

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: P300410

Luminaire Tested: **GLNA-AF-10-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300410  
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-10-LED-E1-AFL-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

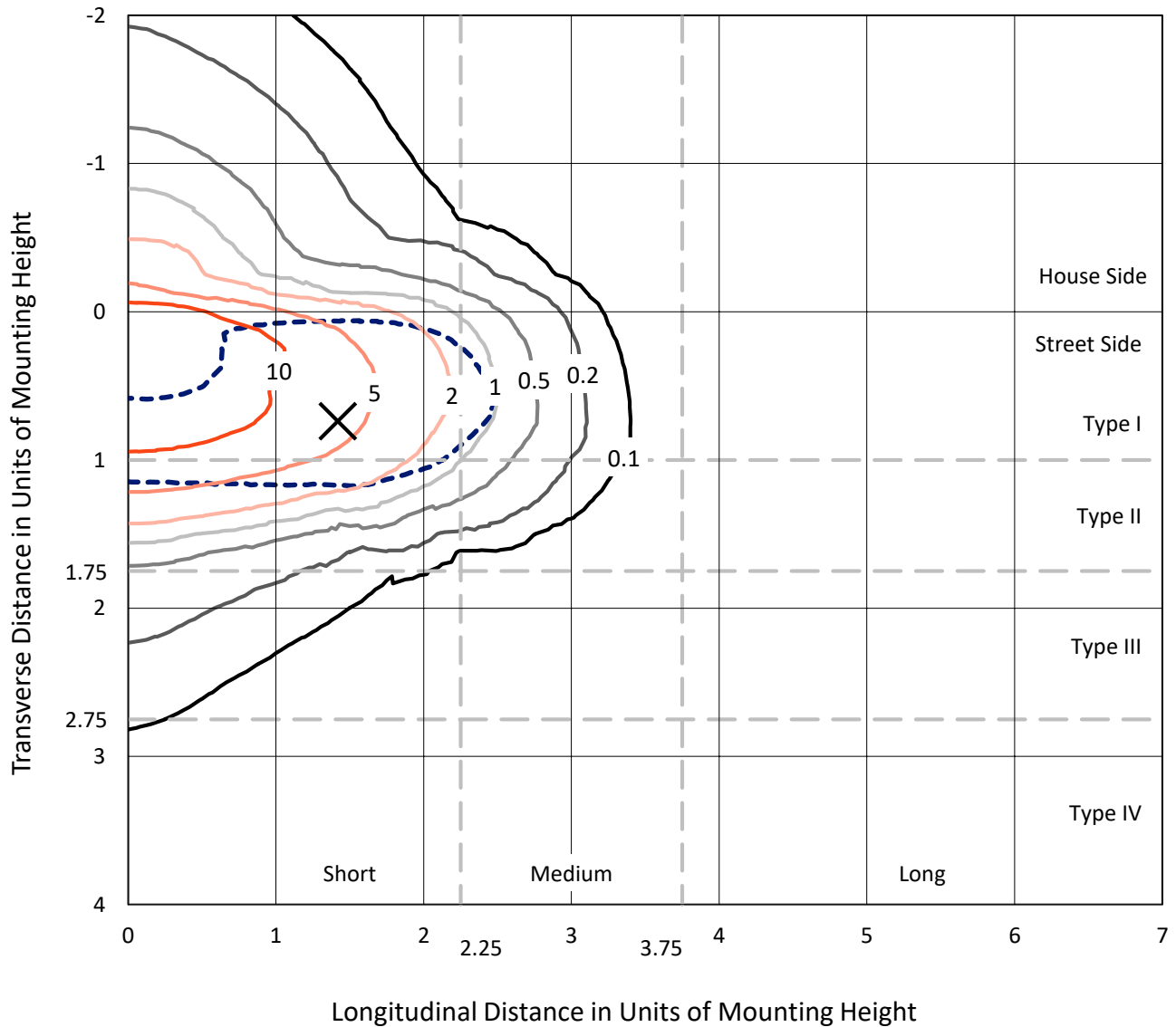
Lumens per Lamp: N/A  
Luminaire Lumens: 47072.5 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (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



REPORT NUMBER: P300410  
 CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-800

