

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: P302919

Luminaire Tested: **GLNA-AF-07-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-T4W-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26550.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

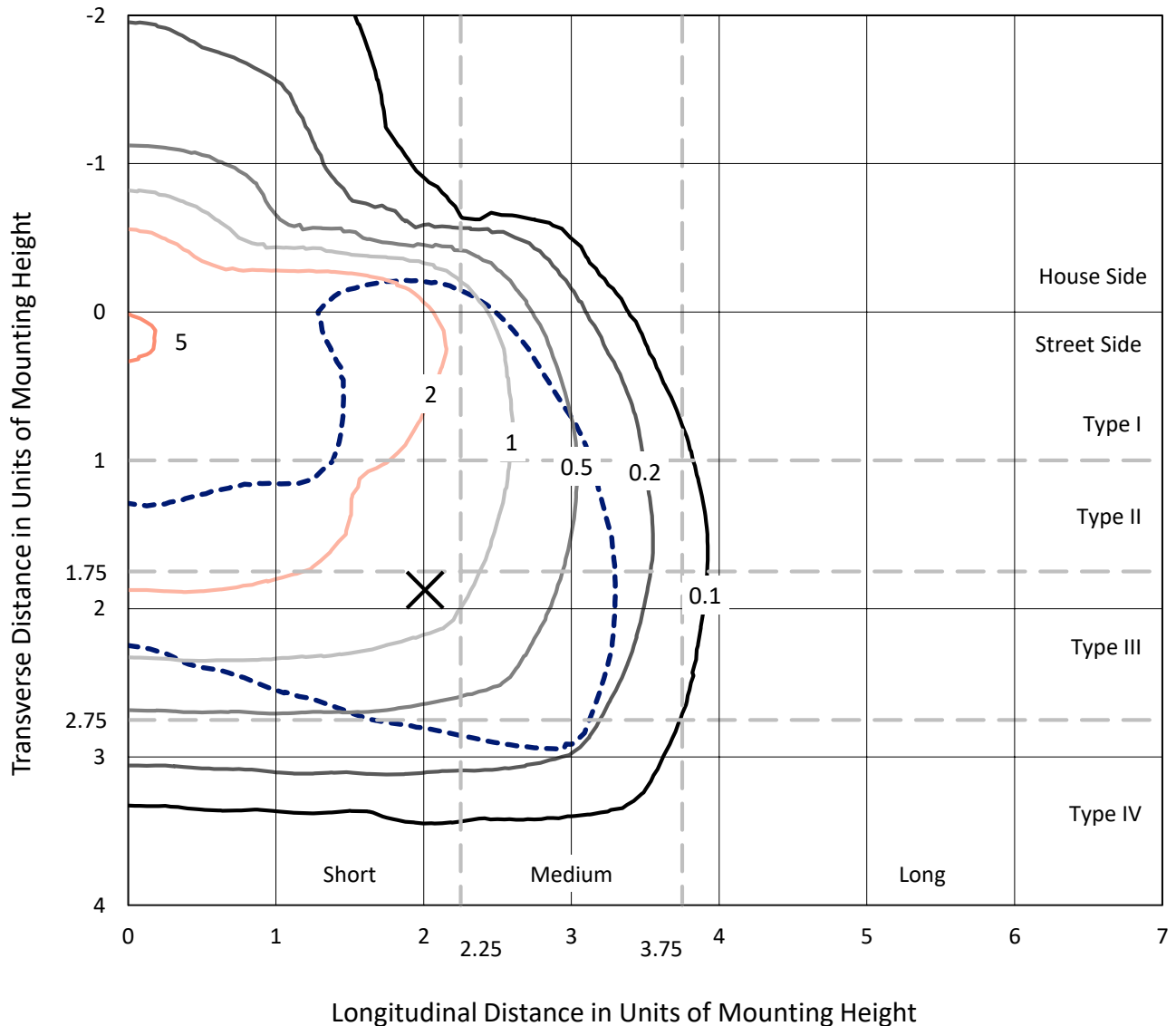
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

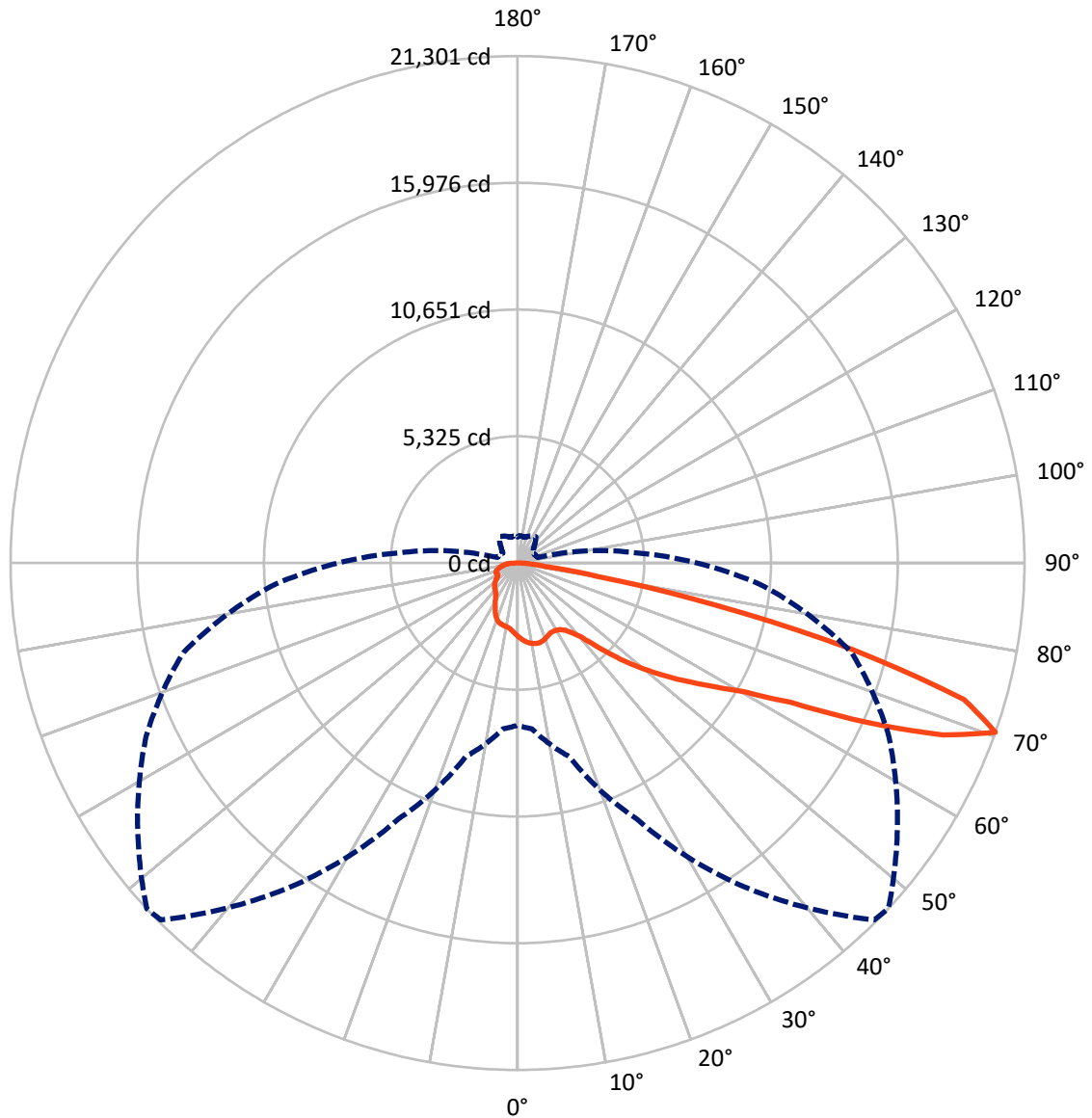
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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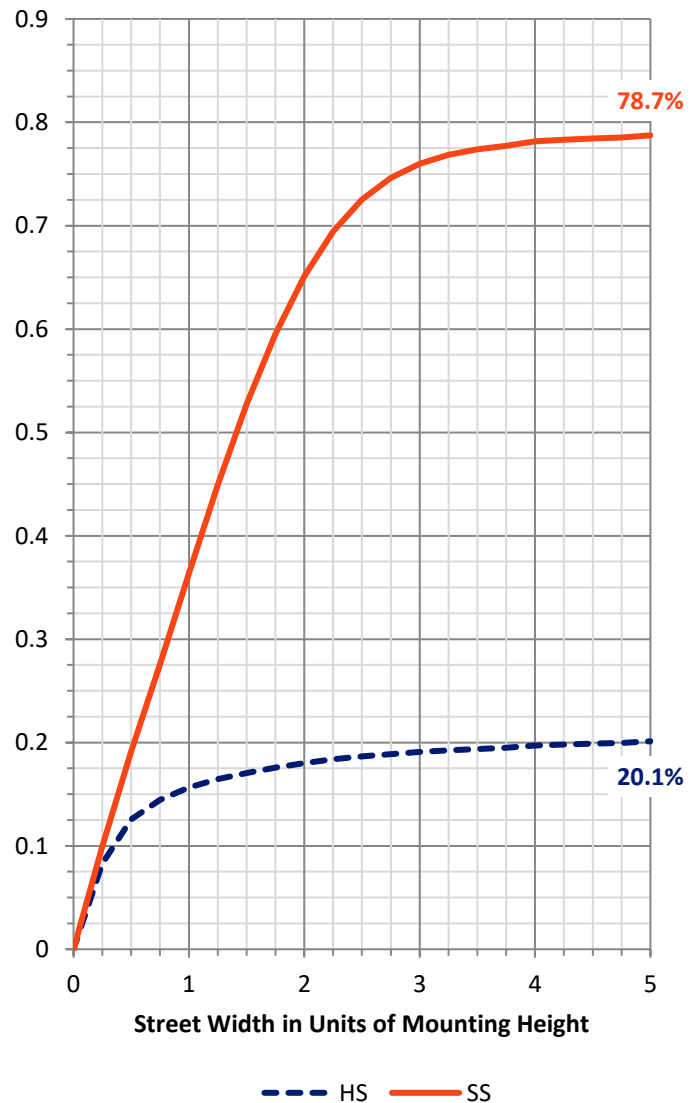
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5539.0	0.0	5539.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	21011.6	0.0	21011.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	26550.5	0.0	26550.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	1.1
10°-20°	866.0	3.3
20°-30°	1278.8	4.8
30°-40°	1858.8	7.0
40°-50°	3345.1	12.6
50°-60°	5795.0	21.8
60°-70°	8271.2	31.2
70°-80°	4246.0	16.0
80°-90°	594.4	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°	26550.5	100.0
0°-180°	26550.5	100.0

Coefficient of Utilization



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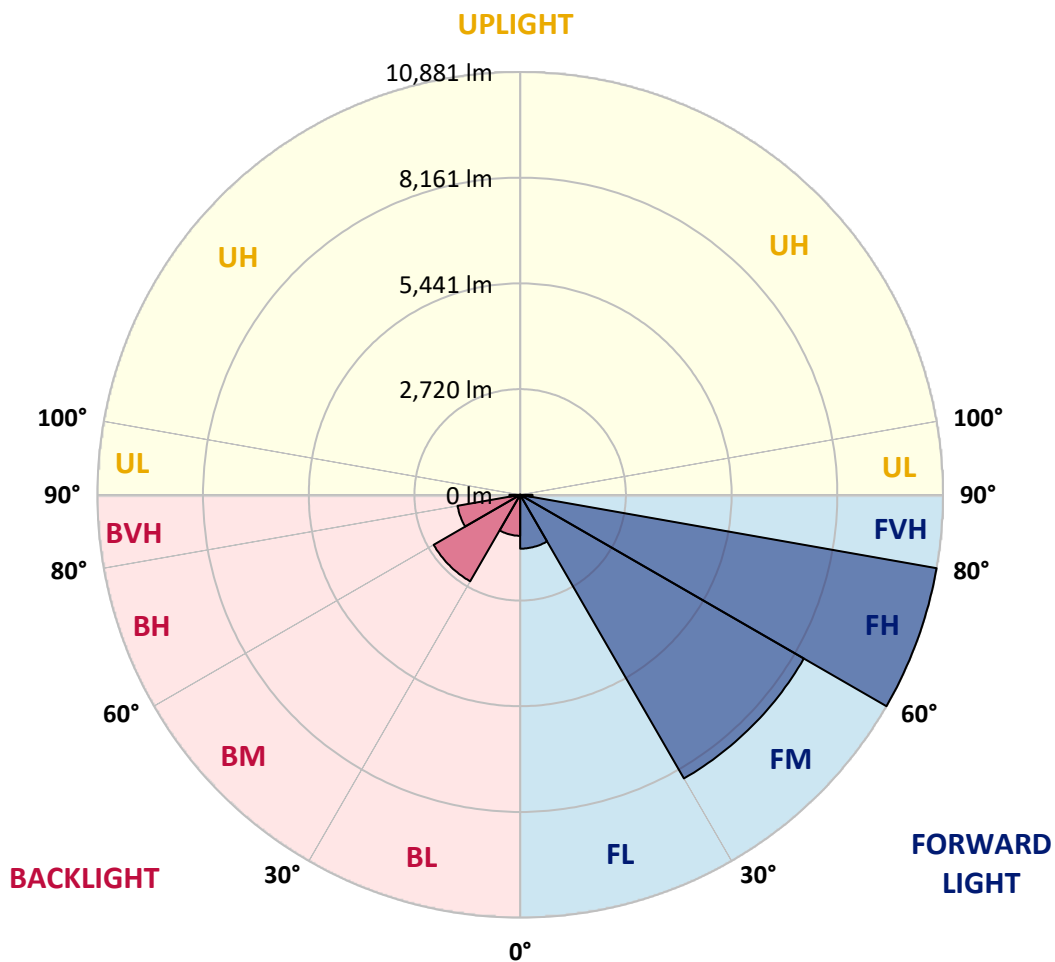
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1385.4	5.2			
