

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: P193322

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193322
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-04-LED-E1-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25296.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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



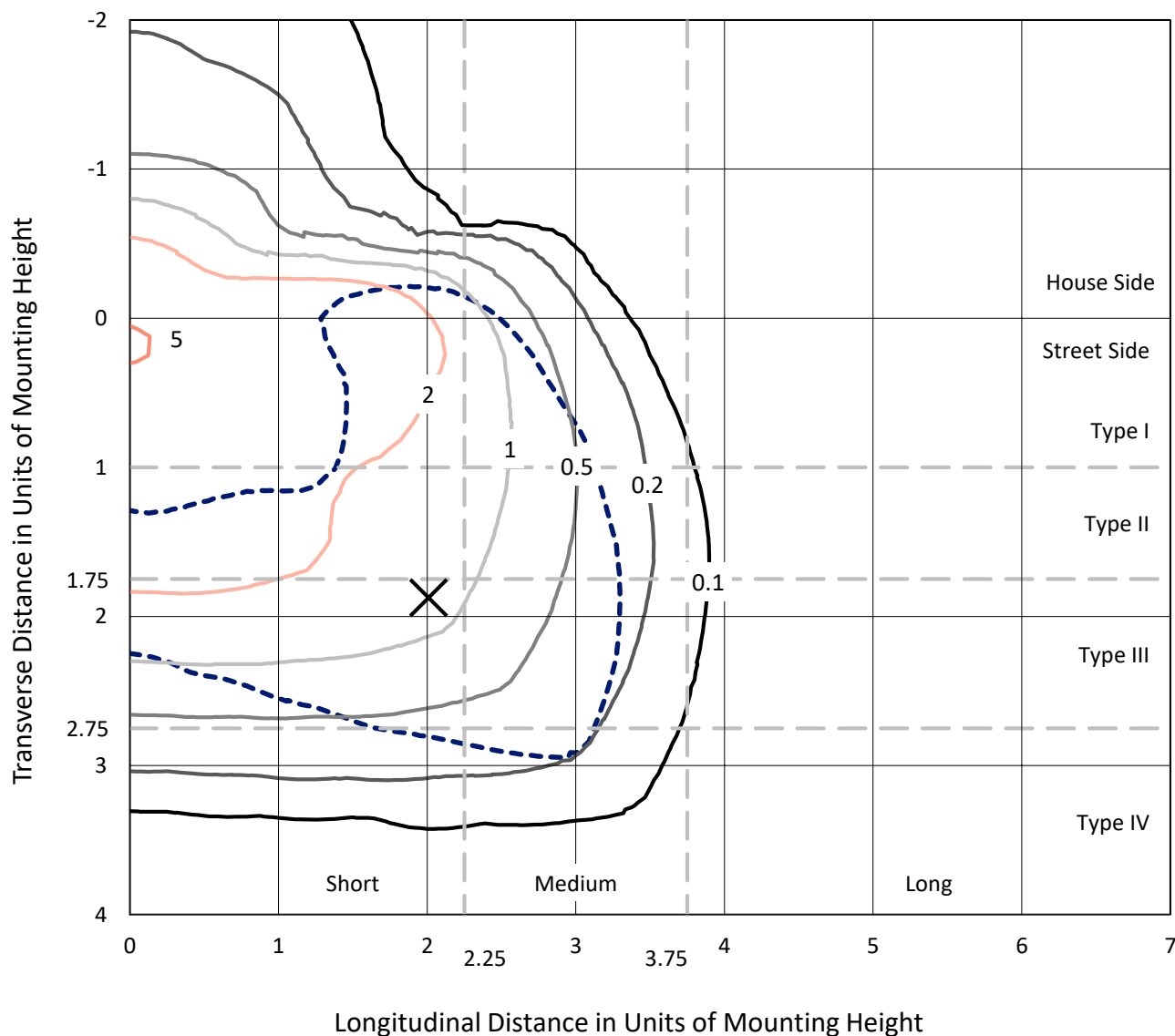
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

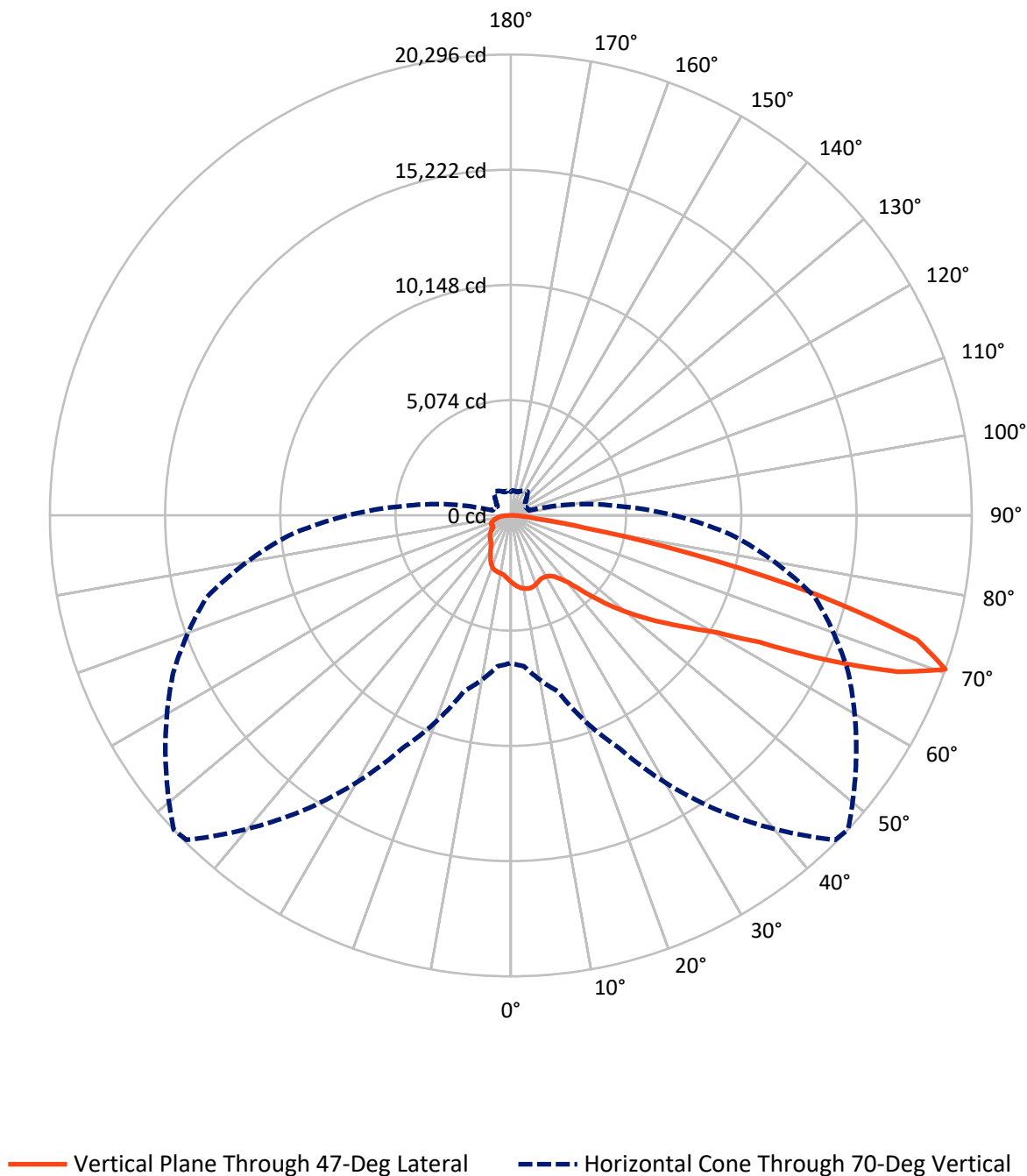


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5277.4	0.0	5277.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	20019.4	0.0	20019.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	25296.8	0.0	25296.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	1.1
10°-20°	825.1	3.3
20°-30°	1218.4	4.8
30°-40°	1771.0	7.0
40°-50°	3187.2	12.6
50°-60°	5521.4	21.8
60°-70°	7880.6	31.2
70°-80°	4045.5	16.0
80°-90°	566.4	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°	25296.8	100.0
0°-180°	25296.8	100.0

Coefficient of Utilization



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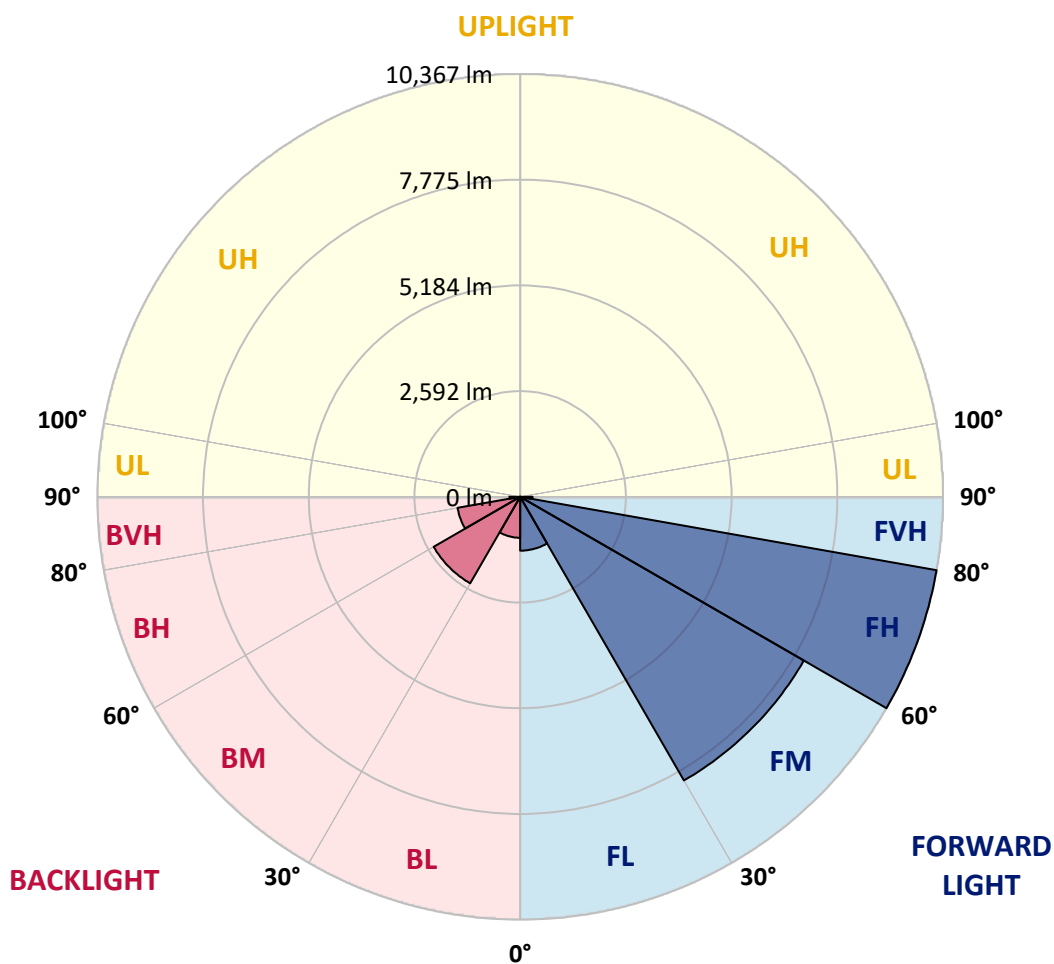
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.9	5.2			
FM	(30°-60°)	8029.9	31.7			
FH	(60°-80°)	10367.3	41.0			G4/12000
FVH	(80°-90°)	302.2	1.2			G3/500
BL	(0°-30°)	1004.8	4.0	B3/2500		
BM	(30°-60°)	2449.6	9.7	B2/2500		
BH	(60°-80°)	1558.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	264.2	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°	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2
