

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: P194854

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T4FT-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23597 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 193
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

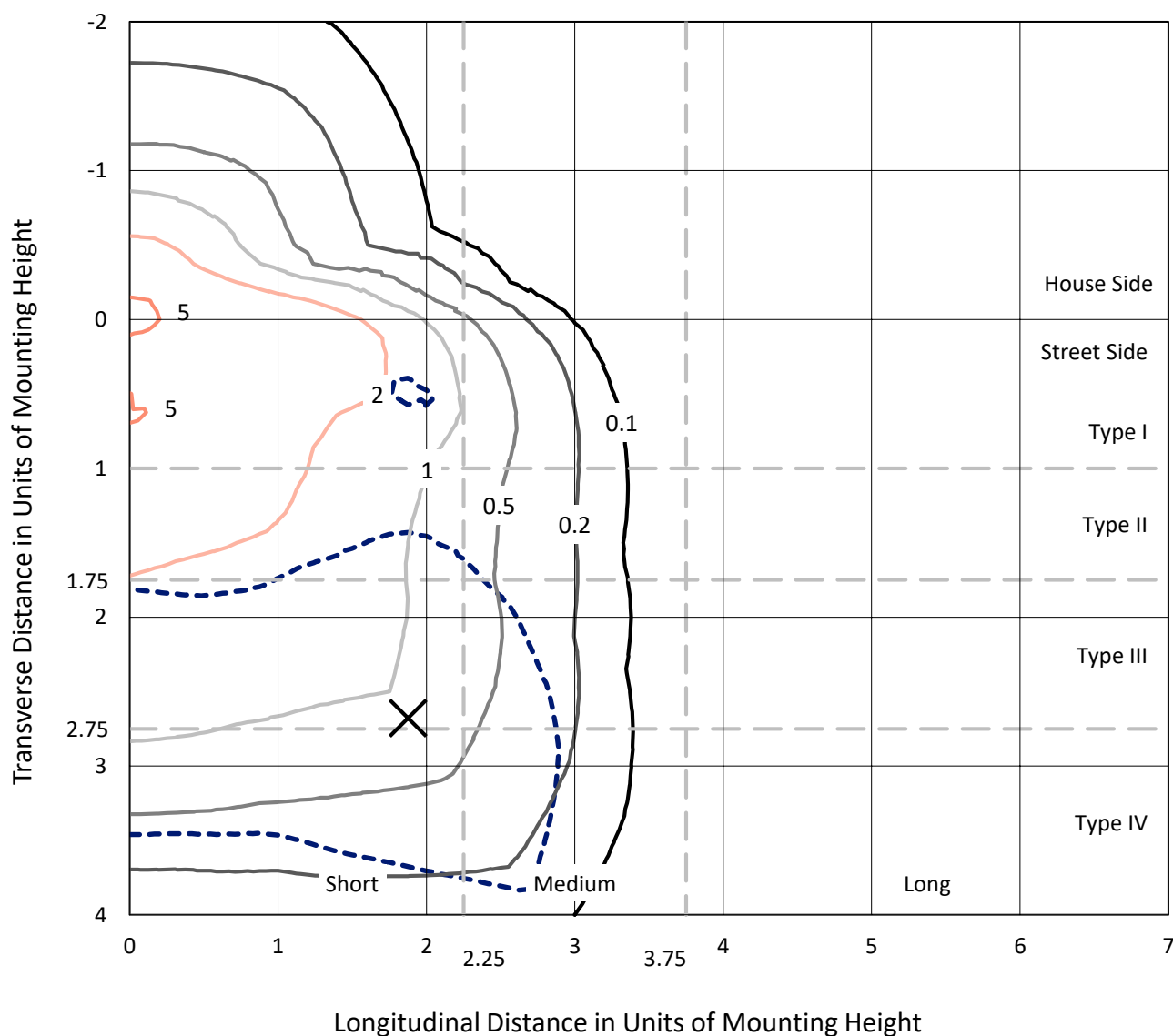


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

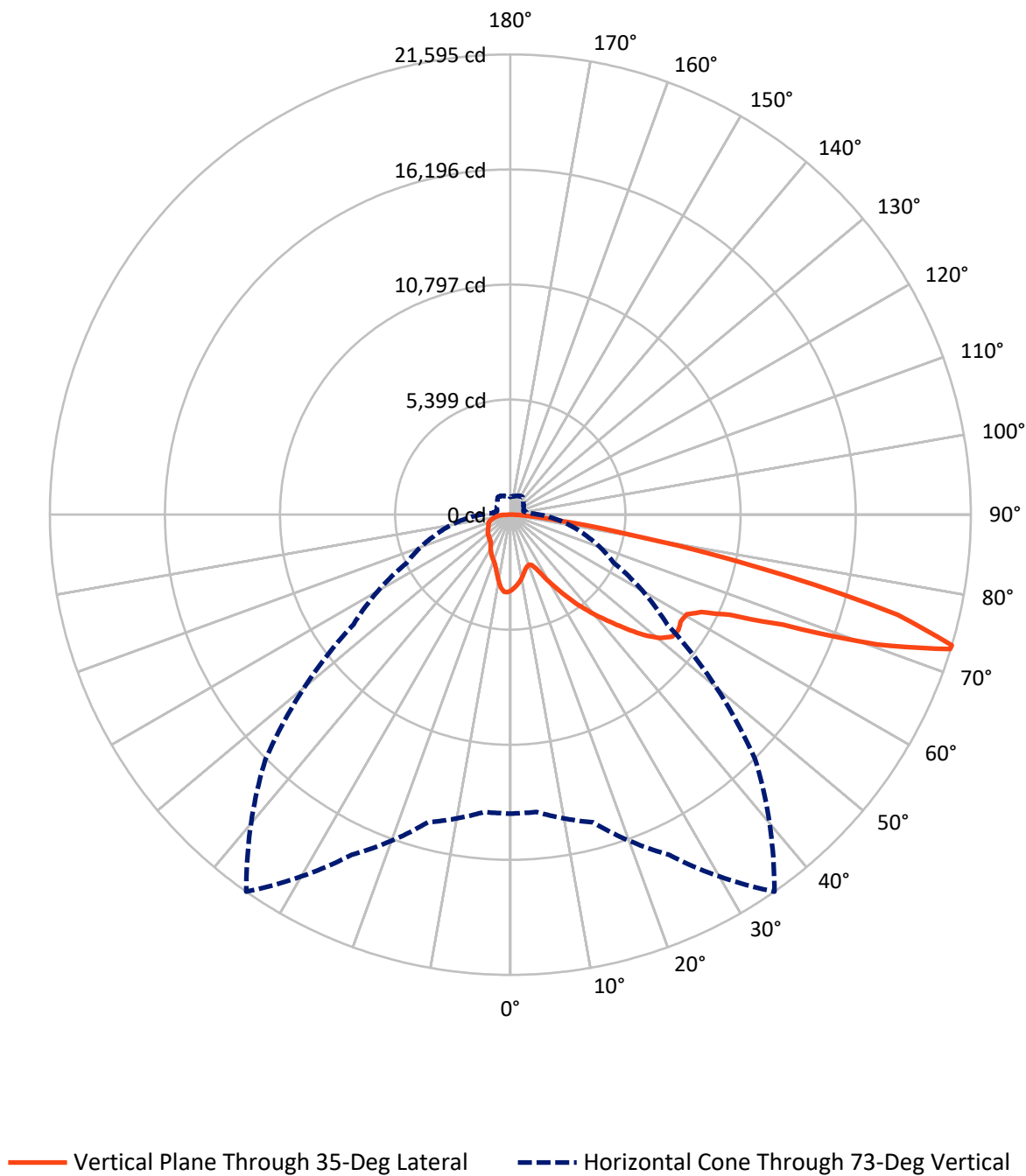


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4500.6	0.0	4500.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	19096.4	0.0	19096.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	23597.0	0.0	23597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	1.4
10°-20°	804.7	3.4
20°-30°	1300.9	5.5
30°-40°	2181.5	9.2
40°-50°	3362.6	14.3
50°-60°	4511.4	19.1
60°-70°	6010.0	25.5
70°-80°	4583.8	19.4
80°-90°	519.6	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°	23597.0	100.0
0°-180°	23597.0	100.0

Coefficient of Utilization



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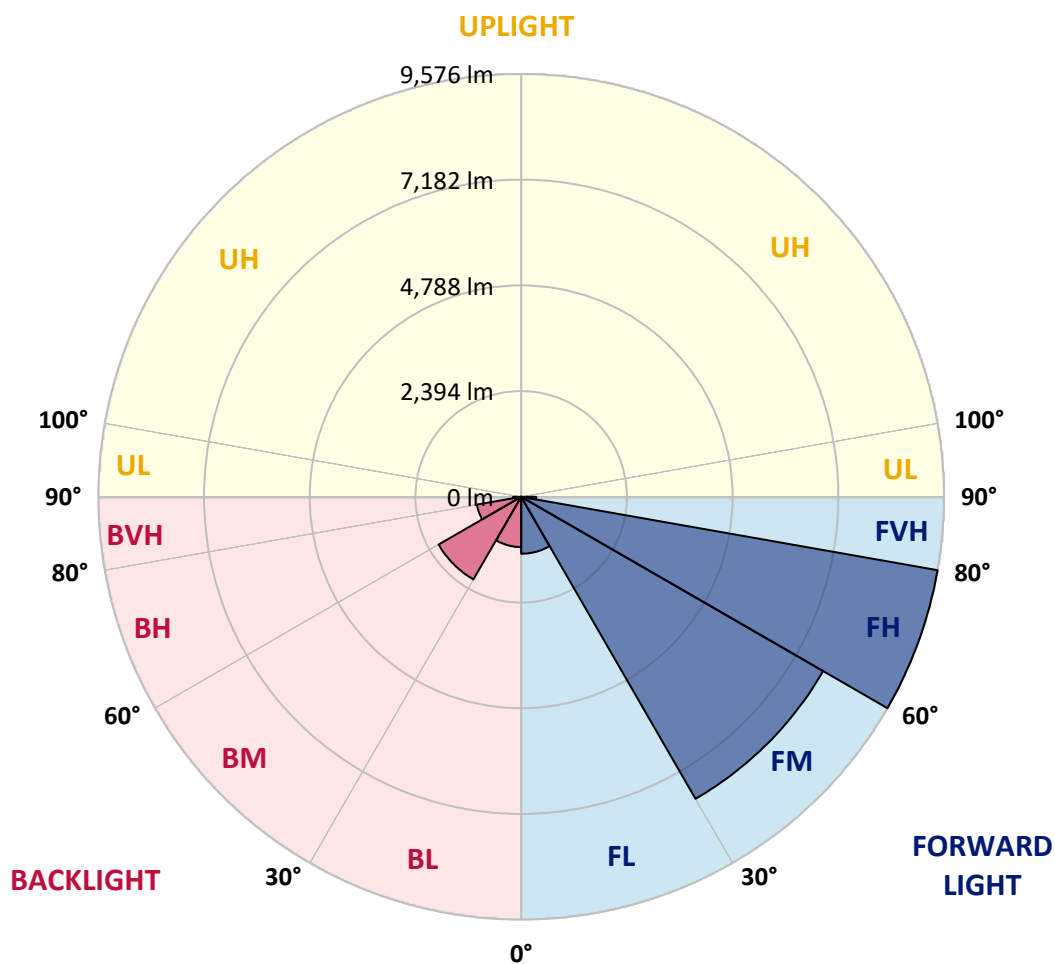
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.2	5.5			
FM	(30°-60°)	7895.7	33.5			
FH	(60°-80°)	9575.7	40.6			G4/12000
FVH	(80°-90°)	335.8	1.4			G3/500
BL	(0°-30°)	1138.9	4.8	B3/2500		
BM	(30°-60°)	2159.8	9.2	B2/2500		
BH	(60°-80°)	1018.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	183.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5