FM	(30°-60°)	8427.9	31.7			
FH	(60°-80°)	10881.1	41.0			G4/12000
FVH	(80°-90°)	317.2	1.2			G3/500
BL	(0°-30°)	1054.6	4.0	B3/2500		
BM	(30°-60°)	2571.0	9.7	B3/5000		
BH	(60°-80°)	1636.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	277.2	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°	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6
2.5°	3261.7	3255.2	3252.6	3247.5	3241.1	3208.5	3202.0	3178.9	3146.7	3112.8	3078.0
5°	3476.2	3474.9	3460.3	3434.5	3393.4	3322.1	3305.4	3248.8	3172.4	3098.6	3025.3
7.5°	3664.5	3652.9	3625.9	3574.0	3501.9	3404.9	3381.8	3302.8	3198.2	3097.3	2997.8
10°	3802.6	3796.2	3737.0	3665.8	3571.4	3464.1	3437.1	3349.2	3234.2	3106.4	2982.4
12.5°	3881.6	3868.7	3800.0	3715.1	3602.7	3498.0	3470.6	3381.8	3252.6	3106.4	2960.5
15°	3876.4	3867.4	3798.8	3705.7	3592.4	3500.6	3476.2	3386.9	3248.8	3093.5	2932.2
17.5°	3773.0	3776.9	3719.0	3627.2	3534.1	3464.1	3442.3	3359.9	3222.6	3067.7	2898.7
20°	3592.4	3610.4	3571.4	3490.3	3438.4	3390.8	3376.6	3306.7	3182.7	3030.4	2862.3
22.5°	3411.4	3428.1	3412.7	3344.0	3336.3	3308.0	3300.3	3250.1	3148.0	3007.3	2840.4
25°	3278.4	3293.8	3291.3	3231.6	3255.2	3253.9	3247.5	3222.6	3140.2	3007.3	2844.2
27.5°	3242.3	3247.5	3242.3	3187.9	3220.0	3246.2	3241.1	3236.8	3163.4	3044.6	2893.6
