

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: P300332

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300332
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-07-LED-E1-AFL-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 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: 41638.3 lumens
Efficiency: N/A
Efficacy: 106.5 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

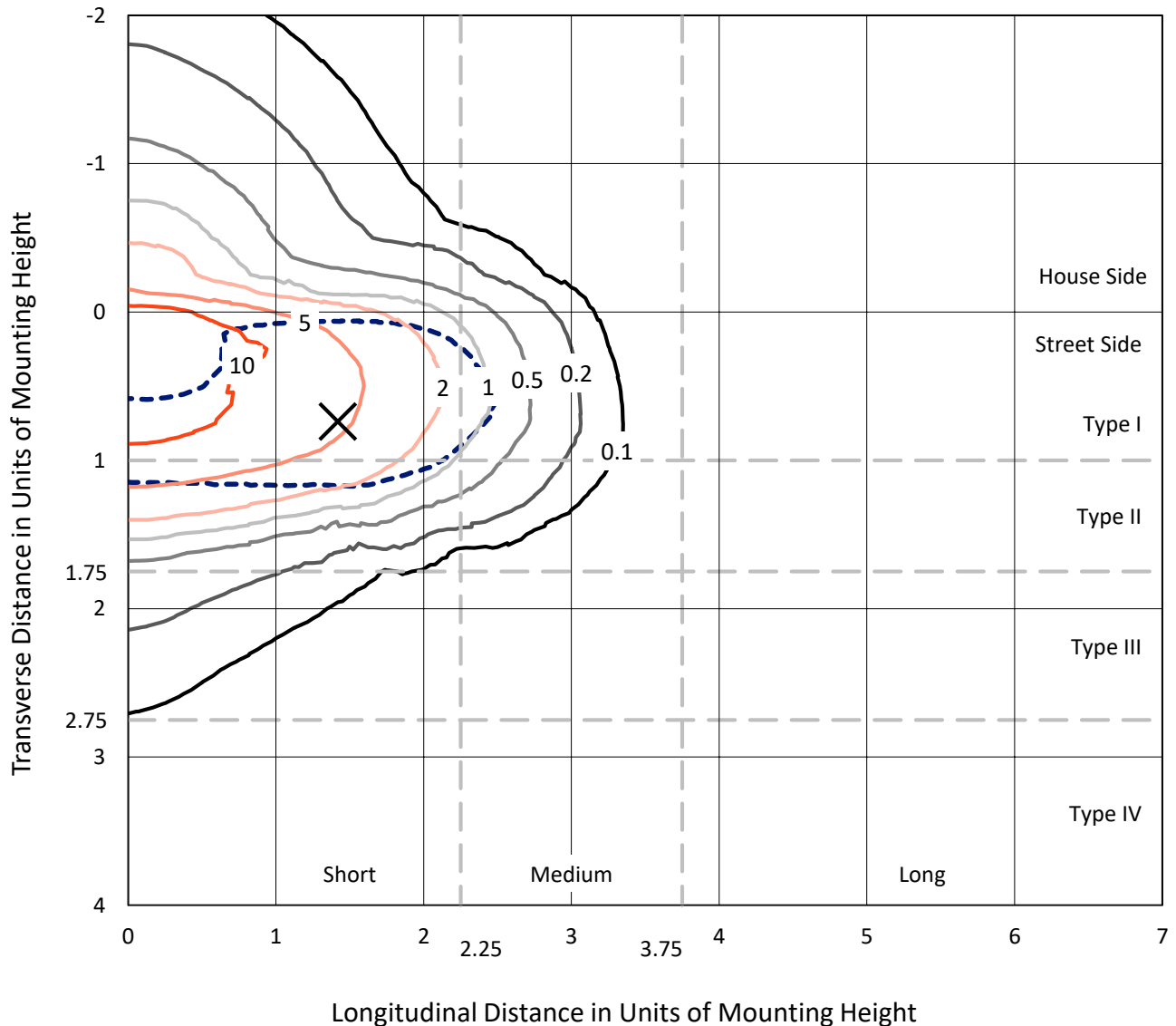
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

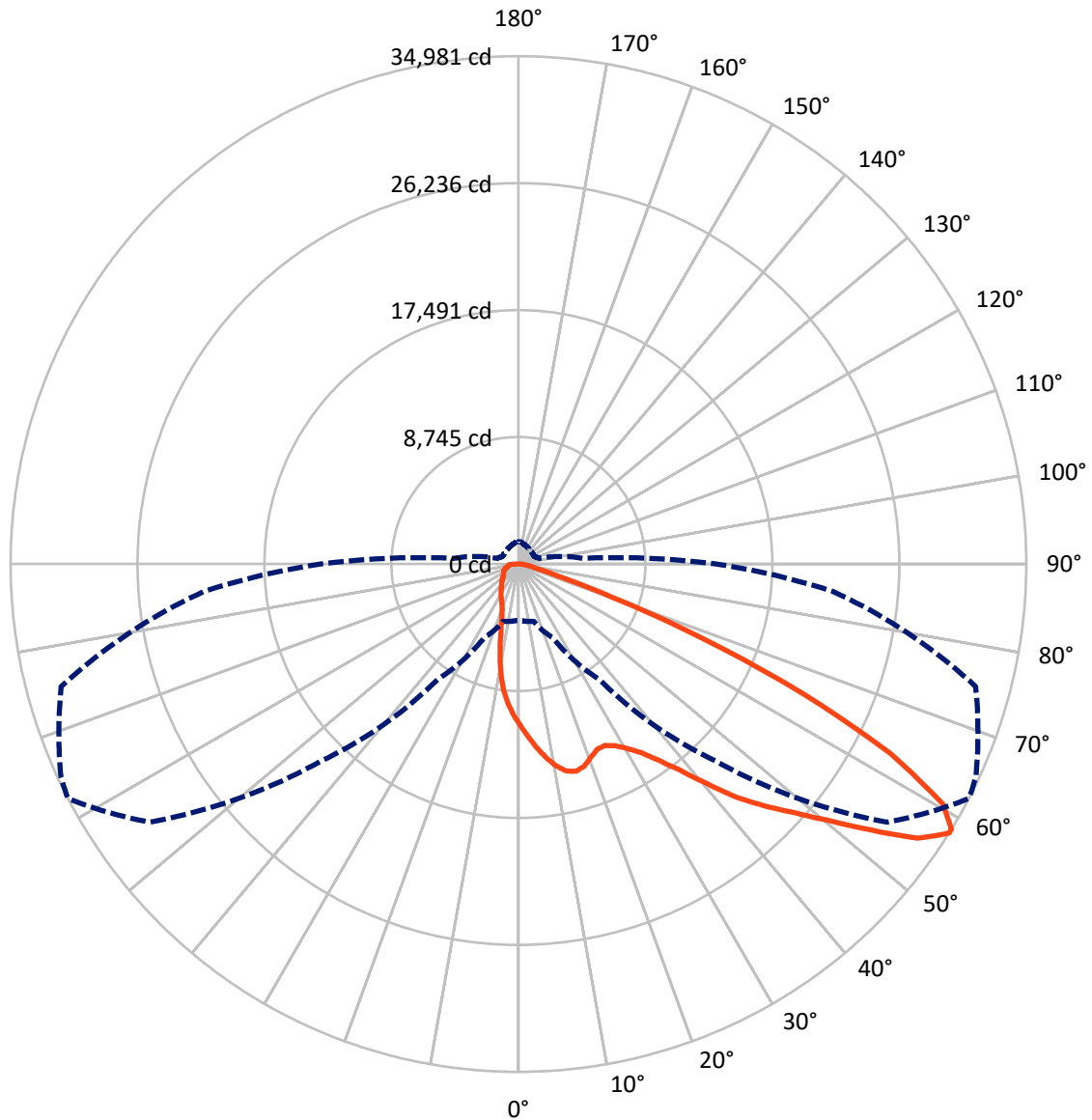
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 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	6350.0	0.0	6350.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	35288.3	0.0	35288.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	41638.3	0.0	41638.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.2	2.4
10°-20°	2528.5	6.1
20°-30°	4087.4	9.8
30°-40°	6488.8	15.6
40°-50°	9494.4	22.8
50°-60°	9930.4	23.8
60°-70°	5866.9	14.1
70°-80°	1652.7	4.0
80°-90°	600.0	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°	41638.3	100.0
0°-180°	41638.3	100.0



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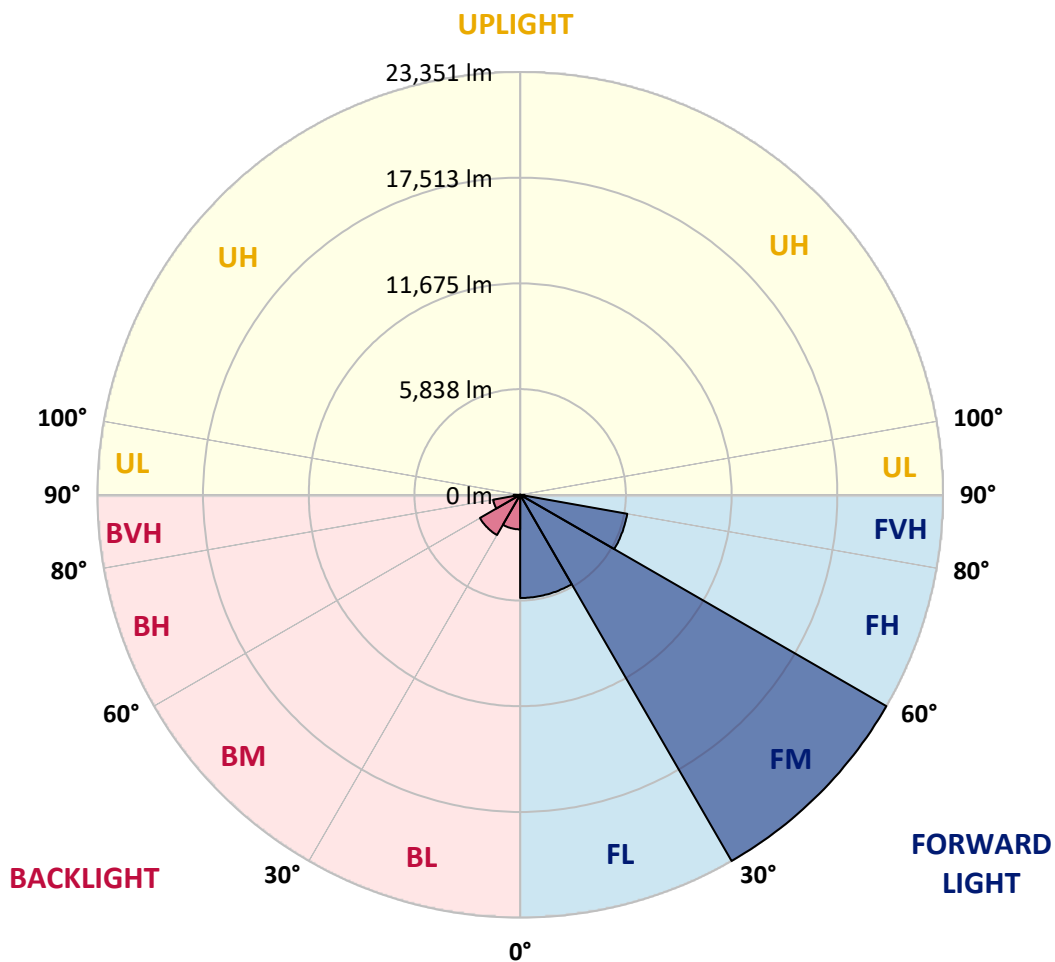
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5696.6	13.7			
FM	(30°-60°)	23350.5	56.1			
FH	(60°-80°)	6004.4	14.4			G3/7500
FVH	(80°-90°)	236.7	0.6			G3/500
BL	(0°-30°)	1908.5	4.6	B3/2500		
BM	(30°-60°)	2563.0	6.2	B3/5000		
BH	(60°-80°)	1515.2	3.6	B3/2500		G3/2500
BVH	(80°-90°)	363.3	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°	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4
