

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: P193254

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193254
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 22822.1 lumens
Efficiency: N/A
Efficacy: 118.2 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

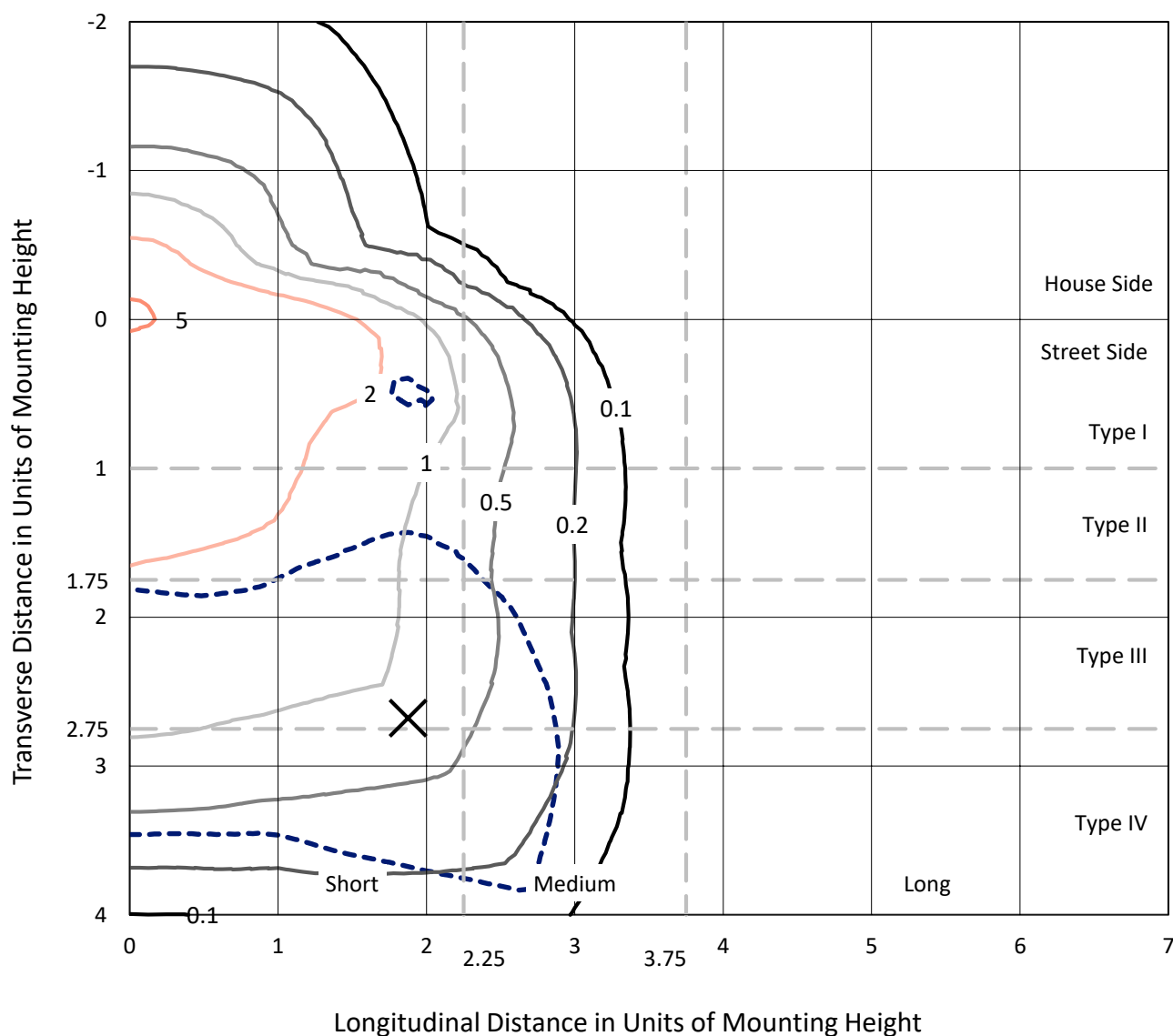


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

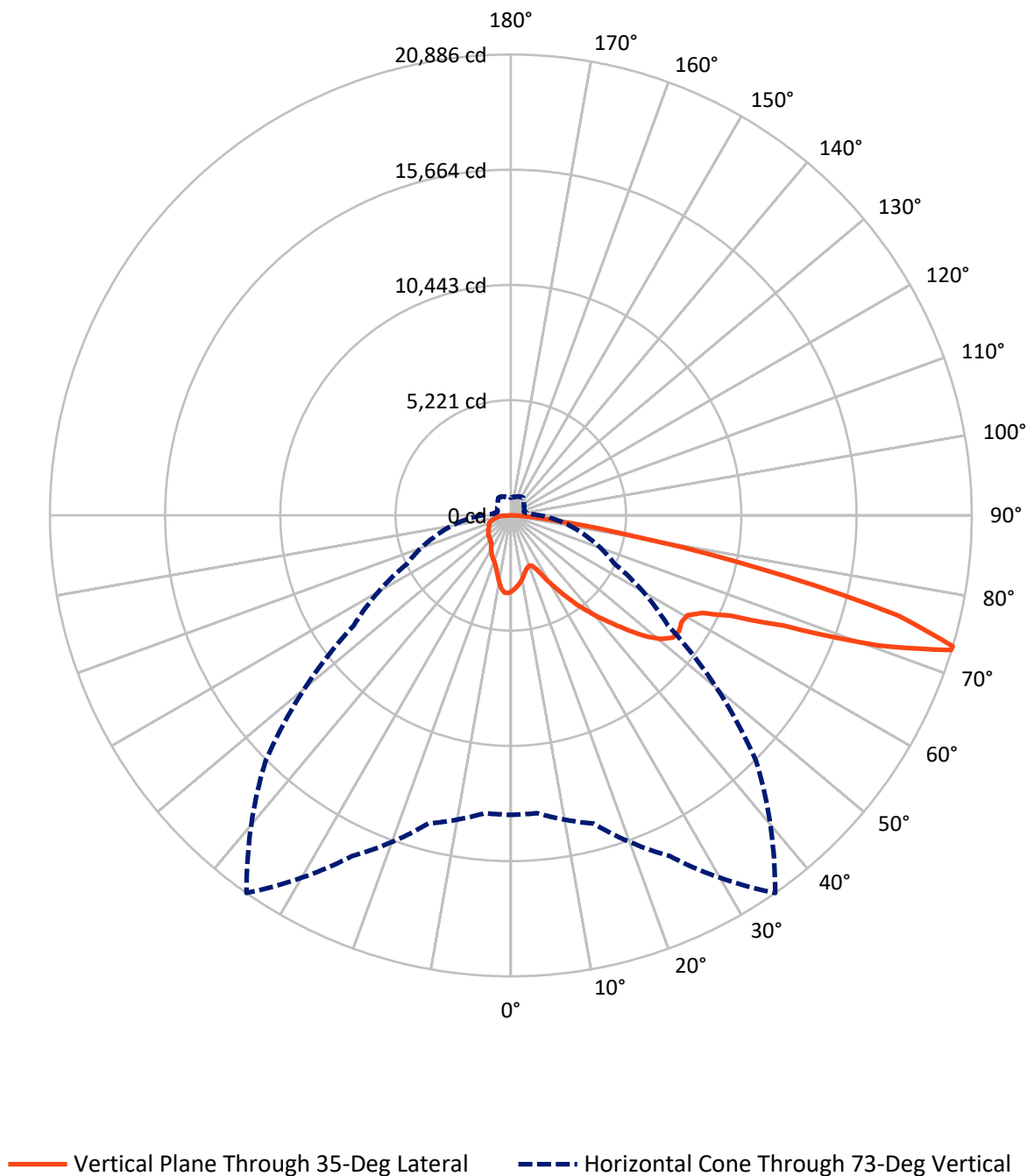


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4352.8	0.0	4352.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	18469.3	0.0	18469.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	22822.1	0.0	22822.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	1.4
10°-20°	778.3	3.4
20°-30°	1258.2	5.5
30°-40°	2109.8	9.2
40°-50°	3252.2	14.3
50°-60°	4363.2	19.1
60°-70°	5812.7	25.5
70°-80°	4433.3	19.4
80°-90°	502.5	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°	22822.1	100.0
0°-180°	22822.1	100.0

Coefficient of Utilization



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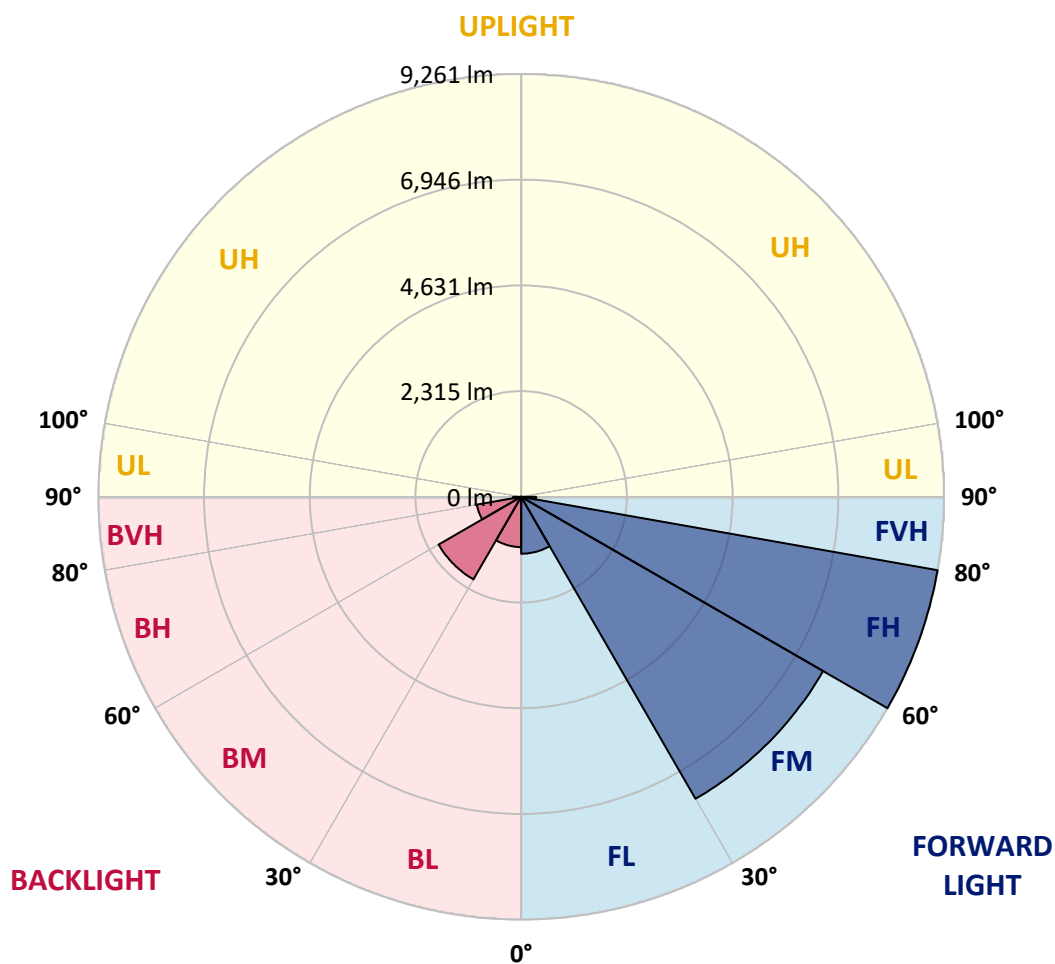
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1246.9	5.5			
FM	(30°-60°)	7636.4	33.5			
FH	(60°-80°)	9261.2	40.6			G4/12000
FVH	(80°-90°)	324.8	1.4			G3/500
BL	(0°-30°)	1101.5	4.8	B3/2500		
BM	(30°-60°)	2088.9	9.2	B2/2500		
BH	(60°-80°)	984.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	177.7	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°	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	3308.7	3315.3	3307.6	3317.4	3333.8	3351.4	3363.4	3381.0	3400.7	3428.1	3434.7