30°	3366.3	3358.6	3318.3	3208.5	3238.5	3274.5	3269.4	3271.9	3232.9	3142.8	3003.4
32.5°	3861.0	3825.8	3699.2	3390.8	3311.8	3331.2	3333.7	3376.6	3383.1	3293.8	3173.7
35°	4601.0	4562.4	4398.1	3879.0	3540.5	3473.6	3473.6	3537.9	3576.5	3510.9	3438.4
37.5°	5385.2	5342.3	5254.8	4555.9	4021.0	3720.3	3713.8	3758.9	3814.2	3830.1	3848.1
40°	6276.2	6231.2	6255.6	5315.3	4691.5	4147.5	4055.7	4023.6	4173.3	4272.8	4417.8
42.5°	7251.7	7230.7	7239.7	6161.2	5454.7	4787.2	4656.7	4489.9	4670.9	4847.7	5151.4
45°	8154.3	8172.4	8163.4	7066.8	6304.9	5567.1	5428.9	5105.9	5283.1	5586.4	6081.4
47.5°	8945.0	8869.9	8986.2	8056.1	7256.9	6440.5	6269.8	5837.3	6016.7	6391.2	7228.1
50°	9904.7	9894.4	9724.0	9376.6	8407.5	7317.4	7093.9	6592.8	6871.7	7392.5	8673.9
52.5°	10913.6	10726.2	10570.0	10403.1	9628.4	8216.6	7942.4	7345.7	7876.8	8531.4	10435.7
55°	11120.0	11036.3	11229.8	11510.4	10805.1	9150.5	8831.3	8289.9	9008.5	9833.9	12467.5
57.5°	11561.9	11560.6	11961.3	12461.0	12016.6	10141.0	9819.3	9430.6	10280.5	11325.5	14624.5
60°	11860.4	11944.1	12688.4	13658.4	13206.2	11285.6	10989.6	10746.8	11727.5	12993.0	16634.3
62.5°	12016.6	12130.3	13145.7	14144.0	14887.9	13190.8	12895.2	12545.1	13641.6	14822.2	17809.8
65°	11367.1	11590.2	13074.5	14564.0	16360.6	16279.1	16146.1	15531.4	16035.0	16267.5	17385.0
