	162.7	234.9	262.8	244.6	412.9	884.1	785.3	640.8	521.2	458.7
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)