

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: P300385

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300385  
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-06-LED-E1-AFL-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25549.6 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

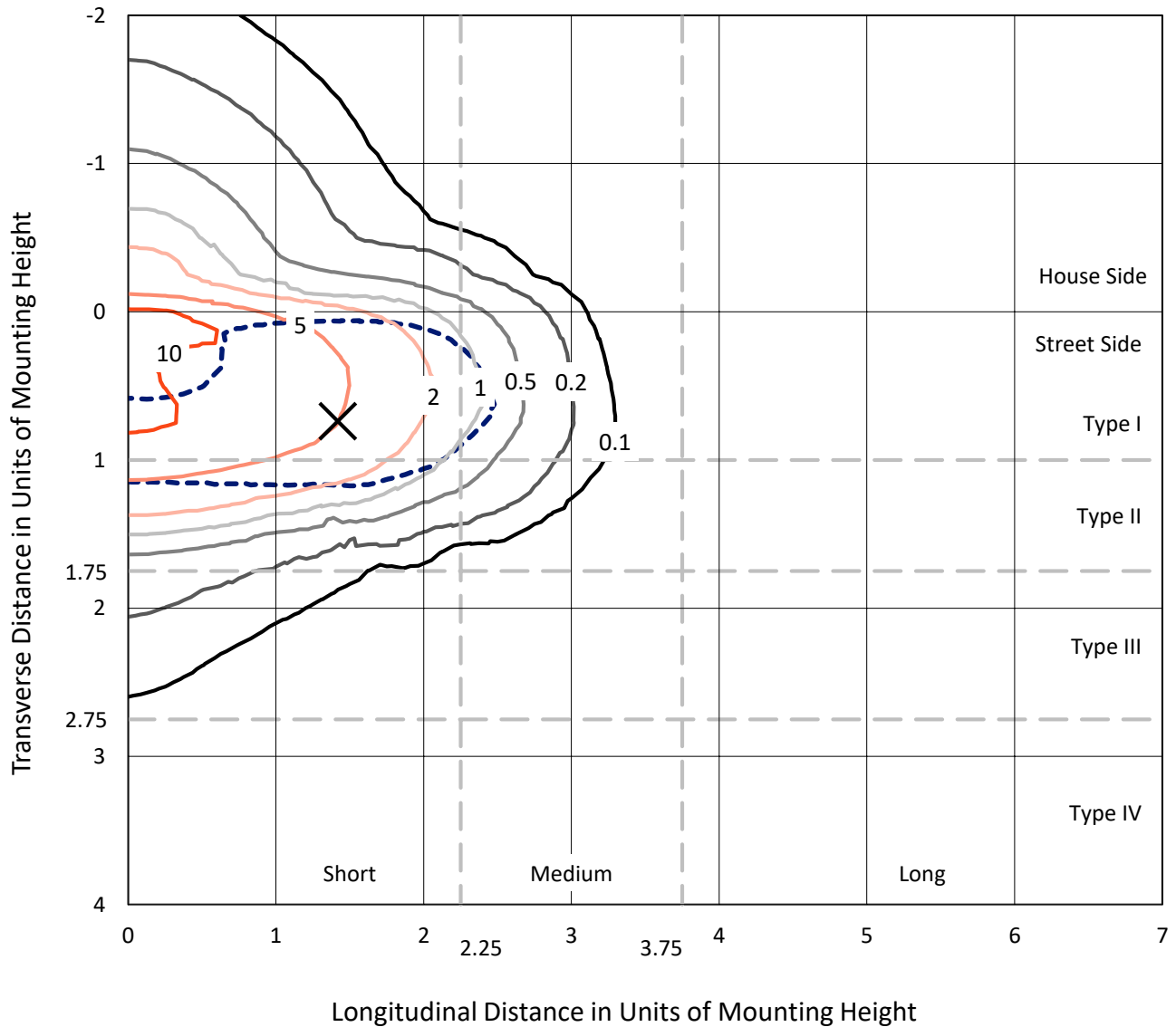
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P300385  
 CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