5°	3153.0	3162.9	3162.9	3180.4	3212.2	3240.7	3267.1	3295.5	3337.1	3384.3	3402.9
7.5°	2982.1	2987.5	2997.4	3023.7	3069.7	3110.3	3147.5	3193.5	3250.6	3313.1	3345.9
10°	2776.1	2783.7	2799.0	2836.3	2898.7	2954.7	3008.4	3072.0	3144.3	3222.0	3263.7
12.5°	2630.3	2628.1	2634.7	2662.1	2716.8	2784.8	2862.6	2943.7	3032.5	3123.4	3173.9
15°	2580.9	2568.9	2543.7	2537.1	2566.7	2634.7	2724.5	2824.3	2930.6	3040.1	3102.6
17.5°	2611.7	2590.9	2521.8	2471.3	2467.0	2518.5	2613.8	2725.6	2848.4	2982.1	3060.0
20°	2804.5	2755.2	2585.3	2468.0	2427.5	2452.8	2536.0	2654.4	2799.0	2976.5	3076.3
22.5°	3265.9	3193.5	2833.0	2614.9	2477.9	2447.3	2509.6	2635.8	2804.5	3044.5	3171.7
25°	3937.7	3834.7	3258.2	2980.9	2698.2	2535.0	2549.1	2678.5	2882.4	3202.4	3355.8
27.5°	4468.1	4401.3	3813.9	3497.2	3099.3	2771.7	2677.4	2785.9	3041.2	3461.0	3617.7
30°	4783.8	4743.3	4407.8	4082.4	3611.1	3148.7	2922.9	2987.5	3290.1	3819.3	3948.7
32.5°	5149.8	5125.8	4961.4	4662.2	4163.6	3644.1	3311.9	3288.9	3623.1	4250.0	4309.3
35°	5529.1	5521.4	5424.9	5210.1	4756.4	4297.1	3828.1	3672.5	3986.0	4697.3	4660.0
37.5°	5882.0	5868.8	5812.9	5687.9	5376.7	4998.6	4354.2	4066.0	4377.3	5124.7	4959.2
40°	6531.8	6428.9	6237.1	6142.8	6003.6	5589.3	4771.8	4433.0	4782.8	5532.4	5217.7
42.5°	7324.2	7156.5	6799.2	6669.9	6650.2	6055.1	5056.7	4789.3	5191.5	5936.7	5472.0
