

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: P300337

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-AFL-7027
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42376.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 445
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

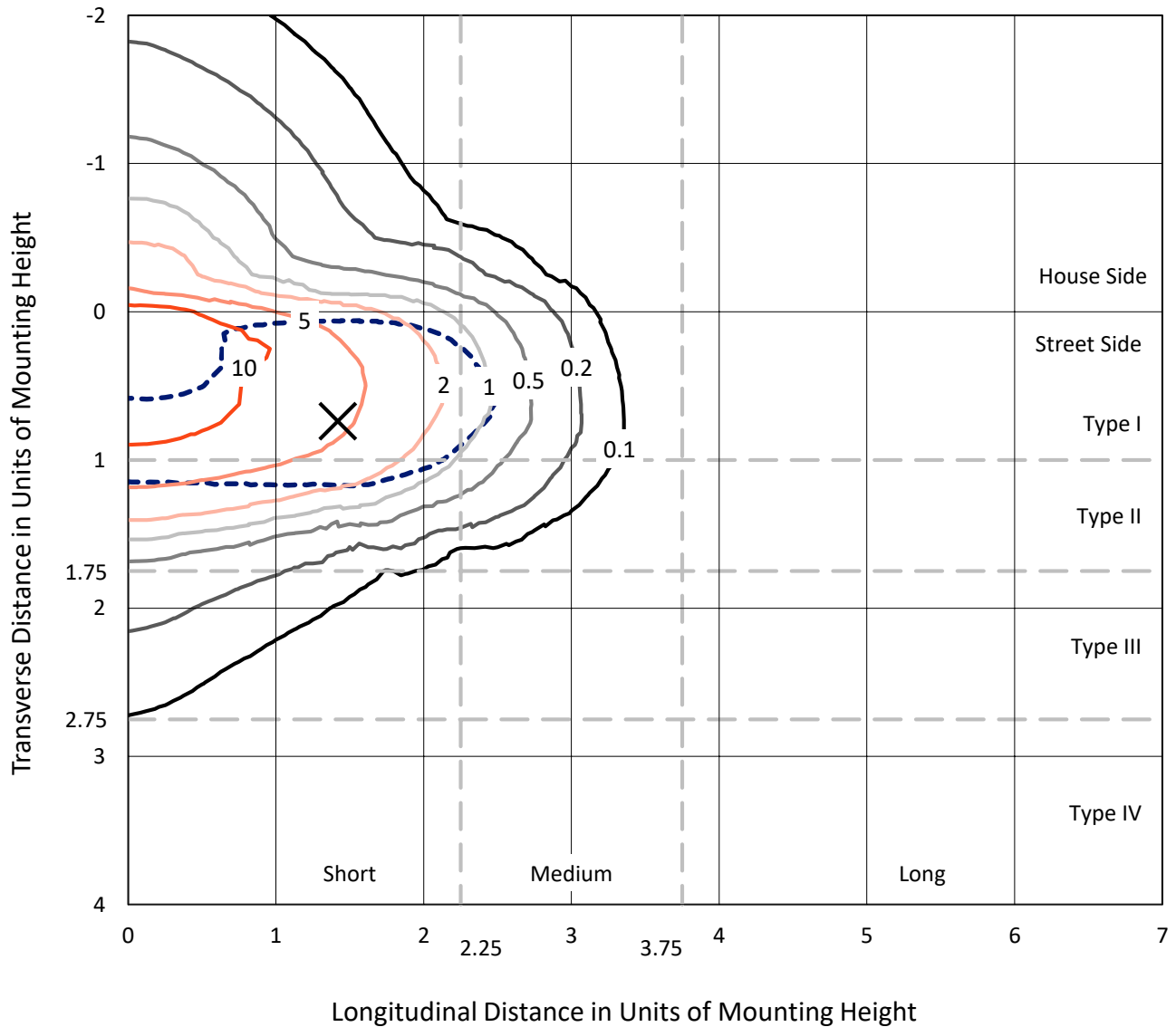


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Iso-Footcandle Lines of Horizontal Illumination

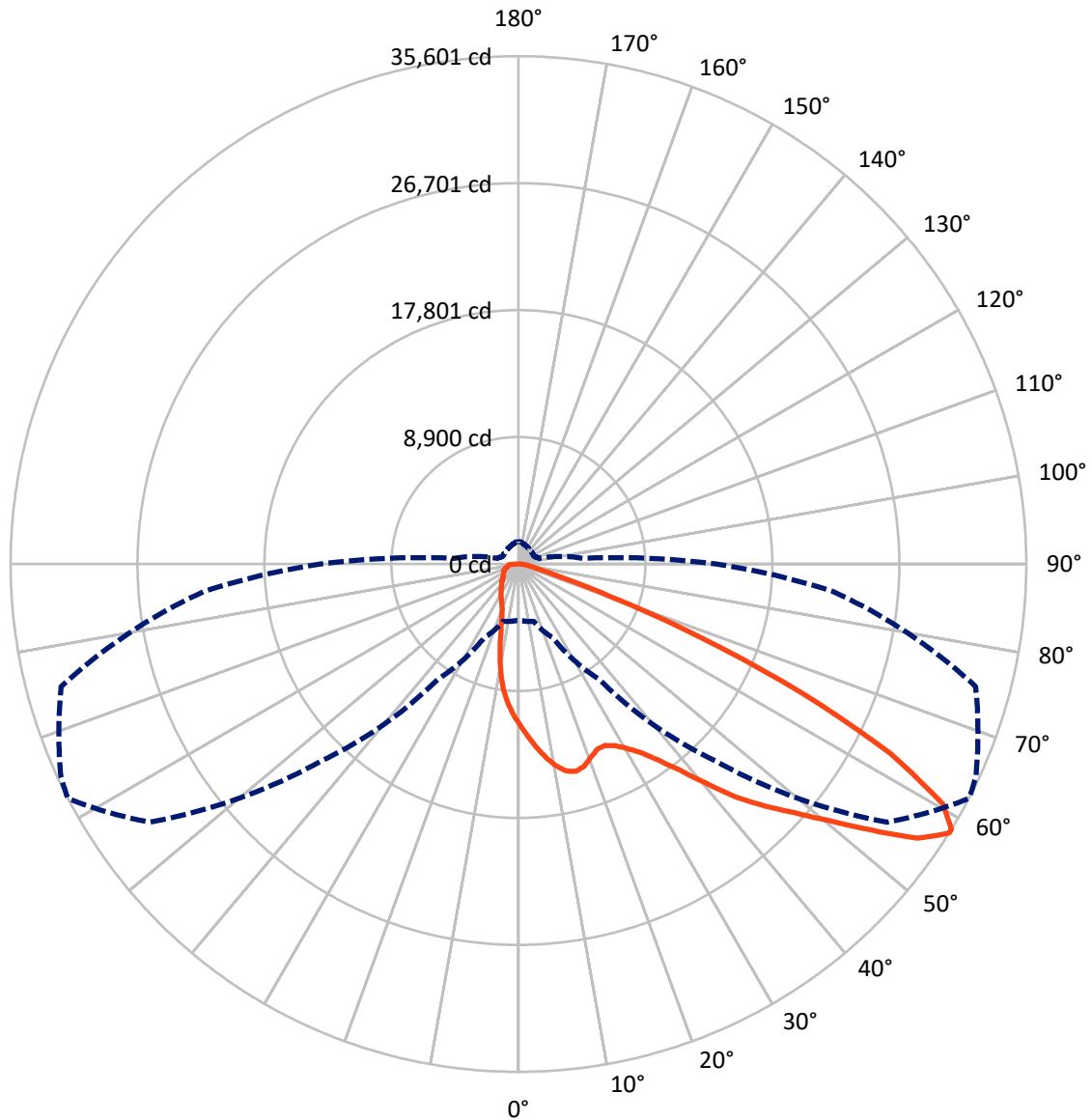
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6462.6	0.0	6462.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	35914.1	0.0	35914.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	42376.7	0.0	42376.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.7	2.4
10°-20°	2573.4	6.1
20°-30°	4159.9	9.8
30°-40°	6603.8	15.6
40°-50°	9662.8	22.8
50°-60°	10106.5	23.8
60°-70°	5970.9	14.1
70°-80°	1682.0	4.0
80°-90°	610.7	1.4
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°	42376.7	100.0
0°-180°	42376.7	100.0



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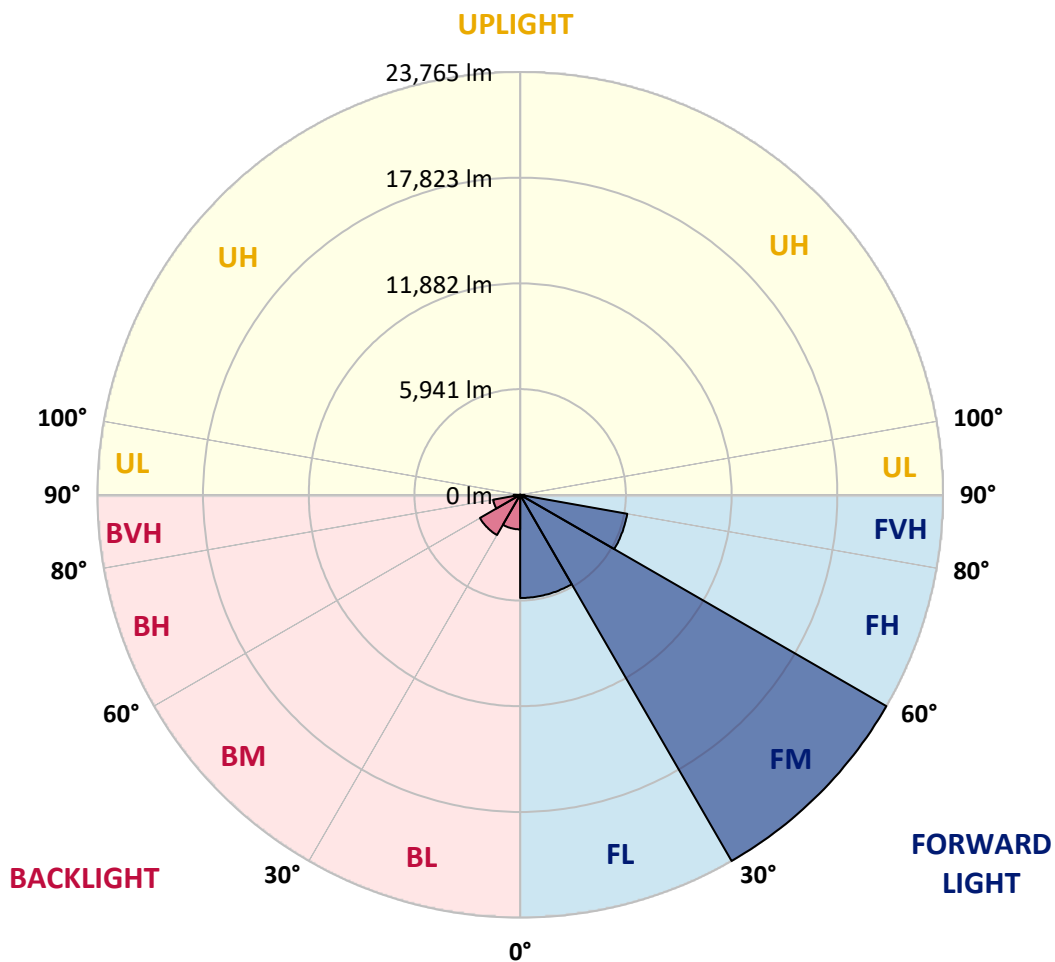
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5797.7	13.7			
FM	(30°-60°)	23764.6	56.1			
FH	(60°-80°)	6110.9	14.4			G3/7500
FVH	(80°-90°)	240.9	0.6			G3/500
BL	(0°-30°)	1942.3	4.6	B3/2500		
BM	(30°-60°)	2608.5	6.2	B3/5000		
BH	(60°-80°)	1542.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	369.8	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5
2.5°	12862.9	12759.1	12693.3	12635.4	12559.6	12397.9	12180.4	12042.7	11972.9	11735.4	11454.1