2.5°	12638.7	12536.8	12472.1	12415.2	12340.7	12181.9	11968.2	11832.9	11764.3	11530.9	11254.5
5°	13877.9	13787.7	13721.0	13644.6	13511.3	13262.2	12917.2	12642.7	12507.4	12040.7	11487.8
7.5°	13587.7	13625.0	13740.7	13942.6	14115.2	14081.8	13774.0	13425.0	13246.6	12597.6	11758.4
10°	11838.8	11903.5	12103.5	12576.0	13340.7	14125.0	14364.2	14123.0	13942.6	13148.5	12036.8
12.5°	11487.8	11485.8	11501.5	11627.0	12081.9	13185.8	14383.8	14626.9	14519.1	13674.0	12321.1
15°	11630.9	11634.9	11623.1	11676.0	11817.2	12254.4	13783.8	14821.0	14897.5	14203.4	12615.2
17.5°	12007.4	11997.6	11952.5	11952.5	12003.5	12174.0	13077.9	14640.6	14993.5	14672.0	12874.0
20°	12638.7	12593.6	12474.0	12364.2	12309.3	12401.5	12787.7	14225.0	14826.9	15081.8	13087.7
22.5°	13403.4	13368.1	13174.0	12938.7	12748.5	12746.6	12936.8	13862.2	14538.7	15468.0	13268.1
25°	14391.6	14334.8	14046.5	13670.1	13336.7	13209.3	13262.2	13844.6	14381.8	15887.6	13428.9
27.5°	15552.4	15448.4	15107.3	14564.2	14074.0	13817.1	13740.7	14164.2	14524.9	16407.2	13652.4
30°	16960.1	16840.5	16403.3	15695.5	15003.4	14581.8	14419.1	14730.8	14999.4	17040.5	14011.2
32.5°	18562.0	18389.5	17883.6	17103.3	16193.5	15550.4	15285.7	15479.8	15693.5	17803.2	14460.2
35°	20775.7	20569.8	19838.5	18762.0	17734.6	16850.3	16426.8	16568.0	16775.8	18940.5	15109.2
37.5°	22285.4	22193.3	21707.0	20695.3	19577.7	18560.1	17905.2	17987.6	18105.2	20362.0	15940.6
40°	22271.7	22309.0	22318.8	22328.6	21567.8	20593.3	19889.4	19803.2	19779.6	21922.7	16885.6
42.5°	21156.1	21309.0	21803.1	22805.0	23267.7	22820.7	22175.6	21926.6	21803.1	23761.8	17887.6
