

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: P300344

Luminaire Tested: **GLNA-AF-09-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300344
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-09-LED-E1-AFL-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 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: 52627.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

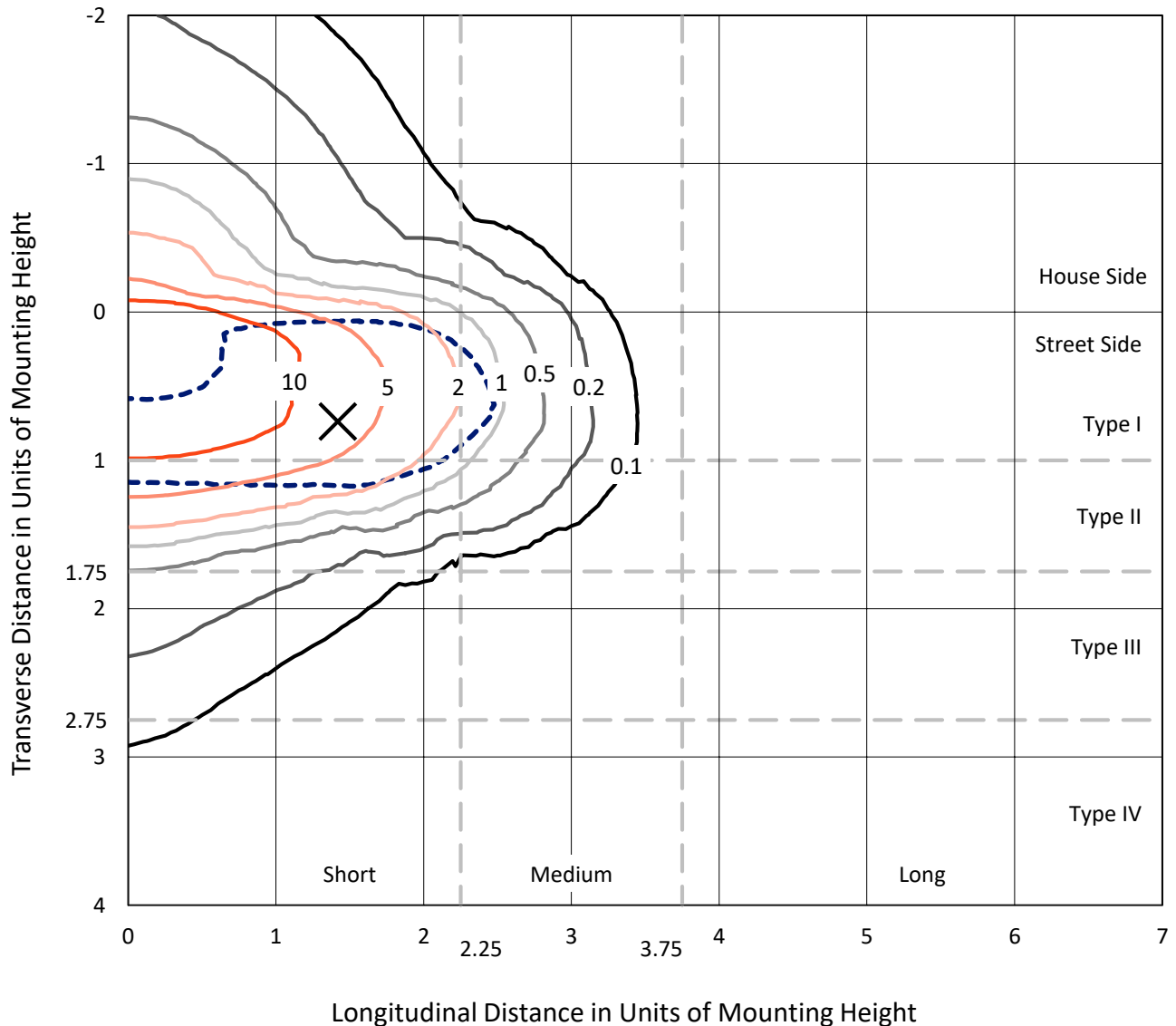
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

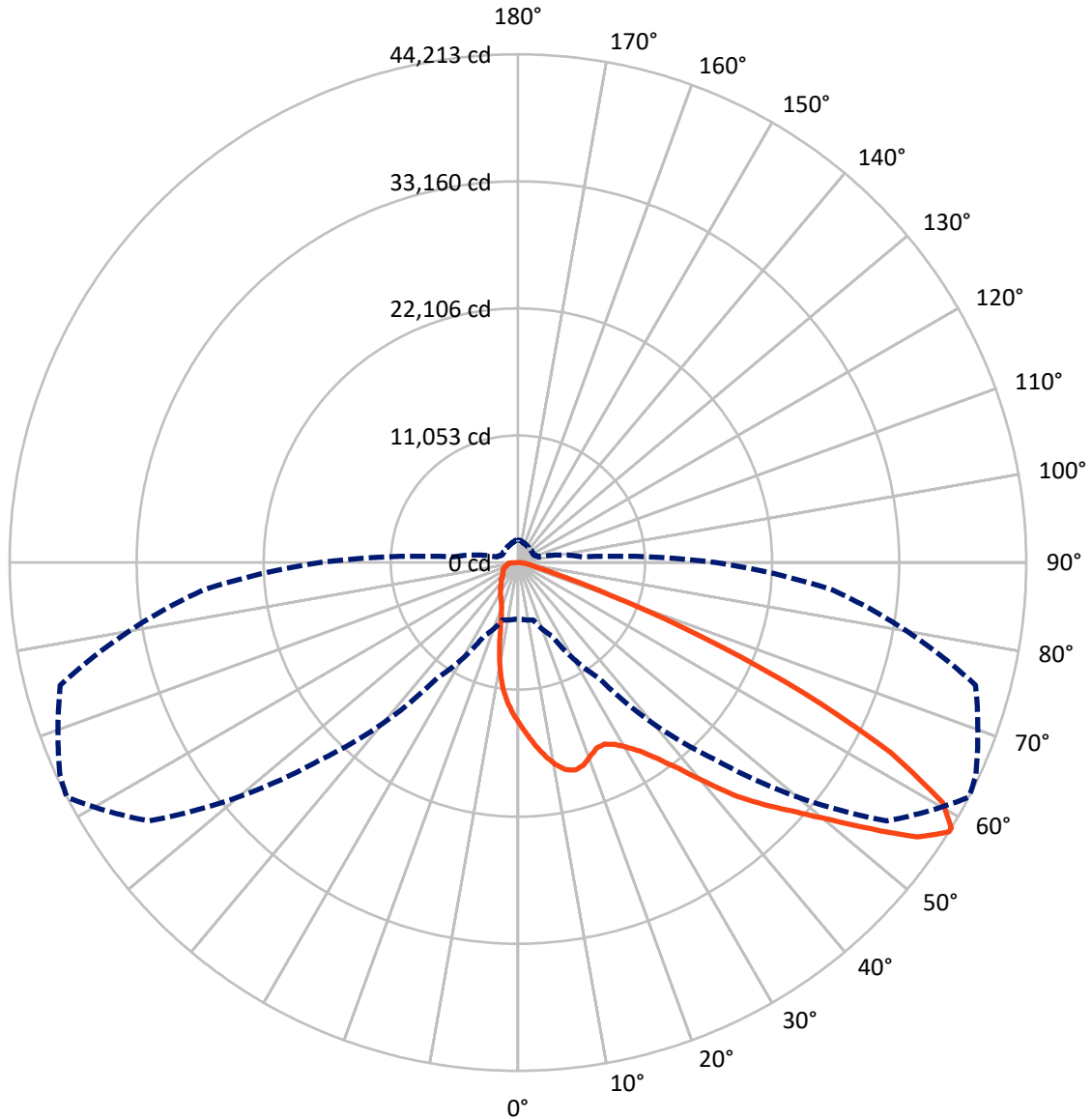
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.9 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	8025.8	0.0	8025.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	44601.3	0.0	44601.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	52627.1	0.0	52627.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1250.2	2.4
10°-20°	3195.8	6.1
20°-30°	5166.1	9.8
30°-40°	8201.2	15.6
40°-50°	12000.1	22.8
50°-60°	12551.1	23.8
60°-70°	7415.2	14.1
70°-80°	2088.9	4.0
80°-90°	758.4	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°	52627.1	100.0
0°-180°	52627.1	100.0



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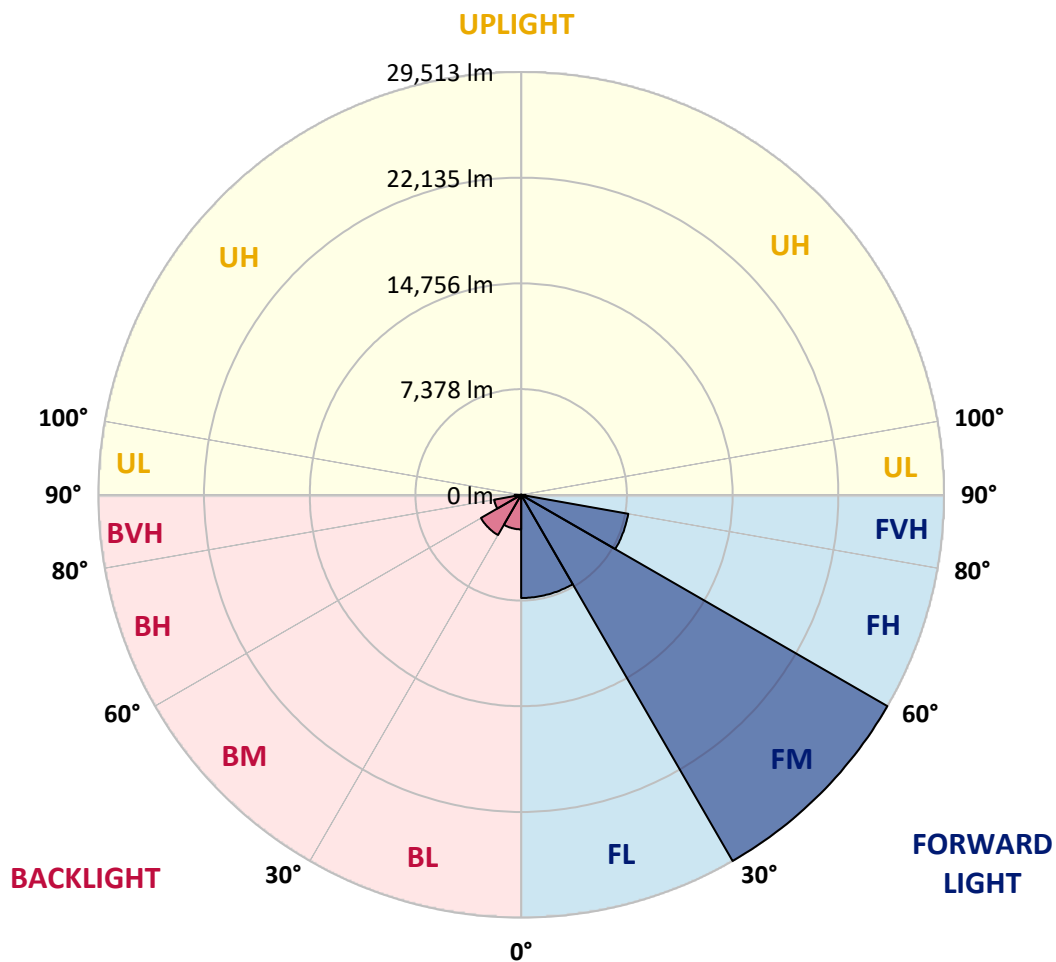
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7200.0	13.7			
FM	(30°-60°)	29513.0	56.1			
FH	(60°-80°)	7589.1	14.4			G4/12000
FVH	(80°-90°)	299.2	0.6			G3/500
BL	(0°-30°)	2412.2	4.6	B3/2500		
BM	(30°-60°)	3239.4	6.2	B3/5000		
BH	(60°-80°)	1915.0	3.6	B3/2500		G3/2500
BVH	(80°-90°)	459.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3