### Iso-Footcandle Lines of Horizontal Illumination

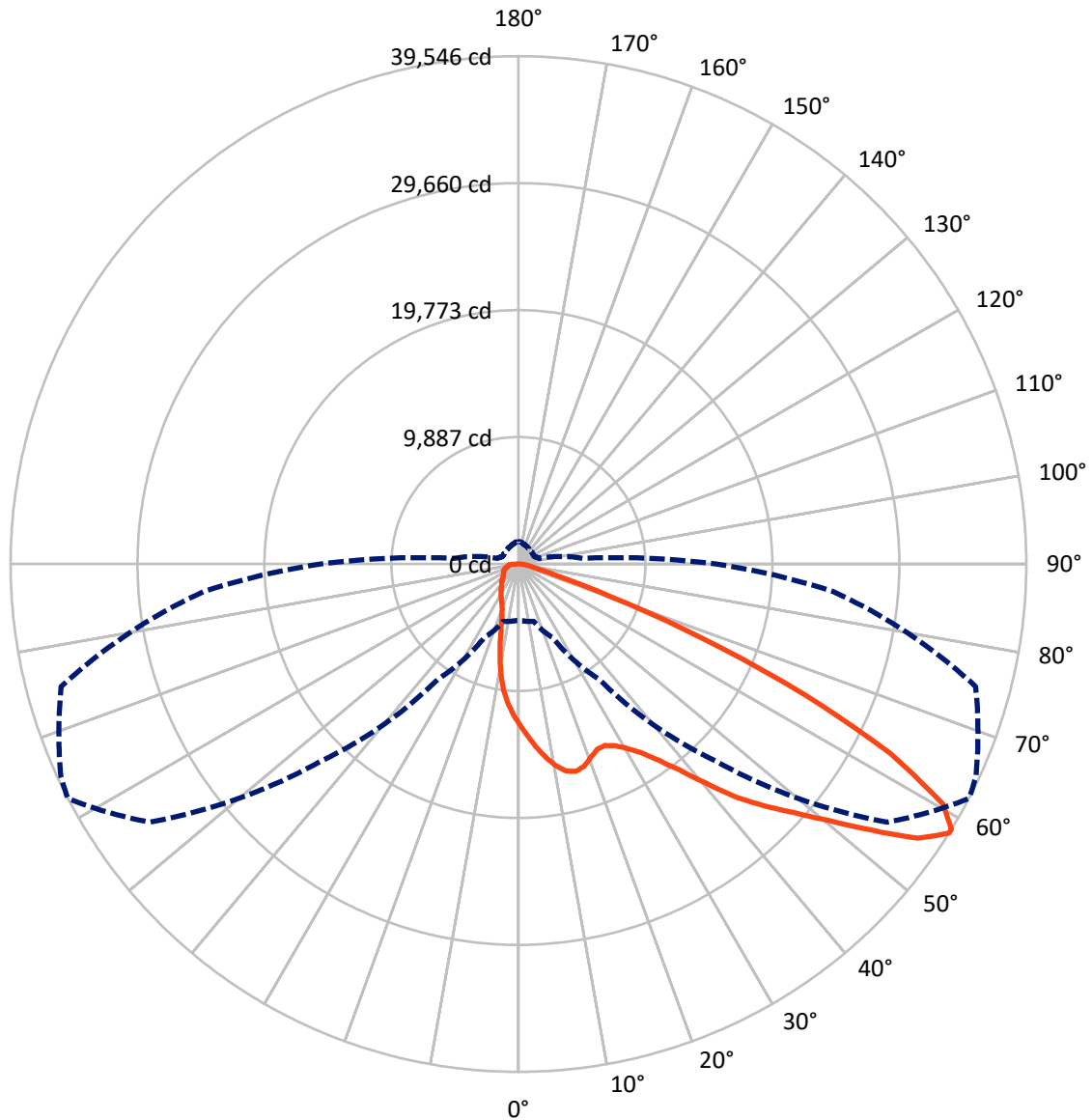
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300410  
CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300410

CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7178.7	0.0	7178.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	39893.7	0.0	39893.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	47072.5	0.0	47072.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1118.3	2.4
10°-20°	2858.5	6.1
20°-30°	4620.9	9.8
30°-40°	7335.6	15.6
40°-50°	10733.5	22.8
50°-60°	11226.4	23.8
60°-70°	6632.5	14.1
70°-80°	1868.4	4.0
80°-90°	678.3	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°	47072.5	100.0
0°-180°	47072.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300410