2.5°	3421.0	3427.8	3419.9	3430.1	3447.1	3465.2	3477.7	3495.8	3516.2	3544.5	3551.3
5°	3260.1	3270.3	3270.3	3288.4	3321.3	3350.8	3377.9	3407.4	3450.5	3499.2	3518.5
7.5°	3083.3	3089.0	3099.2	3126.4	3174.0	3215.9	3254.4	3302.0	3361.0	3425.5	3459.5
10°	2870.3	2878.2	2894.1	2932.6	2997.2	3055.0	3110.5	3176.2	3251.0	3331.5	3374.5
12.5°	2719.6	2717.3	2724.1	2752.4	2809.1	2879.4	2959.8	3043.7	3135.5	3229.5	3281.6
15°	2668.6	2656.1	2630.1	2623.3	2653.9	2724.1	2817.0	2920.2	3030.1	3143.4	3208.0
17.5°	2700.3	2678.8	2607.4	2555.3	2550.7	2604.0	2702.6	2818.2	2945.1	3083.3	3163.8
20°	2899.8	2848.8	2673.1	2551.9	2509.9	2536.0	2622.1	2744.5	2894.1	3077.7	3180.8
22.5°	3376.8	3302.0	2929.2	2703.7	2562.1	2530.3	2594.9	2725.2	2899.8	3147.9	3279.4
25°	4071.4	3964.9	3368.9	3082.2	2789.8	2621.0	2635.7	2769.4	2980.2	3311.1	3469.7
27.5°	4619.9	4550.8	3943.4	3615.9	3204.6	2865.8	2768.3	2880.5	3144.5	3578.5	3740.6
30°	4946.2	4904.3	4557.6	4221.0	3733.8	3255.6	3022.1	3089.0	3401.7	3949.1	4082.8
32.5°	5324.7	5299.8	5129.8	4820.5	4304.9	3767.8	3424.4	3400.6	3746.2	4394.4	4455.6
35°	5716.8	5708.9	5609.1	5387.0	4917.9	4443.1	3958.1	3797.2	4121.3	4856.7	4818.2
37.5°	6081.7	6068.1	6010.3	5881.1	5559.3	5168.3	4502.0	4204.0	4525.8	5298.7	5127.5
40°	6753.6	6647.1	6448.8	6351.4	6207.4	5779.1	4933.8	4583.6	4945.1	5720.2	5395.0
42.5°	7572.9	7399.5	7030.1	6896.4	6876.0	6260.7	5228.4	4951.9	5367.8	6138.3	5657.9