2.5°	15974.2	15845.4	15763.6	15691.7	15597.6	15396.8	15126.7	14955.7	14869.0	14574.1	14224.7
5°	17540.4	17426.4	17342.2	17245.5	17077.0	16762.3	16326.1	15979.2	15808.2	15218.4	14519.6
7.5°	17173.7	17220.7	17367.0	17622.2	17840.3	17798.2	17409.1	16968.0	16742.5	15922.2	14861.5
10°	14963.1	15044.9	15297.7	15894.9	16861.4	17852.7	18155.0	17850.2	17622.2	16618.6	15213.4
12.5°	14519.6	14517.1	14536.9	14695.5	15270.4	16665.6	18179.8	18487.1	18350.8	17282.7	15572.8
15°	14700.5	14705.4	14690.5	14757.5	14935.9	15488.5	17421.5	18732.4	18829.1	17951.8	15944.5
17.5°	15176.3	15163.9	15106.9	15106.9	15171.3	15386.9	16529.3	18504.4	18950.5	18544.1	16271.6
20°	15974.2	15917.2	15766.1	15627.3	15557.9	15674.4	16162.6	17979.1	18739.9	19062.0	16541.7
22.5°	16940.7	16896.1	16650.8	16353.4	16113.0	16110.5	16350.9	17520.6	18375.6	19550.2	16769.7
25°	18189.7	18117.8	17753.6	17277.7	16856.5	16695.4	16762.3	17498.3	18177.3	20080.5	16972.9
27.5°	19656.8	19525.4	19094.2	18407.8	17788.2	17463.6	17367.0	17902.2	18358.2	20737.3	17255.4
30°	21436.1	21284.9	20732.3	19837.7	18962.9	18430.1	18224.4	18618.4	18957.9	21537.7	17708.9
32.5°	23460.8	23242.7	22603.3	21617.0	20467.1	19654.3	19319.8	19565.1	19835.2	22501.7	18276.4
35°	26258.6	25998.4	25074.0	23713.5	22415.0	21297.3	20762.0	20940.5	21203.2	23939.0	19096.7
37.5°	28166.8	28050.3	27435.7	26157.0	24744.5	23458.3	22630.6	22734.7	22883.4	25735.7	20147.5
40°	28149.4	28196.5	28208.9	28221.3	27259.8	26028.1	25138.5	25029.4	24999.7	27708.3	21341.9
42.5°	26739.4	26932.7	27557.2	28823.5	29408.4	28843.3	28028.0	27713.3	27557.2	30032.8	22608.3