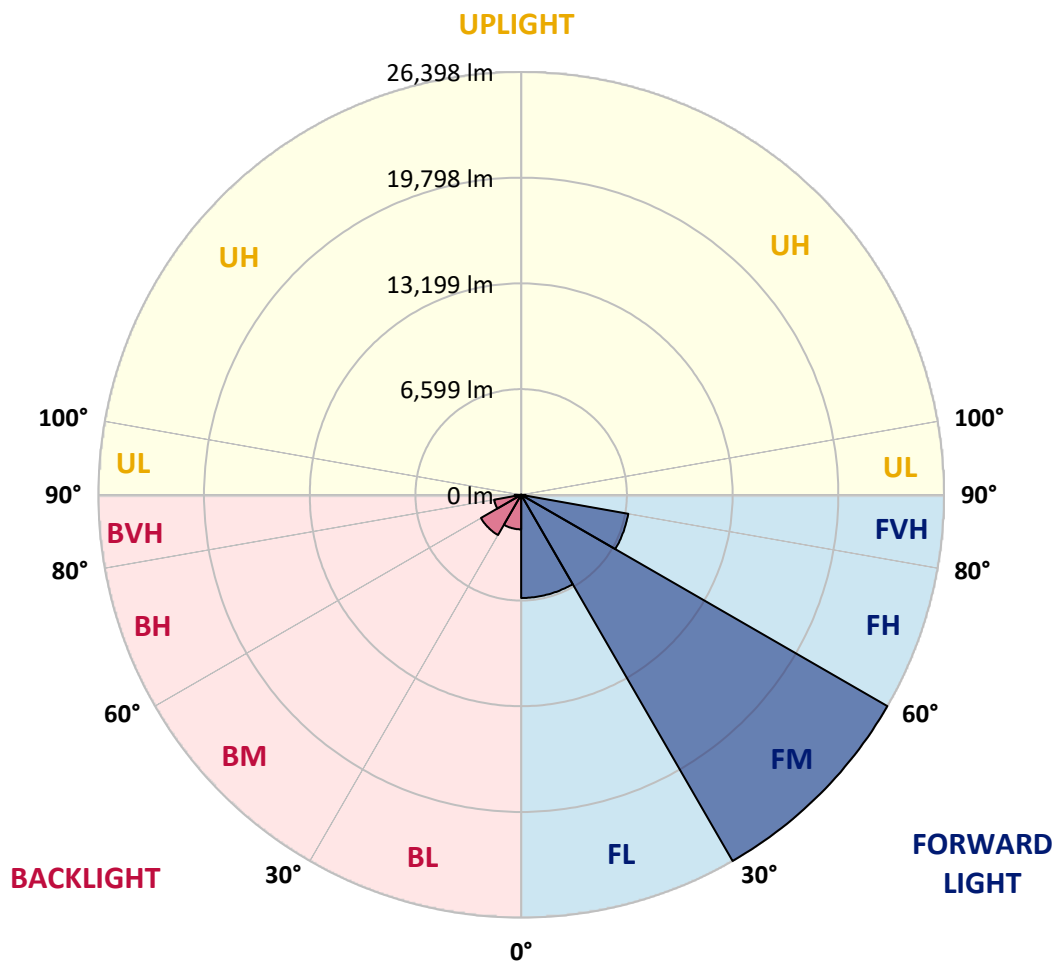
CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6440.1	13.7			
FM (30°-60°)	26398.0	56.1			
FH (60°-80°)	6788.0	14.4			G3/7500
FVH (80°-90°)	267.6	0.6			G3/500
BL (0°-30°)	2157.6	4.6	B3/2500		
BM (30°-60°)	2897.5	6.2	B3/5000		
BH (60°-80°)	1712.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	410.7	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