45°	19448.3	19530.6	20456.1	22412.9	24138.3	25026.5	24538.3	23754.0	23530.5	25452.0	18718.9
47.5°	18567.9	18658.1	19240.4	21373.7	24128.5	26808.8	27091.1	25597.1	25197.1	26922.5	19436.5
50°	16471.9	16660.2	17393.5	19565.9	23248.1	27628.4	29759.7	27793.1	26965.6	28353.8	20156.1
52.5°	12623.1	12913.2	13734.8	16593.5	21014.9	27222.5	31894.9	30455.7	29287.1	29836.1	20773.7
55°	7962.4	8178.1	8868.3	11719.2	16811.1	25110.8	32704.6	33336.0	32296.8	31240.0	21309.0
57.5°	4329.2	4425.3	4684.1	6470.3	10934.9	20442.4	31524.3	34975.1	34543.8	32432.1	21712.9
58°	3874.4	3939.1	4099.8	5607.6	9697.7	19165.9	31000.8	34981.0	34765.3	32606.6	21744.3
60°	2874.4	2841.1	2697.9	3199.9	5397.8	13240.7	27836.2	33581.1	34214.4	32820.3	21591.3
62.5°	2525.4	2445.0	2152.9	2119.5	2625.4	6099.8	21299.2	28765.6	30261.6	31600.8	20662.0
65°	2372.5	2286.2	1909.7	1788.2	1894.0	2580.3	12546.6	21573.7	23450.1	27902.9	18285.6
67.5°	2258.7	2147.0	1754.8	1588.2	1596.0	1705.8	5029.2	13587.7	15699.4	21185.5	14223.0
70°	2148.9	2027.4	1623.5	1431.3	1386.2	1349.0	1999.9	6801.7	8717.3	13381.8	9068.3
72.5°	2031.3	1911.7	1507.8	1307.8	1219.6	1096.0	1305.8	2782.2	3886.1	6331.1	4113.6
75°	1860.7	1752.9	1392.1	1198.0	1072.5	907.8	986.2	1452.9	1743.1	2521.5	1982.3
77.5°	1650.9	1562.7	1262.7	1107.8	950.9	737.2	758.8	1007.8	1117.6	1443.1	1178.4
80°	1186.2	1217.6	1123.5	996.0	847.0	598.0	582.3	735.3	794.1	927.4	766.6
82.5°	833.3	850.9	929.4	813.7	700.0	470.6	429.4	517.6	552.9	609.8	413.7
85°	574.5	554.9	637.2	566.6	505.9	313.7	294.1	351.0	372.5	378.4	213.7