5°	14124.0	14032.2	13964.4	13886.6	13750.9	13497.4	13146.2	12866.9	12729.2	12254.2	11691.5
7.5°	13828.7	13866.6	13984.3	14189.9	14365.5	14331.5	14018.3	13663.1	13481.5	12821.0	11966.9
10°	12048.7	12114.6	12318.1	12799.0	13577.3	14375.4	14618.9	14373.4	14189.9	13381.7	12250.3
12.5°	11691.5	11689.5	11705.5	11833.2	12296.2	13419.6	14638.8	14886.3	14776.5	13916.5	12539.6
15°	11837.2	11841.2	11829.2	11883.1	12026.8	12471.8	14028.2	15083.8	15161.7	14455.3	12838.9
17.5°	12220.3	12210.3	12164.5	12164.5	12216.3	12389.9	13309.9	14900.3	15259.4	14932.2	13102.3
20°	12862.9	12817.0	12695.3	12583.5	12527.6	12621.4	13014.5	14477.2	15089.8	15349.2	13319.8
22.5°	13641.1	13605.2	13407.6	13168.2	12974.6	12972.6	13166.2	14108.1	14796.5	15742.3	13503.4
25°	14646.8	14589.0	14295.6	13912.5	13573.3	13443.6	13497.4	14090.1	14636.9	16169.4	13667.0
27.5°	15828.2	15722.4	15375.2	14822.4	14323.6	14062.2	13984.3	14415.4	14782.5	16698.2	13894.5
30°	17260.9	17139.2	16694.2	15973.8	15269.4	14840.4	14674.8	14992.0	15265.4	17342.7	14259.7
32.5°	18891.2	18715.6	18200.8	17406.6	16480.7	15826.2	15556.8	15754.3	15971.8	18119.0	14716.7
35°	21144.1	20934.6	20190.3	19094.8	18049.1	17149.2	16718.1	16861.8	17073.3	19276.3	15377.2
37.5°	22680.6	22586.8	22092.0	21062.3	19924.9	18889.2	18222.7	18306.5	18426.3	20723.1	16223.3
40°	22666.7	22704.6	22714.6	22724.5	21950.3	20958.5	20242.2	20154.4	20130.4	22311.5	17185.1
42.5°	21531.2	21686.9	22189.7	23209.4	23680.4	23225.4	22568.9	22315.5	22189.7	24183.2	18204.8
45°	19793.2	19877.0	20818.9	22810.3	24566.4	25470.3	24973.4	24175.3	23947.8	25903.3	19050.9