REPORT NUMBER: P300410

CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8
2.5°	14288.2	14172.9	14099.8	14035.5	13951.3	13771.7	13530.1	13377.2	13299.6	13035.8	12723.3
5°	15689.1	15587.1	15511.8	15425.3	15274.6	14993.1	14603.0	14292.6	14139.7	13612.1	12987.1
7.5°	15361.0	15403.2	15533.9	15762.2	15957.3	15919.6	15571.6	15177.1	14975.4	14241.7	13293.0
10°	13383.8	13457.0	13683.1	14217.3	15081.8	15968.4	16238.8	15966.2	15762.2	14864.5	13607.7
12.5°	12987.1	12984.8	13002.6	13144.4	13658.7	14906.6	16261.0	16535.8	16413.9	15458.6	13929.1
15°	13148.9	13153.3	13140.0	13199.9	13359.5	13853.8	15582.7	16755.3	16841.7	16057.1	14261.6
17.5°	13574.5	13563.4	13512.4	13512.4	13570.0	13762.9	14784.7	16551.4	16950.3	16586.8	14554.2
20°	14288.2	14237.2	14102.0	13977.9	13915.8	14020.0	14456.7	16081.4	16761.9	17050.1	14795.8
22.5°	15152.7	15112.8	14893.3	14627.3	14412.3	14410.1	14625.1	15671.4	16436.1	17486.8	14999.7
25°	16269.9	16205.6	15879.7	15454.1	15077.3	14933.2	14993.1	15651.4	16258.8	17961.1	15181.5
27.5°	17582.1	17464.6	17078.9	16464.9	15910.8	15620.4	15533.9	16012.7	16420.6	18548.5	15434.2
30°	19173.6	19038.4	18544.1	17743.9	16961.4	16484.9	16300.9	16653.3	16957.0	19264.5	15839.8
32.5°	20984.6	20789.5	20217.6	19335.4	18306.9	17579.9	17280.6	17500.1	17741.7	20126.7	16347.4
35°	23487.1	23254.4	22427.6	21210.7	20049.2	19049.5	18570.7	18730.3	18965.2	21412.4	17081.1
37.5°	25193.9	25089.7	24540.0	23396.2	22132.8	20982.3	20242.0	20335.1	20468.1	23019.4	18021.0
40°	25178.4	25220.5	25231.6	25242.7	24382.6	23281.0	22485.2	22387.7	22361.1	24783.8	19089.4
42.5°	23917.1	24090.0	24648.6	25781.3	26304.4	25799.0	25069.8	24788.2	24648.6	26863.0	20222.0
45°	21986.5	22079.6	23125.8	25338.0	27288.6	28292.7	27740.8	26854.1	26601.4	28773.7	21161.9
47.5°	20991.2	21093.2	21751.5	24163.2	27277.5	30307.6	30626.8	28937.7	28485.5	30436.1	21973.2
50°	18621.7	18834.5	19663.5	22119.5	26282.2	31234.1	33643.6	31420.3	30484.9	32054.3	22786.7
52.5°	14270.5	14598.5	15527.3	18759.1	23757.5	30775.3	36057.4	34430.5	33109.4	33730.0	23484.9
55°	9001.6	9245.4	10025.7	13248.6	19005.1	28388.0	36972.9	37686.6	36511.8	35317.1	24090.0
57.5°	4894.3	5002.9	5295.5	7314.8	12362.0	23110.3	35638.5	39539.7	39052.1	36664.8	24546.6
58°	4380.0	4453.2	4634.9	6339.5	10963.3	21667.3	35046.7	39546.4	39302.5	36862.1	24582.1
60°	3249.5	3211.9	3050.0	3617.5	6102.3	14968.7	31469.1	37963.7	38679.7	37103.7	24409.2
62.5°	2855.0	2764.1	2433.8	2396.1	2968.0	6895.8	24078.9	32519.8	34211.0	35725.0	23358.5
65°	2682.1	2584.6	2159.0	2021.5	2141.2	2917.0	14184.0	24389.3	26510.5	31544.4	20672.0
67.5°	2553.5	2427.2	1983.9	1795.4	1804.3	1928.4	5685.6	15361.0	17748.3	23950.4	16079.2
70°	2429.4	2292.0	1835.3	1618.1	1567.1	1525.0	2260.9	7689.4	9855.0	15128.3	10251.8
72.5°	2296.4	2161.2	1704.6	1478.5	1378.7	1239.1	1476.3	3145.4	4393.3	7157.4	4650.4
75°	2103.6	1981.6	1573.8	1354.3	1212.5	1026.3	1115.0	1642.5	1970.6	2850.5	2241.0
77.5°	1866.4	1766.6	1427.5	1252.4	1075.1	833.4	857.8	1139.3	1263.5	1631.4	1332.2
80°	1341.0	1376.5	1270.1	1126.0	957.6	676.1	658.3	831.2	897.7	1048.5	866.7
82.5°	942.1	962.0	1050.7	919.9	791.3	532.0	485.4	585.2	625.1	689.4	467.7
85°	649.5	627.3	720.4	640.6	571.9	354.7	332.5	396.8	421.2	427.8	241.6
87.5°	390.1	390.1	416.7	343.6	308.1	184.0	179.5	226.1	241.6	230.5	133.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300410

CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8	12503.8
2.5°	12537.1	12379.7	12045.0	11776.8	11437.7	11085.2	10887.9	10677.4	10533.3	10429.1	10595.4
5°	12632.4	12311.0	11619.4	10963.3	10238.5	9484.8	8913.0	8381.0	8010.8	7780.3	7997.5
7.5°	12783.1	12288.8	11187.2	10065.6	8764.4	7509.8	6388.2	5685.6	5275.5	5073.8	5200.1
10°	12956.0	12253.4	10679.6	8848.7	6986.7	5406.3	4568.4	4284.7	4191.6	4153.9	4171.6
12.5°	13100.1	12178.0	10056.7	7376.8	5246.7	4269.2	4027.6	4020.9	4040.9	4045.3	4051.9
15°	13202.1	12067.2	9132.4	5843.0	4196.0	3890.1	3876.8	3916.7	3954.4	3969.9	3978.8
17.5°	13270.8	11838.9	8088.4	4619.4	3759.4	3706.2	3737.2	3788.2	3828.1	3839.2	3848.0
20°	13264.1	11504.2	6844.9	3852.5	3522.2	3522.2	3575.4	3615.3	3617.5	3604.2	3610.8
22.5°	13195.4	11045.3	5639.0	3444.6	3311.6	3349.3	3402.5	3364.8	3209.6	3107.7	3114.3
25°	13080.2	10497.8	4606.1	3185.3	3116.5	3183.0	3167.5	2883.8	2662.1	2562.4	2562.4
27.5°	12978.2	9850.6	3812.6	2959.2	2921.5	3003.5	2728.6	2471.5	2378.4	2331.9	2316.3
30°	12905.1	9152.3	3282.8	2741.9	2737.5	2677.7	2367.3	2296.4	2280.9	2243.2	2229.9
32.5°	12922.8	8445.2	2943.6	2551.3	2566.8	2292.0	2194.4	2210.0	2196.7	2156.8	2139.0
35°	13069.1	7773.6	2722.0	2378.4	2331.9	2070.3	2092.5	2121.3	2116.9	2061.4	2043.7
37.5°	13330.6	7137.5	2575.7	2234.3	2034.8	1959.5	1994.9	2039.3	2028.2	1990.5	1977.2
40°	13605.5	6539.0	2456.0	2121.3	1859.7	1884.1	1915.1	1939.5	1950.6	1961.7	1952.8
42.5°	13873.7	5913.9	2309.7	2006.0	1786.6	1813.2	1826.5	1850.9	1910.7	1952.8	1950.6
45°	14033.3	5326.5	2159.0	1842.0	1728.9	1744.5	1735.6	1784.4	1857.5	1926.2	1928.4
47.5°	14210.6	4869.9	2039.3	1691.3	1673.5	1684.6	1658.0	1706.8	1773.3	1857.5	1866.4
50°	14425.6	4597.2	1944.0	1571.6	1598.2	1598.2	1591.5	1635.9	1728.9	1826.5	1844.2
52.5°	14669.5	4544.0	1864.2	1485.1	1522.8	1520.6	1527.2	1593.7	1695.7	1791.0	1806.5
55°	14966.5	4688.1	1777.7	1420.8	1449.7	1458.5	1480.7	1556.1	1642.5	1751.1	1757.8
57.5°	15312.3	4980.7	1709.0	1369.9	1383.2	1412.0	1447.4	1516.2	1609.3	1728.9	1735.6
58°	15369.9	5042.8	1697.9	1365.4	1369.9	1403.1	1443.0	1509.5	1602.6	1733.4	1740.0
60°	15372.1	5248.9	1673.5	1345.5	1318.9	1374.3	1418.6	1485.1	1591.5	1748.9	1764.4
62.5°	14826.8	5246.7	1655.8	1316.7	1265.7	1334.4	1385.4	1463.0	1580.4	1786.6	1817.6
65°	13055.8	4767.9	1571.6	1272.3	1223.6	1298.9	1356.6	1447.4	1611.5	1950.6	1970.6
67.5°	10211.9	3907.9	1414.2	1210.3	1168.1	1263.5	1338.8	1445.2	1644.7	1988.3	2001.6
70°	6751.8	2923.7	1241.3	1139.3	1110.5	1221.3	1347.7	1520.6	1607.0	1908.5	1873.0
72.5°	3504.4	2052.6	1101.7	1050.7	1044.0	1183.7	1476.3	1511.7	1569.4	1795.4	1751.1
75°	1839.8	1425.3	979.7	953.1	964.2	1174.8	1742.2	1471.8	1520.6	1717.9	1802.1
77.5°	1126.0	1150.4	875.6	864.5	886.6	1148.2	1740.0	1420.8	1449.7	1580.4	1673.5
80°	753.6	933.2	795.8	798.0	813.5	1050.7	1562.7	1341.0	1363.2	1494.0	1589.3
82.5°	476.6	551.9	722.6	760.3	740.3	866.7	1327.7	1221.3	1252.4	1709.0	1806.5
85°	241.6	345.8	627.3	731.5	667.2	607.3	1077.3	1070.6	1086.1	1232.4	1287.8
87.5°	110.8	190.6	489.9	638.4	503.2	379.0	782.5	793.5	855.6	875.6	875.6
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)