45°	8217.7	8054.5	7736.1	7567.2	7642.0	6697.0	5524.2	5345.1	5802.9	6576.9	5928.7
47.5°	8905.5	8649.4	8227.9	8278.9	8442.0	7109.4	5825.6	5767.8	6280.0	7067.5	6265.2
50°	8930.4	8734.4	8549.7	8854.5	9108.3	7489.1	6202.9	6210.8	6863.5	7685.1	6712.8
52.5°	8412.6	8370.6	8664.1	9143.5	9509.5	7789.3	6632.4	6668.6	7610.3	8394.4	7204.6
55°	8231.3	8183.7	8522.5	9042.6	9563.9	8037.5	7098.1	7163.8	8513.4	9142.3	7684.0
57.5°	8673.2	8567.8	8590.5	8995.0	9431.3	8309.5	7605.8	7738.3	9494.7	9796.2	7992.2
60°	9908.3	9682.8	9254.5	9244.3	9502.7	8717.4	8192.7	8354.8	10514.6	10108.9	7872.1
62.5°	11640.9	11415.4	10613.2	10090.8	10052.3	9390.5	8913.4	8956.5	11103.8	9685.1	7138.9
65°	13516.3	13314.6	12418.3	11680.6	11324.8	10505.5	9750.8	9225.1	10911.2	8519.1	5856.2
67.5°	15792.8	15576.4	14805.9	14124.8	13782.6	12305.0	10338.9	8967.8	9688.5	6599.5	4209.7
70°	17384.9	17164.0	16860.3	17412.1	18249.5	14901.0	10414.9	7921.9	7236.4	4386.5	2533.7
72.5°	15307.9	15204.7	15758.8	18083.0	21570.8	16476.1	9414.3	5767.8	4202.9	2328.6	1466.3
73°	14025.1	14002.5	14947.5	17612.7	21594.6	16233.6	8975.8	5361.0	3604.6	2060.1	1340.5
75°	6333.2	6515.7	8587.1	13452.9	18761.7	13376.9	6317.4	3075.4	2036.3	1423.2	1011.9
77.5°	1521.8	1585.3	2686.7	6388.8	11848.3	7971.8	2862.4	1520.7	1302.0	1005.1	738.8
80°	648.2	669.7	1034.6	2360.4	5578.5	3210.2	1319.0	1018.7	900.9	701.4	517.9
82.5°	360.3	383.0	587.0	1070.8	2251.6	1094.6	804.5	709.4	592.6	422.7	336.5
85°	204.0	216.4	343.3	598.3	954.1	439.7	481.6	471.4	334.3	217.6	165.4
