

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: P300338

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300338
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-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47178.1 lumens
Efficiency: N/A
Efficacy: 106.0 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

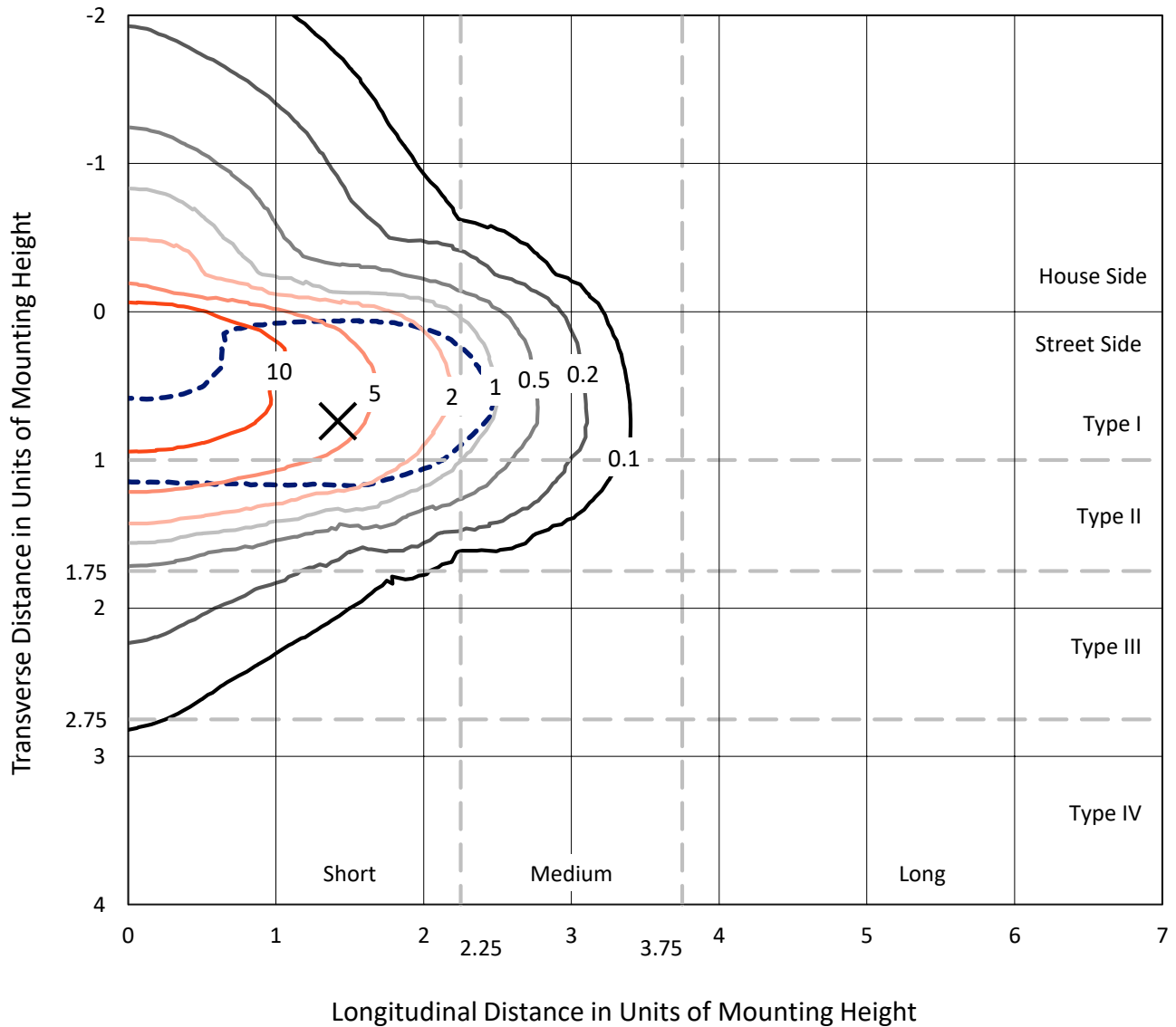
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

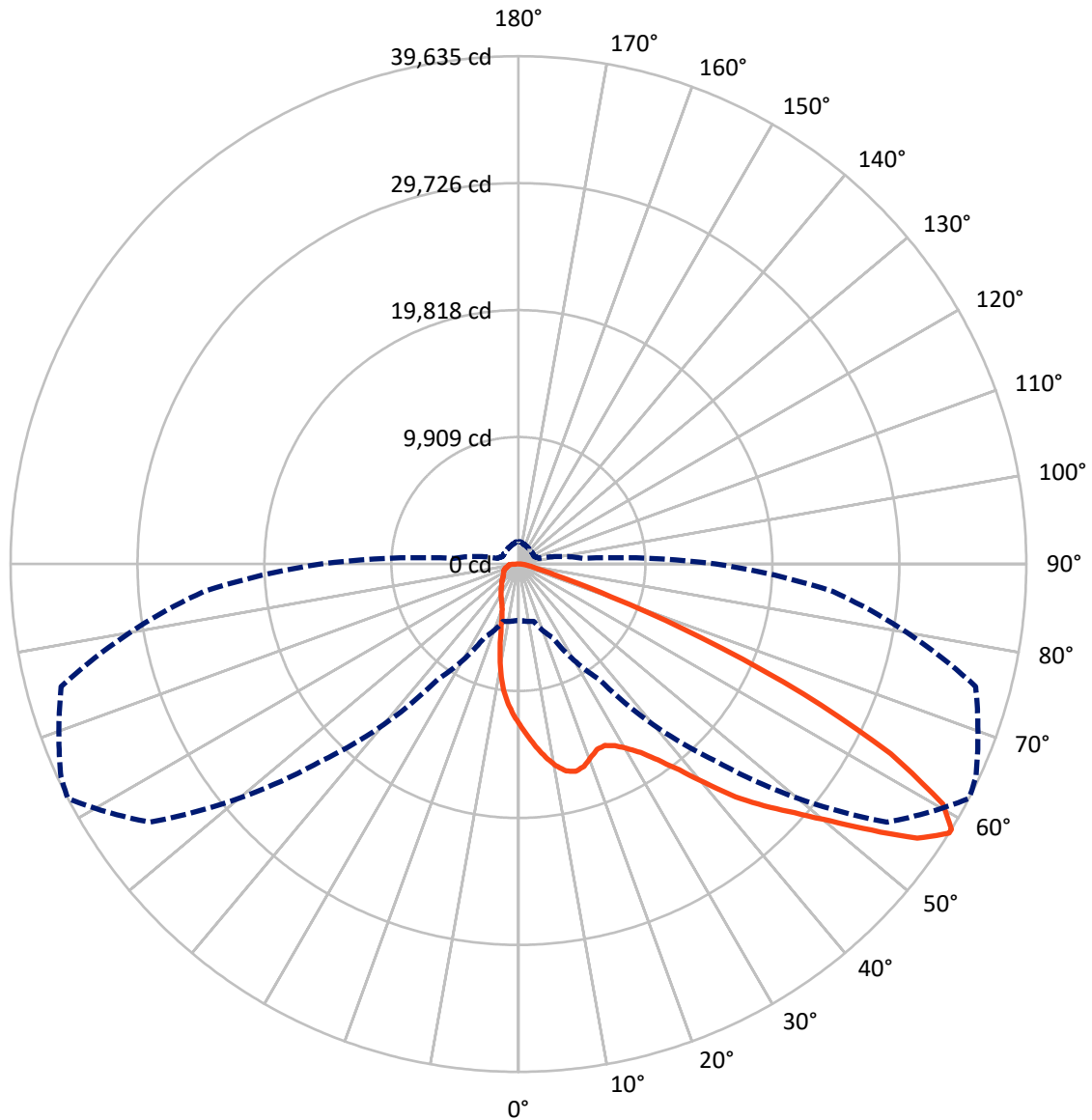
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17 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	7194.8	0.0	7194.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	39983.2	0.0	39983.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	47178.1	0.0	47178.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1120.8	2.4
10°-20°	2864.9	6.1
20°-30°	4631.2	9.8
30°-40°	7352.1	15.6
40°-50°	10757.6	22.8
50°-60°	11251.5	23.8
60°-70°	6647.4	14.1
70°-80°	1872.6	4.0
80°-90°	679.9	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°	47178.1	100.0
0°-180°	47178.1	100.0



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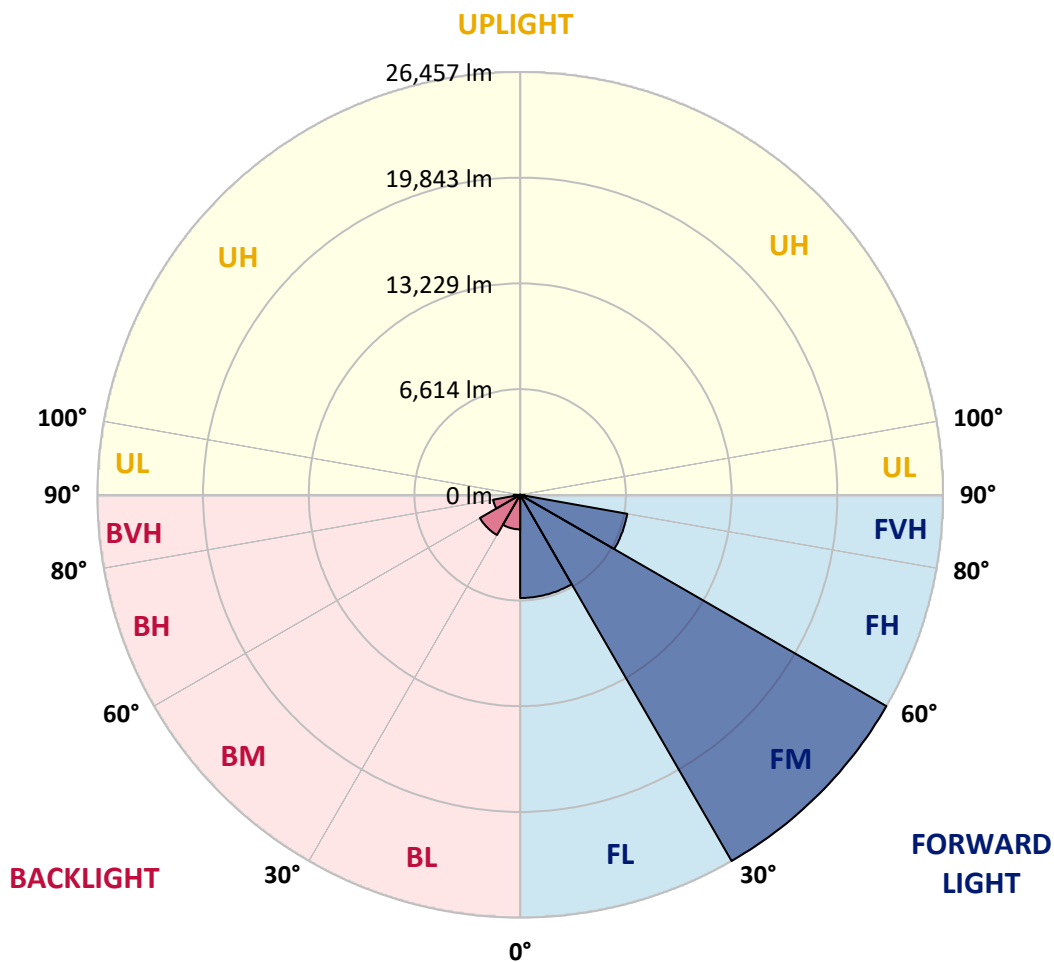
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6454.5	13.7			
FM	(30°-60°)	26457.2	56.1			
FH	(60°-80°)	6803.3	14.4			G3/7500
FVH	(80°-90°)	268.2	0.6			G3/500
BL	(0°-30°)	2162.4	4.6	B3/2500		
BM	(30°-60°)	2904.0	6.2	B3/5000		
BH	(60°-80°)	1716.8	3.6	B3/2500		G3/2500
BVH	(80°-90°)	411.6	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°	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9