45°	7947.8	7789.9	7482.1	7318.7	7391.1	6477.0	5342.8	5169.6	5612.3	6360.8	5734.0
47.5°	8613.0	8365.3	7957.7	8006.9	8164.8	6876.0	5634.3	5578.3	6073.7	6835.4	6059.5
50°	8637.2	8447.6	8269.0	8563.7	8809.2	7243.2	5999.2	6006.8	6638.1	7432.7	6492.4
52.5°	8136.3	8095.8	8379.6	8843.2	9197.2	7533.5	6414.6	6449.7	7360.4	8118.7	6968.0
55°	7960.9	7915.0	8242.6	8745.6	9249.8	7773.6	6865.0	6928.5	8233.9	8842.2	7431.6
57.5°	8388.4	8286.4	8308.4	8699.7	9121.5	8036.6	7356.0	7484.3	9182.9	9474.4	7729.8
60°	9582.9	9364.8	8950.6	8940.6	9190.6	8431.1	7923.7	8080.4	10169.3	9776.9	7613.5
62.5°	11258.6	11040.5	10264.7	9759.4	9722.1	9082.0	8620.7	8662.4	10739.2	9367.1	6904.4
65°	13072.5	12877.4	12010.5	11297.0	10952.9	10160.6	9430.6	8922.1	10553.0	8239.3	5663.9
67.5°	15274.2	15064.8	14319.6	13661.0	13329.9	11900.8	9999.4	8673.3	9370.3	6382.8	4071.4
70°	16814.0	16600.3	16306.6	16840.3	17650.2	14411.8	10072.8	7661.8	6998.7	4242.4	2450.5
72.5°	14805.1	14705.4	15241.3	17489.1	20862.4	15935.0	9105.1	5578.3	4064.9	2252.2	1418.1
73°	13564.5	13542.5	14456.6	17034.3	20885.5	15700.5	8680.9	5184.9	3486.3	1992.5	1296.5
75°	6125.3	6301.7	8305.2	13011.0	18145.6	12937.6	6109.9	2974.4	1969.4	1376.5	978.6
77.5°	1471.8	1533.2	2598.5	6178.9	11459.2	7710.0	2768.4	1470.7	1259.2	972.1	714.5
80°	626.9	647.7	1000.6	2282.9	5395.3	3104.8	1275.7	985.3	871.3	678.4	500.9
82.5°	348.5	370.4	567.7	1035.7	2177.6	1058.7	778.2	686.0	573.2	408.7	325.5