87.5°	96.3	104.3	165.4	277.6	373.9	172.2	244.8	269.7	209.6	132.6	86.1
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°	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5
2.5°	3559.3	3579.7	3603.4	3615.9	3627.2	3640.8	3654.4	3654.4	3656.7	3657.8
5°	3534.3	3576.3	3613.6	3629.5	3632.9	3632.9	3629.5	3611.4	3595.5	3602.3
7.5°	3482.2	3543.4	3575.1	3569.5	3526.4	3476.5	3434.6	3383.6	3357.6	3353.0
10°	3407.4	3477.7	3483.3	3426.7	3320.2	3213.6	3125.3	3039.1	2998.3	2988.1
12.5°	3324.7	3389.3	3353.0	3236.3	3065.2	2910.0	2797.8	2710.5	2672.0	2661.8
15°	3257.8	3302.0	3210.2	3026.7	2811.4	2647.1	2554.1	2489.6	2462.4	2454.4
17.5°	3222.7	3231.8	3064.1	2815.9	2587.0	2449.9	2392.1	2361.5	2351.3	2345.6
20°	3239.7	3176.2	2924.7	2619.9	2403.4	2307.1	2293.5	2285.6	2283.3	2279.9
22.5°	3324.7	3159.2	2796.6	2434.0	2242.5	2200.6	2211.9	2210.8	2208.5	2206.3
25°	3476.5	3174.0	2672.0	2257.3	2107.7	2098.6	2119.0	2119.0	2109.9	2109.9
27.5°	3677.1	3204.6	2532.6	2089.5	1985.3	1986.4	2002.3	1997.8	1987.6	1980.8
30°	3921.9	3223.8	2369.4	1938.8	1870.8	1866.3	1870.8	1851.6	1821.0	1818.7
32.5°	4172.3	3200.0	2180.2	1805.1	1749.6	1739.4	1736.0	1708.8	1673.7	1663.5
35°	4398.9	3112.8	1987.6	1698.6	1634.0	1611.4	1627.2	1618.2	1586.4	1578.5
37.5°	4564.4	2950.7	1814.2	1604.6	1551.3	1545.6	1555.8	1559.2	1521.8	1513.9
40°	4675.4	2730.9	1665.7	1525.2	1535.4	1513.9	1479.9	1456.1	1444.8	1441.4