2.5°	14320.3	14204.7	14131.4	14067.0	13982.6	13802.6	13560.5	13407.2	13329.4	13065.1	12751.8
5°	15724.3	15622.1	15546.6	15459.9	15308.8	15026.7	14635.7	14324.7	14171.4	13642.7	13016.2
7.5°	15395.5	15437.7	15568.8	15797.6	15993.1	15955.3	15606.5	15211.1	15008.9	14273.6	13322.8
10°	13413.8	13487.2	13713.8	14249.2	15115.6	16004.2	16275.2	16002.0	15797.6	14897.9	13638.2
12.5°	13016.2	13014.0	13031.7	13173.9	13689.3	14940.1	16297.4	16572.9	16450.7	15493.2	13960.4
15°	13178.4	13182.8	13169.5	13229.5	13389.4	13884.8	15617.6	16792.9	16879.5	16093.1	14293.6
17.5°	13604.9	13593.8	13542.7	13542.7	13600.5	13793.7	14817.9	16588.5	16988.4	16624.0	14586.8
20°	14320.3	14269.2	14133.6	14009.2	13947.0	14051.4	14489.1	16117.5	16799.5	17088.3	14829.0
22.5°	15186.7	15146.7	14926.7	14660.2	14444.7	14442.4	14657.9	15706.5	16473.0	17526.0	15033.4
25°	16306.3	16241.9	15915.3	15488.8	15111.1	14966.7	15026.7	15686.5	16295.2	18001.4	15215.5
27.5°	17621.5	17503.8	17117.2	16501.8	15946.4	15655.4	15568.8	16048.6	16457.4	18590.1	15468.8
30°	19216.6	19081.1	18585.7	17783.7	16999.5	16521.8	16337.4	16690.7	16995.0	19307.7	15875.4
32.5°	21031.6	20836.1	20263.0	19378.8	18348.0	17619.3	17319.4	17539.3	17781.5	20171.9	16384.1
35°	23539.8	23306.5	22477.9	21258.2	20094.1	19092.2	18612.3	18772.3	19007.8	21460.4	17119.4
37.5°	25250.4	25146.0	24595.0	23448.7	22182.4	21029.4	20287.4	20380.7	20514.0	23071.0	18061.4
40°	25234.8	25277.0	25288.1	25299.3	24437.3	23333.2	22535.6	22437.9	22411.2	24839.4	19132.2
42.5°	23970.8	24144.0	24703.9	25839.1	26363.4	25856.9	25126.0	24843.8	24703.9	26923.2	20267.4