85°	197.3	209.3	332.0	578.6	922.8	425.2	465.8	455.9	323.3	210.5	159.9
87.5°	93.2	100.8	159.9	268.6	361.6	166.6	236.8	260.8	202.7	128.3	83.2
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°	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5	3444.5
2.5°	3442.3	3462.1	3485.2	3497.2	3508.1	3521.3	3534.4	3534.4	3536.6	3537.7
5°	3418.2	3458.8	3494.9	3510.3	3513.6	3513.6	3510.3	3492.8	3477.4	3484.1
7.5°	3367.8	3427.0	3457.7	3452.3	3410.6	3362.4	3321.8	3272.6	3247.3	3243.0
10°	3295.5	3363.4	3368.9	3314.2	3211.1	3108.1	3022.6	2939.3	2899.8	2890.0
12.5°	3215.5	3278.0	3243.0	3130.1	2964.5	2814.4	2706.0	2621.4	2584.2	2574.3
15°	3150.8	3193.5	3104.8	2927.3	2719.0	2560.2	2470.3	2407.7	2381.6	2373.7
17.5°	3116.8	3125.7	2963.4	2723.4	2502.0	2369.4	2313.6	2283.9	2274.1	2268.7
20°	3133.3	3072.0	2828.6	2533.8	2324.5	2231.3	2218.2	2210.6	2208.3	2205.1
22.5°	3215.5	3055.6	2704.8	2354.1	2168.9	2128.4	2139.3	2138.2	2136.0	2133.9
25°	3362.4	3069.7	2584.2	2183.1	2038.4	2029.7	2049.3	2049.3	2040.6	2040.6
27.5°	3556.4	3099.3	2449.5	2021.0	1920.1	1921.3	1936.5	1932.1	1922.3	1915.8
30°	3793.1	3117.9	2291.6	1875.2	1809.5	1805.1	1809.5	1790.8	1761.2	1759.0
32.5°	4035.3	3095.0	2108.6	1745.9	1692.1	1682.3	1679.0	1652.6	1618.6	1608.9
35°	4254.4	3010.5	1922.3	1642.8	1580.3	1558.5	1573.8	1565.0	1534.3	1526.7
37.5°	4414.5	2853.9	1754.6	1551.8	1500.3	1494.8	1504.7	1508.0	1471.8	1464.2
40°	4521.9	2641.3	1611.0	1475.1	1485.1	1464.2	1431.3	1408.3	1397.3	1394.0