67.5°	9568.7	9797.4	11525.8	14172.3	17412.1	19258.0	19286.4	18236.2	17507.7	16391.5	14616.7
70°	6817.6	6996.9	8427.2	11882.3	16611.1	21204.4	21301.3	19482.4	17214.3	14536.5	10212.2
72.5°	3236.8	3346.6	4700.5	7733.5	13181.7	19428.4	19615.8	17891.3	14637.3	10762.2	5570.9
75°	1189.6	1223.1	1588.6	3290.0	7645.6	14327.6	14548.5	12825.3	9703.0	5358.2	2122.2
77.5°	713.0	734.9	891.5	1388.7	3007.3	8189.5	8516.0	6975.0	4240.6	1994.4	1043.7
80°	498.5	513.9	639.2	864.0	1420.8	3120.9	3411.4	2846.8	1689.4	1262.1	759.3
82.5°	337.2	344.9	449.6	583.9	944.2	1114.5	1202.5	1266.0	1139.4	939.1	481.8
85°	220.9	228.7	305.0	384.8	600.6	576.1	589.0	745.2	831.8	637.9	267.3
87.5°	126.6	131.7	183.6	205.5	294.7	244.1	246.7	392.5	532.4	430.3	162.6
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°	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6	3080.6
2.5°	3069.0	3052.3	3015.0	2991.4	2969.5	2964.4	2955.4	2954.1	2952.8	2952.8	2948.9
5°	3000.4	2972.1	2914.2	2881.6	2854.5	2852.0	2850.7	2857.1	2859.7	2862.3	2858.4
7.5°	2956.6	2918.0	2845.5	2799.2	2767.0	2758.9	2772.2	2801.8	2821.1	2828.8	2824.9
10°	2929.6	2881.6	2797.9	2747.3	2720.3	2716.4	2733.1	2768.3	2808.2	2823.6	2822.4