47.5°	18897.2	18989.0	19581.7	21752.7	24556.4	27284.2	27571.6	26051.0	25643.9	27400.0	19781.2
50°	16764.0	16955.6	17701.9	19912.9	23660.4	28118.3	30287.4	28285.9	27443.9	28856.7	20513.5
52.5°	12846.9	13142.2	13978.3	16887.8	21387.6	27705.3	32460.5	30995.8	29806.5	30365.2	21142.1
55°	8103.6	8323.2	9025.6	11927.0	17109.3	25556.1	33284.6	33927.2	32869.6	31794.0	21686.9
57.5°	4406.0	4503.8	4767.2	6585.1	11128.8	20804.9	32083.3	35595.4	35156.4	33007.3	22098.0
58°	3943.1	4008.9	4172.6	5707.1	9869.6	19505.8	31550.6	35601.4	35381.9	33184.8	22129.9
60°	2925.4	2891.5	2745.8	3256.6	5493.6	13475.5	28329.8	34176.6	34821.1	33402.4	21974.2
62.5°	2570.2	2488.4	2191.0	2157.1	2671.9	6207.9	21676.9	29275.7	30798.3	32161.2	21028.4
65°	2414.5	2326.7	1943.6	1819.9	1927.6	2626.1	12769.1	21956.3	23866.0	28397.7	18609.9
67.5°	2298.8	2185.1	1786.0	1616.3	1624.3	1736.1	5118.4	13828.7	15977.8	21561.2	14475.2
70°	2187.0	2063.3	1652.3	1456.7	1410.8	1372.9	2035.4	6922.3	8871.9	13619.2	9229.1
72.5°	2067.3	1945.6	1534.5	1331.0	1241.2	1115.5	1329.0	2831.6	3955.0	6443.4	4186.5
75°	1893.7	1784.0	1416.8	1219.2	1091.5	923.9	1003.7	1478.7	1774.0	2566.2	2017.4
77.5°	1680.2	1590.4	1285.1	1127.4	967.8	750.3	772.3	1025.7	1137.4	1468.7	1199.3
80°	1207.3	1239.2	1143.4	1013.7	862.0	608.6	592.7	748.3	808.2	943.9	780.2
82.5°	848.1	866.0	945.9	828.1	712.4	478.9	437.0	526.8	562.7	620.6	421.0
85°	584.7	564.7	648.5	576.7	514.8	319.3	299.3	357.2	379.1	385.1	217.5
87.5°	351.2	351.2	375.2	309.3	277.4	165.6	161.6	203.5	217.5	207.5	119.7