87.5°	345.1	345.1	368.6	303.9	272.5	162.7	158.8	200.0	213.7	203.9	117.6
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°	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4	11060.4
2.5°	11089.8	10950.6	10654.5	10417.3	10117.3	9805.5	9631.0	9444.7	9317.3	9225.1	9372.2
5°	11174.1	10889.8	10278.0	9697.7	9056.5	8389.9	7884.0	7413.4	7086.0	6882.1	7074.2
7.5°	11307.4	10870.2	9895.7	8903.6	7752.6	6642.9	5650.8	5029.2	4666.5	4488.1	4599.8
10°	11460.3	10838.8	9446.7	7827.2	6180.2	4782.2	4041.0	3790.1	3707.7	3674.4	3690.1
12.5°	11587.8	10772.1	8895.7	6525.2	4641.0	3776.3	3562.6	3556.7	3574.4	3578.3	3584.2
15°	11678.0	10674.1	8078.1	5168.4	3711.6	3441.0	3429.3	3464.6	3497.9	3511.6	3519.5
17.5°	11738.8	10472.2	7154.6	4086.1	3325.4	3278.3	3305.8	3350.9	3386.1	3395.9	3403.8
20°	11732.9	10176.1	6054.7	3407.7	3115.6	3115.6	3162.6	3197.9	3199.9	3188.1	3194.0
22.5°	11672.1	9770.2	4988.0	3046.9	2929.3	2962.6	3009.7	2976.4	2839.1	2748.9	2754.8
25°	11570.1	9285.9	4074.4	2817.5	2756.8	2815.6	2801.9	2550.9	2354.8	2266.6	2266.6
27.5°	11480.0	8713.4	3372.4	2617.5	2584.2	2656.8	2413.6	2186.2	2103.8	2062.7	2048.9
30°	11415.3	8095.8	2903.8	2425.4	2421.5	2368.5	2094.0	2031.3	2017.6	1984.2	1972.5
32.5°	11430.9	7470.3	2603.8	2256.8	2270.5	2027.4	1941.1	1954.8	1943.1	1907.8	1892.1
35°	11560.3	6876.2	2407.8	2103.8	2062.7	1831.3	1850.9	1876.4	1872.5	1823.5	1807.8
37.5°	11791.7	6313.5	2278.3	1976.4	1799.9	1733.3	1764.6	1803.9	1794.0	1760.7	1749.0
40°	12034.8	5784.1	2172.5	1876.4	1645.0	1666.6	1694.1	1715.6	1725.4	1735.2	1727.4
42.5°	12272.1	5231.2	2043.1	1774.4	1580.3	1603.9	1615.6	1637.2	1690.1	1727.4	1725.4