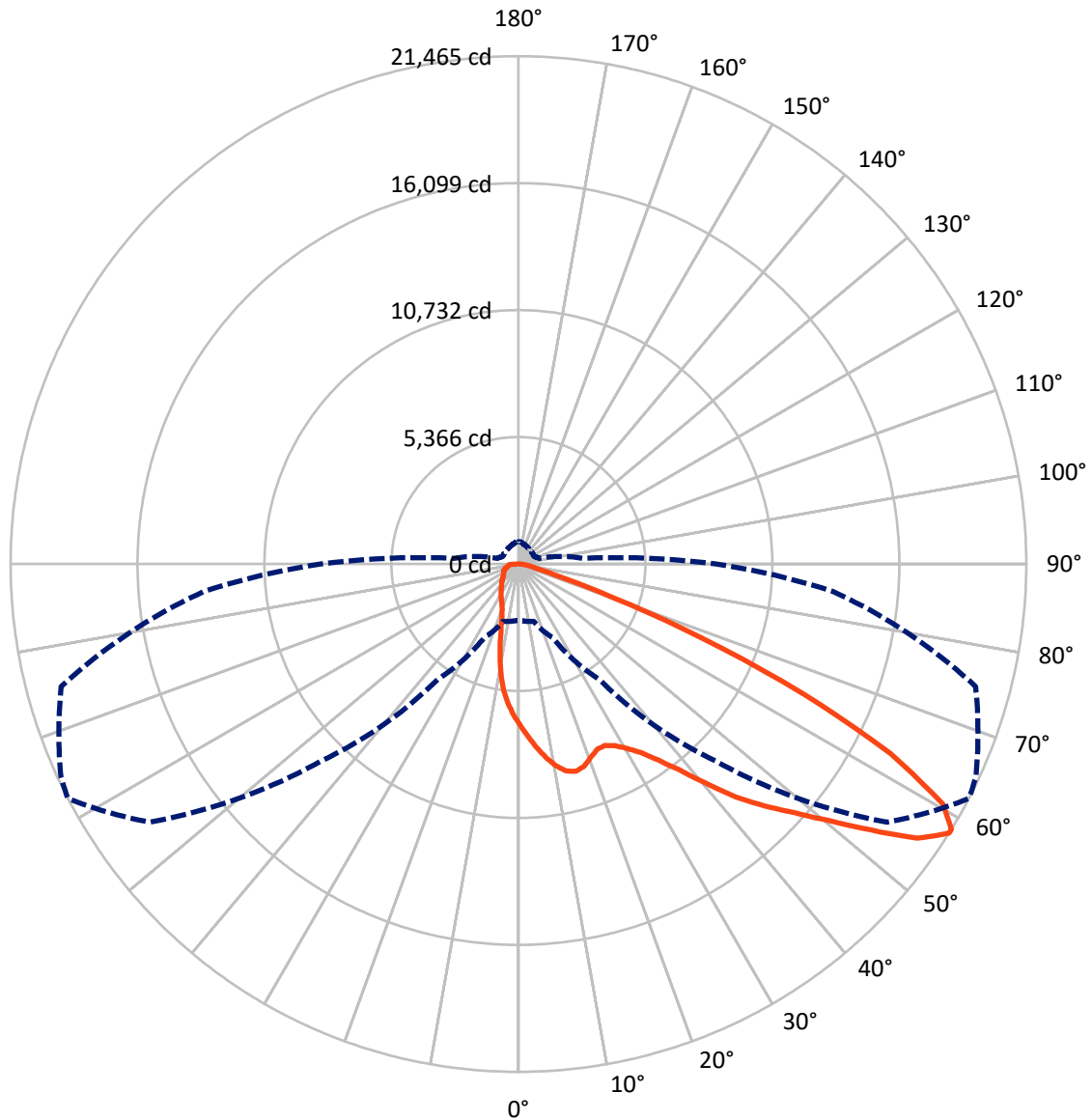
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300385  
CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7027-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300385

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7027-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3896.4	0.0	3896.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	21653.2	0.0	21653.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	25549.6	0.0	25549.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.0	2.4
10°-20°	1551.5	6.1
20°-30°	2508.1	9.8
30°-40°	3981.6	15.6
40°-50°	5825.9	22.8
50°-60°	6093.4	23.8
60°-70°	3600.0	14.1
70°-80°	1014.1	4.0
80°-90°	368.2	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°	25549.6	100.0
0°-180°	25549.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300385