45°	24580.9	24685.0	25854.7	28327.9	30508.7	31631.3	31014.2	30022.9	29740.4	32169.0	23659.0
47.5°	23468.2	23582.2	24318.2	27014.4	30496.3	33883.9	34240.8	32352.4	31846.9	34027.6	24566.0
50°	20819.0	21056.9	21983.8	24729.6	29383.6	34919.8	37613.5	35128.0	34082.2	35836.7	25475.5
52.5°	15954.4	16321.2	17359.5	20972.7	26560.9	34406.8	40312.3	38493.3	37016.3	37710.2	26256.1
55°	10063.8	10336.4	11208.7	14812.0	21247.8	31737.8	41335.7	42133.7	40820.3	39484.6	26932.7
57.5°	5471.8	5593.2	5920.3	8177.9	13820.7	25837.3	39843.9	44205.5	43660.3	40991.3	27443.2
58°	4896.8	4978.6	5181.8	7087.5	12257.0	24224.0	39182.2	44212.9	43940.3	41211.8	27482.8
60°	3633.0	3590.9	3410.0	4044.4	6822.4	16735.0	35182.5	42443.5	43243.9	41482.0	27289.5
62.5°	3191.9	3090.3	2721.0	2678.9	3318.3	7709.6	26920.3	36357.1	38248.0	39940.5	26114.9
65°	2998.6	2889.5	2413.7	2260.1	2393.9	3261.3	15857.8	27267.2	29638.8	35266.7	23111.3
67.5°	2854.8	2713.6	2218.0	2007.3	2017.2	2156.0	6356.5	17173.7	19842.6	26776.5	17976.6
70°	2716.1	2562.4	2051.9	1809.1	1752.1	1705.0	2527.7	8596.7	11017.9	16913.5	11461.5
72.5°	2567.4	2416.2	1905.7	1652.9	1541.4	1385.3	1650.5	3516.5	4911.7	8002.0	5199.2
75°	2351.8	2215.5	1759.5	1514.2	1355.6	1147.4	1246.5	1836.3	2203.1	3186.9	2505.4
77.5°	2086.6	1975.1	1595.9	1400.2	1201.9	931.8	959.0	1273.8	1412.6	1823.9	1489.4
80°	1499.3	1538.9	1420.0	1258.9	1070.6	755.8	736.0	929.3	1003.7	1172.2	969.0
82.5°	1053.2	1075.5	1174.6	1028.4	884.7	594.8	542.7	654.2	698.8	770.7	522.9
85°	726.1	701.3	805.4	716.2	639.4	396.5	371.7	443.6	470.9	478.3	270.1
87.5°	436.2	436.2	465.9	384.1	344.5	205.7	200.7	252.8	270.1	257.7	148.7