2.5°	3107.6	3101.4	3098.9	3094.0	3087.7	3057.1	3050.9	3028.7	2998.0	2966.0	2932.7
5°	3311.7	3310.5	3297.0	3272.5	3233.1	3165.3	3149.4	3095.2	3022.5	2952.4	2882.3
7.5°	3491.5	3480.5	3454.6	3405.4	3336.4	3244.1	3221.9	3146.8	3047.2	2951.2	2856.5
10°	3623.1	3617.0	3560.4	3492.7	3402.9	3300.7	3274.9	3191.3	3081.6	2959.9	2841.8
12.5°	3698.2	3686.0	3620.8	3539.5	3432.4	3332.7	3306.8	3221.9	3098.9	2959.9	2820.7
15°	3693.3	3684.7	3619.4	3530.8	3422.5	3335.1	3311.7	3226.9	3095.2	2947.5	2793.6
17.5°	3594.8	3598.6	3543.2	3455.8	3367.2	3300.7	3279.9	3201.1	3070.6	2922.9	2761.6
20°	3422.5	3439.8	3402.9	3325.3	3276.1	3230.6	3217.0	3150.6	3032.5	2887.1	2727.2
22.5°	3250.3	3266.3	3251.5	3186.3	3178.9	3151.8	3144.5	3096.4	2999.1	2865.1	2706.4
25°	3123.5	3138.3	3135.8	3079.3	3101.4	3100.1	3094.0	3070.6	2991.8	2865.1	2709.9
27.5°	3089.1	3094.0	3089.1	3037.4	3068.1	3092.7	3087.7	3084.2	3014.0	2900.8	2756.7
30°	3207.2	3199.7	3161.6	3057.1	3085.4	3119.8	3114.9	3117.3	3080.4	2994.2	2861.4
32.5°	3678.5	3645.3	3524.7	3230.6	3155.5	3174.0	3176.3	3217.0	3223.1	3138.3	3023.9
35°	4383.7	4346.9	4190.5	3695.8	3373.4	3309.4	3309.4	3370.8	3407.8	3345.1	3276.1
37.5°	5130.9	5090.2	5006.5	4340.7	3831.1	3544.4	3538.3	3581.3	3634.3	3649.0	3666.3
40°	5980.0	5936.9	5960.3	5064.2	4469.9	3951.8	3864.4	3833.6	3976.4	4071.1	4209.0
42.5°	6909.1	6889.5	6898.1	5870.4	5197.3	4560.9	4436.7	4277.9	4450.2	4618.8	4908.0