12.5°	2898.7	2844.2	2755.0	2702.2	2686.8	2694.5	2716.4	2748.6	2790.2	2814.6	2815.9
15°	2867.4	2804.3	2712.5	2666.2	2659.8	2670.1	2690.7	2715.1	2747.3	2772.2	2774.7
17.5°	2830.1	2764.0	2672.6	2624.6	2619.4	2624.6	2625.9	2638.8	2659.8	2682.9	2689.4
20°	2790.2	2722.8	2627.2	2579.6	2556.4	2535.8	2512.2	2514.8	2521.2	2544.8	2550.0
22.5°	2761.4	2694.5	2592.4	2526.4	2464.6	2402.4	2356.0	2349.6	2352.2	2371.5	2377.9
25°	2764.0	2693.2	2583.4	2469.7	2334.2	2234.6	2172.4	2162.1	2160.9	2175.0	2184.4
27.5°	2814.6	2743.4	2616.9	2411.4	2192.2	2044.6	1979.0	1971.2	1960.9	1964.8	1975.1
30°	2927.0	2861.0	2698.4	2352.2	2038.2	1858.8	1790.2	1782.5	1768.3	1761.9	1769.6
32.5°	3110.2	3056.2	2817.2	2295.1	1884.6	1699.7	1630.2	1613.5	1604.4	1596.7	1603.2
35°	3415.2	3392.1	2975.9	2233.4	1749.0	1577.0	1513.9	1488.2	1475.3	1489.5	1499.8
37.5°	3893.1	3906.0	3184.0	2136.4	1644.3	1495.9	1442.7	1413.1	1393.8	1405.4	1417.0
40°	4570.1	4579.1	3413.9	1999.5	1553.8	1447.9	1391.2	1364.2	1336.8	1316.2	1314.9
42.5°	5458.5	5367.2	3640.0	1851.1	1449.1	1418.3	1355.2	1321.3	1280.1	1223.1	1211.5
45°	6512.6	6191.3	3811.6	1680.4	1331.6	1382.2	1314.9	1268.5	1203.8	1142.0	1135.6
47.5°	7727.1	7075.9	3895.7	1503.6	1221.8	1329.0	1266.0	1192.2	1110.7	1079.8	1075.9
50°	9209.7	8126.0	3935.6	1331.6	1126.5	1259.5	1194.8	1108.1	1039.9	1033.5	1029.6