45°	22035.8	22129.1	23177.7	25394.8	27349.8	28356.1	27803.0	26914.3	26661.1	28838.2	21209.3
47.5°	21038.3	21140.5	21800.3	24217.4	27338.7	30375.5	30695.5	29002.6	28549.4	30504.4	22022.4
50°	18663.4	18876.7	19707.6	22169.1	26341.2	31304.2	33719.0	31490.8	30553.3	32126.1	22837.8
52.5°	14302.5	14631.3	15562.1	18801.2	23810.8	30844.3	36138.3	34507.7	33183.6	33805.7	23537.6
55°	9021.8	9266.2	10048.2	13278.3	19047.8	28451.7	37055.8	37771.2	36593.7	35396.3	24144.0
57.5°	4905.2	5014.1	5307.3	7331.2	12389.7	23162.1	35718.4	39628.4	39139.6	36747.0	24601.7
58°	4389.8	4463.1	4645.3	6353.7	10987.9	21715.9	35125.3	39635.1	39390.7	36944.7	24637.2
60°	3256.8	3219.1	3056.9	3625.6	6116.0	15002.3	31539.7	38048.9	38766.4	37186.9	24463.9
62.5°	2861.4	2770.3	2439.3	2401.5	2974.7	6911.3	24132.9	32592.7	34287.7	35805.1	23410.9
65°	2688.1	2590.4	2163.8	2026.1	2146.0	2923.6	14215.8	24444.0	26570.0	31615.2	20718.4
67.5°	2559.3	2432.6	1988.3	1799.5	1808.4	1932.8	5698.3	15395.5	17788.1	24004.1	16115.3
70°	2434.8	2297.1	1839.5	1621.7	1570.7	1528.4	2266.0	7706.6	9877.1	15162.2	10274.8
72.5°	2301.5	2166.0	1708.4	1481.8	1381.8	1241.9	1479.6	3152.4	4403.2	7173.5	4660.9
75°	2108.3	1986.1	1577.3	1357.4	1215.2	1028.6	1117.5	1646.2	1975.0	2856.9	2246.0
77.5°	1870.6	1770.6	1430.7	1255.2	1077.5	835.3	859.7	1141.9	1266.3	1635.1	1335.2
80°	1344.1	1379.6	1273.0	1128.6	959.7	677.6	659.8	833.1	899.7	1050.8	868.6
82.5°	944.2	964.2	1053.0	922.0	793.1	533.2	486.5	586.5	626.5	690.9	468.8
85°	650.9	628.7	722.0	642.0	573.2	355.5	333.2	397.7	422.1	428.8	242.2
87.5°	391.0	391.0	417.7	344.3	308.8	184.4	179.9	226.6	242.2	231.0	133.3