45°	7769.4	7786.6	7778.0	6733.1	6007.1	5304.3	5172.7	4865.0	5033.6	5322.8	5794.1
47.5°	8522.6	8451.2	8562.0	7675.9	6914.0	6136.2	5973.9	5561.6	5732.7	6089.4	6886.9
50°	9437.0	9427.1	9264.7	8933.7	8010.7	6972.0	6759.0	6281.6	6547.4	7043.3	8264.2
52.5°	10398.2	10219.7	10070.8	9912.0	9173.6	7828.4	7567.6	6998.9	7504.8	8128.8	9942.8
55°	10595.1	10515.1	10699.6	10966.8	10294.9	8718.3	8414.3	7898.6	8582.9	9369.3	11878.6
57.5°	11015.9	11014.8	11396.3	11872.5	11449.2	9662.3	9355.8	8985.4	9795.1	10790.8	13934.0
60°	11300.2	11380.2	12089.1	13013.5	12582.7	10752.6	10470.8	10239.4	11173.5	12379.6	15848.9
62.5°	11449.2	11557.5	12524.8	13476.1	14185.0	12567.9	12286.1	11952.5	12997.4	14122.3	16968.8
65°	10830.1	11043.1	12457.0	13876.2	15588.0	15510.5	15383.7	14798.0	15277.9	15499.4	16563.9
67.5°	9117.0	9334.9	10981.5	13503.3	16589.8	18348.5	18375.5	17375.0	16680.9	15617.5	13926.6
70°	6495.6	6666.7	8029.0	11321.2	15826.7	20203.1	20295.5	18562.6	16401.6	13850.2	9729.9
72.5°	3084.2	3188.7	4478.5	7368.2	12559.3	18510.9	18689.4	17046.4	13946.3	10254.2	5308.1
75°	1133.4	1165.5	1513.8	3134.5	7284.6	13651.0	13861.4	12219.5	9245.0	5104.9	2022.1
77.5°	679.4	700.3	849.2	1323.0	2865.1	7802.6	8114.0	6645.8	4040.4	1900.2	994.4
80°	475.1	489.8	609.2	823.4	1353.7	2973.4	3250.3	2712.5	1609.7	1202.4	723.7
82.5°	321.2	328.6	428.3	556.2	899.6	1062.1	1145.8	1206.1	1085.5	894.8	459.0
85°	210.5	217.9	290.4	366.8	572.3	548.9	561.1	710.0	792.5	607.9	254.8
87.5°	120.6	125.5	174.7	195.7	280.6	232.6	235.0	374.1	507.1	409.8	155.0