52.5°	10898.2	9389.4	3948.9	1190.9	1047.6	1169.0	1136.8	1052.8	998.3	1003.8	1003.8
55°	12665.2	10694.0	3773.0	1088.8	975.1	1075.9	1097.8	1030.9	985.4	1006.4	1014.1
57.5°	14287.3	11850.1	3220.0	1010.3	906.9	1005.1	1083.6	1051.5	1020.6	1104.2	1109.4
60°	15532.6	12533.1	2404.9	939.1	856.3	980.3	1121.4	1130.4	1138.1	1338.0	1365.5
62.5°	15793.5	12306.2	1653.3	883.7	833.1	1001.3	1189.6	1190.9	1181.9	1321.3	1338.0
65°	14596.1	10868.2	1202.5	852.4	813.8	1038.6	1247.9	1220.5	1161.3	1267.3	1235.9
67.5°	11591.5	8188.2	1001.3	829.2	785.5	1036.0	1309.7	1247.9	1149.7	1241.5	1190.9
70°	7524.2	4951.0	891.5	809.9	751.6	986.7	1345.8	1245.4	1115.8	1154.9	1095.2
72.5°	3670.9	2214.0	817.7	781.6	716.9	918.5	1344.5	1221.8	1081.1	1078.5	1046.3
75°	1436.3	1014.1	750.3	738.7	657.7	840.8	1308.4	1188.3	1039.9	998.3	986.7
77.5°	840.8	723.3	665.4	675.7	586.4	763.2	1255.7	1130.4	982.8	933.9	921.1
80°	612.2	541.4	567.1	583.9	501.1	686.0	1184.5	1059.2	919.8	944.2	926.2
82.5°	392.5	348.8	459.9	476.6	417.4	607.0	1106.8	984.1	830.5	754.2	736.2
85°	200.3	220.9	342.3	362.9	321.7	498.5	1012.9	885.0	729.7	627.6	637.9
87.5°	112.4	151.0	218.4	244.1	227.4	383.5	821.5	729.7	595.4	484.3	426.4
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)