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°	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5	11256.5
2.5°	11286.4	11144.8	10843.4	10602.0	10296.7	9979.4	9801.8	9612.2	9482.5	9388.7	9538.4
5°	11372.2	11082.9	10460.3	9869.6	9217.1	8538.7	8023.8	7544.9	7211.7	7004.1	7199.7
7.5°	11507.9	11062.9	10071.2	9061.5	7890.1	6760.7	5751.0	5118.4	4749.2	4567.7	4681.4
10°	11663.6	11031.0	9614.2	7966.0	6289.8	4867.0	4112.7	3857.3	3773.5	3739.5	3755.5
12.5°	11793.3	10963.2	9053.5	6641.0	4723.3	3843.3	3625.8	3619.8	3637.8	3641.8	3647.7
15°	11885.1	10863.4	8221.4	5260.1	3777.4	3502.1	3490.1	3526.0	3559.9	3573.9	3581.9
17.5°	11946.9	10657.9	7281.5	4158.6	3384.3	3336.4	3364.4	3410.3	3446.2	3456.2	3464.2
20°	11941.0	10356.5	6162.0	3468.1	3170.8	3170.8	3218.7	3254.6	3256.6	3244.7	3250.6
22.5°	11879.1	9943.5	5076.5	3101.0	2981.2	3015.2	3063.1	3029.1	2889.5	2797.7	2803.7
25°	11775.3	9450.6	4146.6	2867.5	2805.6	2865.5	2851.5	2596.1	2396.6	2306.8	2306.8
27.5°	11683.5	8867.9	3432.2	2664.0	2630.0	2703.9	2456.4	2225.0	2141.2	2099.2	2085.3
30°	11617.7	8239.3	2955.3	2468.4	2464.4	2410.5	2131.2	2067.3	2053.3	2019.4	2007.5
32.5°	11633.7	7602.8	2650.0	2296.8	2310.8	2063.3	1975.5	1989.5	1977.5	1941.6	1925.6
35°	11765.4	6998.2	2450.5	2141.2	2099.2	1863.8	1883.7	1909.7	1905.7	1855.8	1839.8
37.5°	12000.8	6425.4	2318.7	2011.4	1831.9	1764.0	1795.9	1835.8	1825.9	1791.9	1780.0
40°	12248.3	5886.7	2211.0	1909.7	1674.2	1696.2	1724.1	1746.0	1756.0	1766.0	1758.0
42.5°	12489.7	5323.9	2079.3	1805.9	1608.4	1632.3	1644.3	1666.2	1720.1	1758.0	1756.0