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°	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2
2.5°	2924.1	2908.2	2872.4	2850.2	2829.4	2824.5	2815.8	2814.6	2813.4	2813.4	2809.7
5°	2858.9	2831.9	2776.5	2745.6	2719.8	2717.4	2716.1	2722.3	2724.8	2727.2	2723.5
7.5°	2817.0	2780.1	2711.3	2666.9	2636.2	2628.8	2641.2	2669.4	2687.9	2695.2	2691.5
10°	2791.2	2745.6	2665.7	2617.8	2591.8	2588.2	2604.2	2637.4	2675.5	2690.3	2689.1
12.5°	2761.6	2709.9	2625.1	2574.5	2559.8	2567.3	2588.2	2619.0	2658.3	2681.7	2683.0
15°	2732.1	2671.8	2584.4	2540.2	2534.0	2543.9	2563.5	2586.9	2617.8	2641.2	2643.5
17.5°	2696.4	2633.7	2546.3	2500.7	2495.8	2500.7	2502.0	2514.3	2534.0	2556.1	2562.3
20°	2658.3	2594.4	2503.2	2457.7	2435.5	2415.8	2393.8	2396.2	2402.3	2424.5	2429.4
22.5°	2631.2	2567.3	2470.1	2407.2	2348.2	2289.1	2244.8	2238.6	2241.1	2259.6	2265.7
25°	2633.7	2566.0	2461.4	2353.1	2223.9	2129.1	2070.0	2060.2	2059.0	2072.5	2081.1
27.5°	2681.7	2614.0	2493.4	2297.7	2088.5	1948.2	1885.4	1878.0	1868.3	1871.9	1881.8
30°	2788.8	2726.0	2571.0	2241.1	1942.1	1771.0	1705.7	1698.3	1684.8	1678.7	1686.1
32.5°	2963.5	2911.9	2684.2	2187.0	1795.5	1619.5	1553.1	1537.2	1528.5	1521.1	1527.3
35°	3254.0	3231.8	2835.5	2127.9	1666.3	1502.7	1442.3	1417.7	1405.5	1419.0	1428.9
37.5°	3709.4	3721.6	3033.7	2035.6	1566.7	1425.2	1374.7	1346.4	1327.9	1339.0	1350.1
40°	4354.2	4362.8	3252.7	1905.2	1480.6	1379.6	1325.5	1299.6	1273.8	1254.1	1252.8
42.5°	5201.0	5113.6	3468.1	1763.6	1380.8	1351.3	1291.0	1259.0	1219.7	1165.5	1154.5