45°	12413.3	4711.6	1909.7	1629.3	1529.4	1543.1	1535.2	1578.4	1643.1	1703.9	1705.8
47.5°	12570.1	4307.7	1803.9	1496.0	1480.3	1490.1	1466.6	1509.7	1568.6	1643.1	1650.9
50°	12760.3	4066.5	1719.5	1390.1	1413.7	1413.7	1407.8	1447.0	1529.4	1615.6	1631.3
52.5°	12976.0	4019.5	1649.0	1313.7	1347.0	1345.0	1350.9	1409.8	1499.9	1584.3	1598.0
55°	13238.7	4146.9	1572.5	1256.8	1282.3	1290.1	1309.8	1376.4	1452.9	1549.0	1554.8
57.5°	13544.6	4405.7	1511.7	1211.7	1223.5	1249.0	1280.3	1341.1	1423.5	1529.4	1535.2
58°	13595.6	4460.6	1501.9	1207.8	1211.7	1241.1	1276.4	1335.2	1417.6	1533.3	1539.2
60°	13597.5	4643.0	1480.3	1190.2	1166.6	1215.6	1254.9	1313.7	1407.8	1547.0	1560.7
62.5°	13115.2	4641.0	1464.7	1164.7	1119.6	1180.3	1225.4	1294.1	1398.0	1580.3	1607.8
65°	11548.6	4217.5	1390.1	1125.4	1082.3	1149.0	1200.0	1280.3	1425.4	1725.4	1743.1
67.5°	9033.0	3456.7	1250.9	1070.5	1033.3	1117.6	1184.3	1278.4	1454.8	1758.8	1770.5
70°	5972.3	2586.2	1098.0	1007.8	982.3	1080.4	1192.1	1345.0	1421.5	1688.2	1656.8
72.5°	3099.9	1815.6	974.5	929.4	923.5	1047.0	1305.8	1337.2	1388.2	1588.2	1549.0
75°	1627.4	1260.7	866.6	843.1	852.9	1039.2	1541.1	1301.9	1345.0	1519.6	1594.1
77.5°	996.0	1017.6	774.5	764.7	784.3	1015.6	1539.2	1256.8	1282.3	1398.0	1480.3
80°	666.6	825.5	703.9	705.9	719.6	929.4	1382.3	1186.2	1205.8	1321.5	1405.8
82.5°	421.6	488.2	639.2	672.5	654.9	766.6	1174.5	1080.4	1107.8	1511.7	1598.0
85°	213.7	305.9	554.9	647.0	590.2	537.2	952.9	947.0	960.7	1090.2	1139.2
87.5°	98.0	168.6	433.3	564.7	445.1	335.3	692.1	701.9	756.8	774.5	774.5
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)