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°	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3	13979.3
2.5°	14016.5	13840.5	13466.3	13166.5	12787.3	12393.3	12172.7	11937.3	11776.2	11659.8	11845.6
5°	14123.0	13763.7	12990.5	12257.0	11446.6	10604.1	9964.7	9369.9	8956.1	8698.3	8941.2
7.5°	14291.6	13738.9	12507.3	11253.3	9798.7	8396.0	7142.1	6356.5	5898.0	5672.5	5813.8
10°	14484.9	13699.3	11939.8	9892.8	7811.2	6044.2	5107.5	4790.3	4686.2	4644.1	4663.9
12.5°	14645.9	13615.0	11243.4	8247.3	5865.8	4772.9	4502.8	4495.4	4517.7	4522.6	4530.1
15°	14759.9	13491.1	10210.0	6532.4	4691.2	4349.2	4334.3	4378.9	4421.0	4438.4	4448.3
17.5°	14836.8	13235.9	9042.8	5164.5	4203.0	4143.5	4178.2	4235.2	4279.8	4292.2	4302.1
20°	14829.3	12861.7	7652.6	4307.0	3937.8	3937.8	3997.3	4041.9	4044.4	4029.5	4036.9
22.5°	14752.5	12348.7	6304.4	3851.1	3702.4	3744.5	3804.0	3761.9	3588.4	3474.4	3481.8
25°	14623.6	11736.6	5149.6	3561.1	3484.3	3558.6	3541.3	3224.1	2976.3	2864.8	2864.8
27.5°	14509.6	11013.0	4262.4	3308.3	3266.2	3357.9	3050.6	2763.2	2659.1	2607.0	2589.7
30°	14427.9	10232.3	3670.2	3065.5	3060.5	2993.6	2646.7	2567.4	2550.0	2507.9	2493.0
32.5°	14447.7	9441.8	3291.0	2852.4	2869.7	2562.4	2453.4	2470.7	2455.9	2411.3	2391.4
35°	14611.2	8690.9	3043.2	2659.1	2607.0	2314.6	2339.4	2371.6	2366.6	2304.7	2284.9
37.5°	14903.7	7979.7	2879.6	2498.0	2275.0	2190.7	2230.3	2279.9	2267.5	2225.4	2210.5
40°	15211.0	7310.6	2745.8	2371.6	2079.2	2106.4	2141.1	2168.4	2180.8	2193.2	2183.3
42.5°	15510.8	6611.7	2582.2	2242.7	1997.4	2027.1	2042.0	2069.3	2136.2	2183.3	2180.8