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°	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9	12531.9
2.5°	12565.2	12407.5	12072.0	11803.2	11463.3	11110.1	10912.4	10701.3	10556.9	10452.5	10619.1
5°	12660.7	12338.6	11645.5	10987.9	10261.4	9506.1	8932.9	8399.8	8028.8	7797.7	8015.4
7.5°	12811.8	12316.4	11212.3	10088.2	8784.1	7526.7	6402.6	5698.3	5287.3	5085.2	5211.8
10°	12985.1	12280.8	10703.5	8868.5	7002.4	5418.4	4578.7	4294.3	4201.0	4163.2	4181.0
12.5°	13129.5	12205.3	10079.3	7393.4	5258.5	4278.7	4036.6	4029.9	4049.9	4054.4	4061.0
15°	13231.7	12094.2	9152.9	5856.1	4205.4	3898.9	3885.5	3925.5	3963.3	3978.8	3987.7
17.5°	13300.5	11865.4	8106.5	4629.8	3767.8	3714.5	3745.6	3796.7	3836.7	3847.8	3856.6
20°	13293.9	11530.0	6860.2	3861.1	3530.1	3530.1	3583.4	3623.4	3625.6	3612.3	3618.9
22.5°	13225.0	11070.1	5651.7	3452.3	3319.0	3356.8	3410.1	3372.3	3216.8	3114.6	3121.3
25°	13109.5	10521.4	4616.4	3192.4	3123.5	3190.2	3174.6	2890.3	2668.1	2568.1	2568.1
27.5°	13007.3	9872.7	3821.1	2965.8	2928.0	3010.2	2734.8	2477.1	2383.7	2337.1	2321.5
30°	12934.0	9172.9	3290.1	2748.1	2743.6	2683.7	2372.6	2301.5	2286.0	2248.2	2234.9
32.5°	12951.8	8464.2	2950.2	2557.0	2572.6	2297.1	2199.4	2214.9	2201.6	2161.6	2143.8
35°	13098.4	7791.1	2728.1	2383.7	2337.1	2074.9	2097.2	2126.0	2121.6	2066.1	2048.3
37.5°	13360.5	7153.5	2581.5	2239.3	2039.4	1963.9	1999.4	2043.8	2032.7	1995.0	1981.6
40°	13636.0	6553.6	2461.5	2126.0	1863.9	1888.3	1919.4	1943.9	1955.0	1966.1	1957.2
42.5°	13904.8	5927.2	2314.9	2010.5	1790.6	1817.2	1830.6	1855.0	1915.0	1957.2	1955.0