42.5°	4764.9	2502.0	1541.1	1487.8	1538.8	1476.5	1402.9	1364.3	1384.7	1393.8
45°	4868.1	2278.8	1436.8	1441.4	1521.8	1433.4	1349.6	1312.2	1320.1	1322.4
47.5°	5009.7	2006.8	1324.7	1366.6	1465.2	1404.0	1316.7	1263.5	1226.1	1209.1
50°	5205.7	1685.0	1207.9	1282.7	1409.7	1382.5	1265.7	1209.1	1140.0	1124.1
52.5°	5341.7	1384.7	1111.6	1212.5	1359.8	1339.4	1224.9	1151.3	1078.8	1065.2
55°	5268.1	1150.2	1027.8	1134.3	1294.1	1286.1	1191.0	1092.4	1035.7	1024.4
57.5°	4899.8	1001.7	963.2	1060.6	1213.6	1240.8	1145.6	1042.5	1001.7	993.8
60°	4197.2	908.8	922.4	1010.8	1147.9	1195.5	1100.3	1015.3	988.1	982.4
62.5°	3256.7	846.5	891.8	974.5	1096.9	1163.8	1075.4	1011.9	1001.7	994.9
65°	2333.2	796.6	858.9	938.3	1050.4	1134.3	1066.3	1007.4	1009.6	1004.0
67.5°	1585.3	752.4	819.3	897.5	1005.1	1108.2	1053.8	991.5	1019.8	1013.0
70°	1109.4	709.4	772.8	845.3	948.5	1072.0	1031.2	967.7	965.5	938.3
72.5°	865.7	652.7	709.4	772.8	875.9	1021.0	985.8	914.5	877.1	848.7
73°	826.1	639.1	693.5	757.0	860.1	1008.5	973.4	899.7	857.8	831.7
75°	683.3	580.2	630.0	686.7	792.1	949.6	912.2	832.9	779.6	763.7
77.5°	537.1	496.3	543.9	594.9	698.0	863.5	821.5	745.6	716.2	702.6
80°	397.7	411.3	453.3	498.6	605.1	771.7	734.3	658.4	789.8	757.0
82.5°	279.9	311.6	350.1	390.9	507.7	682.2	636.8	558.6	577.9	480.5
85°	165.4	204.0	240.2	275.4	366.0	565.4	525.8	445.3	364.9	347.9
87.5°	96.3	113.3	123.5	159.8	251.6	426.1	370.5	329.7	189.2	128.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)