45°	12633.4	4795.1	1943.6	1658.2	1556.5	1570.4	1562.5	1606.4	1672.2	1734.1	1736.1
47.5°	12793.0	4384.1	1835.8	1522.6	1506.6	1516.6	1492.6	1536.5	1596.4	1672.2	1680.2
50°	12986.6	4138.6	1750.0	1414.8	1438.7	1438.7	1432.8	1472.7	1556.5	1644.3	1660.2
52.5°	13206.1	4090.7	1678.2	1337.0	1370.9	1368.9	1374.9	1434.8	1526.5	1612.3	1626.3
55°	13473.5	4220.4	1600.4	1279.1	1305.0	1313.0	1333.0	1400.8	1478.7	1576.4	1582.4
57.5°	13784.8	4483.8	1538.5	1233.2	1245.2	1271.1	1303.0	1364.9	1448.7	1556.5	1562.5
58°	13836.7	4539.7	1528.5	1229.2	1233.2	1263.1	1299.1	1358.9	1442.7	1560.5	1566.5
60°	13838.7	4725.3	1506.6	1211.3	1187.3	1237.2	1277.1	1337.0	1432.8	1574.4	1588.4
62.5°	13347.8	4723.3	1490.6	1185.3	1139.4	1201.3	1247.2	1317.0	1422.8	1608.4	1636.3
65°	11753.4	4292.3	1414.8	1145.4	1101.5	1169.4	1221.2	1303.0	1450.7	1756.0	1774.0
67.5°	9193.2	3518.0	1273.1	1089.5	1051.6	1137.4	1205.3	1301.1	1480.6	1789.9	1801.9
70°	6078.2	2632.0	1117.5	1025.7	999.7	1099.5	1213.3	1368.9	1446.7	1718.1	1686.2
72.5°	3154.9	1847.8	991.8	945.9	939.9	1065.6	1329.0	1360.9	1412.8	1616.3	1576.4
75°	1656.2	1283.1	882.0	858.1	868.0	1057.6	1568.4	1325.0	1368.9	1546.5	1622.3
77.5°	1013.7	1035.7	788.2	778.2	798.2	1033.7	1566.5	1279.1	1305.0	1422.8	1506.6
80°	678.5	840.1	716.4	718.4	732.3	945.9	1406.8	1207.3	1227.2	1345.0	1430.8
82.5°	429.0	496.9	650.5	684.4	666.5	780.2	1195.3	1099.5	1127.4	1538.5	1626.3
85°	217.5	311.3	564.7	658.5	600.6	546.8	969.8	963.8	977.8	1109.5	1159.4
87.5°	99.8	171.6	441.0	574.7	453.0	341.2	704.4	714.4	770.3	788.2	788.2
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)