45°	14064.8	5338.4	2163.8	1846.1	1732.8	1748.4	1739.5	1788.4	1861.7	1930.5	1932.8
47.5°	14242.5	4880.8	2043.8	1695.1	1677.3	1688.4	1661.7	1710.6	1777.3	1861.7	1870.6
50°	14458.0	4607.5	1948.3	1575.1	1601.8	1601.8	1595.1	1639.5	1732.8	1830.6	1848.3
52.5°	14702.4	4554.2	1868.3	1488.5	1526.2	1524.0	1530.7	1597.3	1699.5	1795.0	1810.6
55°	15000.1	4698.6	1781.7	1424.0	1452.9	1461.8	1484.0	1559.5	1646.2	1755.0	1761.7
57.5°	15346.6	4991.9	1712.8	1372.9	1386.3	1415.1	1450.7	1519.6	1612.9	1732.8	1739.5
58°	15404.4	5054.1	1701.7	1368.5	1372.9	1406.3	1446.2	1512.9	1606.2	1737.3	1743.9
60°	15406.6	5260.7	1677.3	1348.5	1321.8	1377.4	1421.8	1488.5	1595.1	1752.8	1768.4
62.5°	14860.1	5258.5	1659.5	1319.6	1268.5	1337.4	1388.5	1466.2	1584.0	1790.6	1821.7
65°	13085.1	4778.6	1575.1	1275.2	1226.3	1301.8	1359.6	1450.7	1615.1	1955.0	1975.0
67.5°	10234.8	3916.6	1417.4	1213.0	1170.8	1266.3	1341.8	1448.5	1648.4	1992.7	2006.1
70°	6766.9	2930.3	1244.1	1141.9	1113.0	1224.1	1350.7	1524.0	1610.6	1912.8	1877.2
72.5°	3512.3	2057.2	1104.1	1053.0	1046.4	1186.3	1479.6	1515.1	1572.9	1799.5	1755.0
75°	1843.9	1428.5	981.9	955.3	966.4	1177.4	1746.2	1475.1	1524.0	1721.7	1806.1
77.5°	1128.6	1153.0	877.5	866.4	888.6	1150.8	1743.9	1424.0	1452.9	1584.0	1677.3
80°	755.3	935.3	797.5	799.8	815.3	1053.0	1566.2	1344.1	1366.3	1497.3	1592.9
82.5°	477.6	553.2	724.2	762.0	742.0	868.6	1330.7	1224.1	1255.2	1712.8	1810.6
85°	242.2	346.6	628.7	733.1	668.7	608.7	1079.7	1073.0	1088.6	1235.2	1290.7
87.5°	111.1	191.1	491.0	639.8	504.3	379.9	784.2	795.3	857.5	877.5	877.5
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)