42.5°	4608.4	2419.9	1490.6	1439.0	1488.3	1428.0	1356.8	1319.6	1339.3	1348.0
45°	4708.2	2204.0	1389.7	1394.0	1471.8	1386.4	1305.3	1269.1	1276.8	1279.0
47.5°	4845.2	1940.9	1281.2	1321.7	1417.1	1357.9	1273.5	1221.9	1185.8	1169.4
50°	5034.7	1629.7	1168.3	1240.6	1363.3	1337.0	1224.1	1169.4	1102.5	1087.1
52.5°	5166.4	1339.3	1075.1	1172.7	1315.2	1295.4	1184.7	1113.5	1043.3	1030.2
55°	5095.1	1112.4	994.0	1097.1	1251.6	1243.9	1151.8	1056.5	1001.7	990.8
57.5°	4738.9	968.8	931.6	1025.8	1173.8	1200.1	1108.0	1008.3	968.8	961.2
60°	4059.4	879.0	892.1	977.6	1110.2	1156.2	1064.1	982.0	955.7	950.2
62.5°	3149.7	818.7	862.5	942.5	1060.9	1125.6	1040.0	978.6	968.8	962.2
65°	2256.5	770.5	830.7	907.4	1015.9	1097.1	1031.3	974.3	976.4	971.0
67.5°	1533.2	727.6	792.3	867.9	972.1	1071.9	1019.3	959.0	986.4	979.7
70°	1072.9	686.0	747.5	817.6	917.3	1036.8	997.3	936.0	933.7	907.4
72.5°	837.3	631.3	686.0	747.5	847.2	987.4	953.5	884.5	848.3	820.9
73°	798.9	618.1	670.8	732.1	831.8	975.3	941.4	870.1	829.6	804.4
75°	660.9	561.1	609.3	664.2	766.0	918.5	882.3	805.6	754.0	738.7
77.5°	519.5	479.9	526.1	575.4	675.1	835.1	794.6	721.1	692.6	679.5
80°	384.7	397.8	438.3	482.3	585.2	746.4	710.1	636.8	763.8	732.1
82.5°	270.8	301.3	338.6	378.1	491.0	659.7	615.9	540.3	559.0	464.7
85°	159.9	197.3	232.4	266.3	354.0	546.9	508.5	430.7	352.9	336.4
87.5°	93.2	109.6	119.4	154.5	243.3	412.1	358.4	318.9	183.0	123.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)