45°	15689.2	5955.0	2413.7	2059.4	1933.0	1950.3	1940.4	1994.9	2076.7	2153.5	2156.0
47.5°	15887.5	5444.5	2279.9	1890.8	1871.0	1883.4	1853.7	1908.2	1982.5	2076.7	2086.6
50°	16127.9	5139.7	2173.3	1757.0	1786.8	1786.8	1779.3	1828.9	1933.0	2042.0	2061.8
52.5°	16400.5	5080.2	2084.1	1660.4	1702.5	1700.0	1707.5	1781.8	1895.8	2002.4	2019.7
55°	16732.6	5241.3	1987.5	1588.5	1620.7	1630.6	1655.4	1739.7	1836.3	1957.7	1965.2
57.5°	17119.1	5568.4	1910.7	1531.5	1546.4	1578.6	1618.2	1695.1	1799.1	1933.0	1940.4
58°	17183.6	5637.8	1898.3	1526.5	1531.5	1568.7	1613.3	1687.6	1791.7	1937.9	1945.4
60°	17186.1	5868.3	1871.0	1504.2	1474.5	1536.5	1586.0	1660.4	1779.3	1955.3	1972.6
62.5°	16576.4	5865.8	1851.2	1472.0	1415.0	1491.9	1548.9	1635.6	1766.9	1997.4	2032.1
65°	14596.4	5330.5	1757.0	1422.5	1367.9	1452.2	1516.6	1618.2	1801.6	2180.8	2203.1
67.5°	11416.9	4369.0	1581.1	1353.1	1306.0	1412.6	1496.8	1615.8	1838.8	2222.9	2237.8
70°	7548.5	3268.7	1387.8	1273.8	1241.6	1365.5	1506.7	1700.0	1796.7	2133.7	2094.0
72.5°	3918.0	2294.8	1231.6	1174.6	1167.2	1323.3	1650.5	1690.1	1754.5	2007.3	1957.7
75°	2056.9	1593.5	1095.3	1065.6	1078.0	1313.4	1947.8	1645.5	1700.0	1920.6	2014.7
77.5°	1258.9	1286.2	978.9	966.5	991.3	1283.7	1945.4	1588.5	1620.7	1766.9	1871.0
80°	842.6	1043.3	889.7	892.1	909.5	1174.6	1747.1	1499.3	1524.1	1670.3	1776.8
82.5°	532.8	617.1	807.9	850.0	827.7	969.0	1484.4	1365.5	1400.2	1910.7	2019.7
85°	270.1	386.6	701.3	817.8	745.9	679.0	1204.4	1197.0	1214.3	1377.9	1439.8
87.5°	123.9	213.1	547.7	713.7	562.5	423.8	874.8	887.2	956.6	978.9	978.9
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)