45°	6205.2	5898.7	3631.8	1601.0	1268.8	1316.9	1252.8	1208.5	1147.0	1087.9	1081.7
47.5°	7362.0	6741.8	3711.7	1432.5	1164.2	1266.5	1206.1	1136.0	1058.4	1028.9	1025.2
50°	8774.8	7742.3	3749.9	1268.8	1073.2	1199.8	1138.4	1056.0	990.8	984.5	980.8
52.5°	10383.5	8945.9	3762.3	1134.6	998.1	1113.8	1083.0	1003.0	951.3	956.2	956.2
55°	12067.0	10189.0	3594.8	1037.5	929.1	1025.2	1046.0	982.1	939.0	958.7	966.1
57.5°	13612.7	11290.5	3068.1	962.3	863.9	957.4	1032.6	1001.8	972.3	1052.2	1057.2
60°	14799.1	11941.5	2291.6	894.8	815.9	934.0	1068.2	1076.9	1084.3	1275.0	1300.8
62.5°	15047.7	11724.8	1575.3	841.9	793.8	953.9	1133.4	1134.6	1126.1	1259.0	1275.0
65°	13906.8	10355.0	1145.8	812.3	775.3	989.5	1188.8	1162.9	1106.4	1207.4	1177.9
67.5°	11044.3	7801.4	953.9	790.2	748.3	987.0	1248.0	1188.8	1095.4	1182.7	1134.6
70°	7168.8	4717.3	849.2	771.7	716.3	940.2	1282.3	1186.4	1063.3	1100.2	1043.7
72.5°	3497.6	2109.5	779.0	744.6	683.1	875.0	1281.2	1164.2	1030.1	1027.6	996.9
75°	1368.6	966.1	715.0	703.9	626.4	801.2	1246.6	1132.3	990.8	951.3	940.2
77.5°	801.2	689.2	633.8	643.6	558.8	727.3	1196.3	1076.9	936.6	889.8	877.5
80°	583.3	515.7	540.3	556.2	477.5	653.5	1128.5	1009.1	876.3	899.6	882.4
82.5°	374.1	332.2	438.1	454.1	397.4	578.4	1054.7	937.8	791.4	718.7	701.5
85°	190.7	210.5	326.1	345.8	306.5	475.1	964.9	843.1	695.3	598.0	607.9
87.5°	107.1	144.0	208.0	232.6	216.6	365.5	782.8	695.3	567.4	461.5	406.1
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)