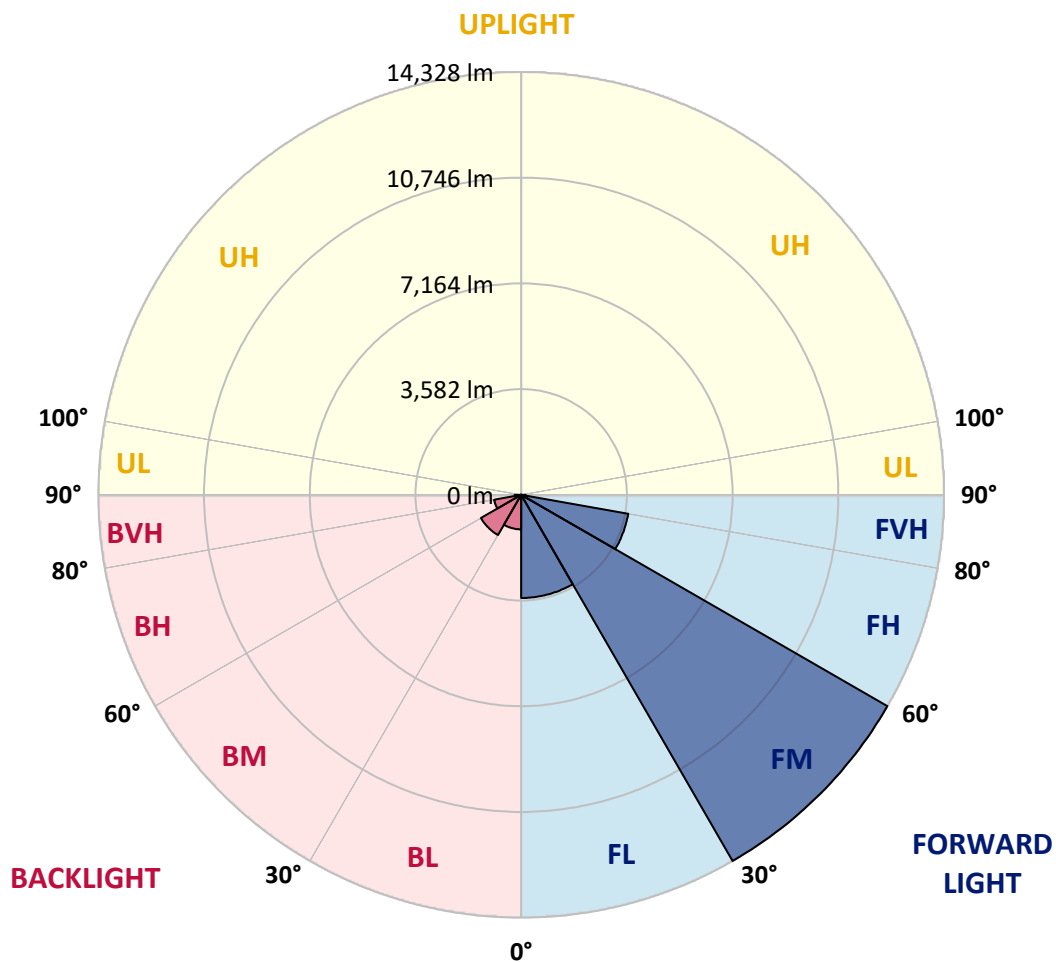
CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7027-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3495.5	13.7			
FM	(30°-60°)	14328.1	56.1			
FH	(60°-80°)	3684.4	14.4			G2/5000
FVH	(80°-90°)	145.3	0.6			G2/225
BL	(0°-30°)	1171.1	4.6	B3/2500		
BM	(30°-60°)	1572.7	6.2	B2/2500		
BH	(60°-80°)	929.7	3.6	B2/1000		G2/1000
BVH	(80°-90°)	222.9	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P300385

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7
2.5°	7755.2	7692.7	7653.0	7618.1	7572.4	7474.9	7343.8	7260.8	7218.7	7075.5	6905.8
5°	8515.6	8460.3	8419.4	8372.4	8290.6	8137.8	7926.1	7757.6	7674.6	7388.3	7049.0
7.5°	8337.5	8360.4	8431.4	8555.3	8661.2	8640.7	8451.8	8237.7	8128.2	7730.0	7215.0
10°	7264.4	7304.1	7426.8	7716.7	8186.0	8667.2	8814.0	8666.0	8555.3	8068.0	7385.9
12.5°	7049.0	7047.8	7057.4	7134.4	7413.6	8090.9	8826.0	8975.2	8909.0	8390.5	7560.3
15°	7136.8	7139.2	7132.0	7164.5	7251.1	7519.4	8457.9	9094.3	9141.2	8715.3	7740.8
17.5°	7367.8	7361.8	7334.2	7334.2	7365.4	7470.1	8024.7	8983.6	9200.2	9002.9	7899.6
20°	7755.2	7727.6	7654.2	7586.8	7553.1	7609.7	7846.7	8728.6	9097.9	9254.3	8030.8
22.5°	8224.5	8202.8	8083.7	7939.3	7822.6	7821.4	7938.1	8506.0	8921.1	9491.3	8141.4
25°	8830.8	8795.9	8619.1	8388.1	8183.5	8105.3	8137.8	8495.2	8824.8	9748.8	8240.1
27.5°	9543.1	9479.3	9270.0	8936.7	8635.9	8478.3	8431.4	8691.3	8912.6	10067.6	8377.2
30°	10406.9	10333.5	10065.2	9630.9	9206.2	8947.5	8847.7	9039.0	9203.8	10456.2	8597.4
32.5°	11389.8	11284.0	10973.6	10494.7	9936.5	9541.9	9379.4	9498.5	9629.7	10924.2	8872.9
35°	12748.1	12621.8	12173.1	11512.5	10882.1	10339.5	10079.6	10166.3	10293.8	11622.0	9271.2
37.5°	13674.5	13618.0	13319.6	12698.8	12013.0	11388.6	10986.8	11037.3	11109.5	12494.3	9781.3
40°	13666.1	13689.0	13695.0	13701.0	13234.2	12636.2	12204.3	12151.4	12137.0	13452.0	10361.2
42.5°	12981.5	13075.4	13378.6	13993.4	14277.3	14003.0	13607.2	13454.4	13378.6	14580.5	10976.0
45°	11933.6	11984.2	12552.0	13752.7	14811.5	15356.5	15056.9	14575.7	14438.5	15617.6	11486.1
47.5°	11393.4	11448.8	11806.1	13115.1	14805.5	16450.1	16623.4	15706.6	15461.1	16519.9	11926.4
50°	10107.3	10222.8	10672.8	12005.8	14265.3	16953.0	18260.8	17054.1	16546.4	17398.2	12368.0
52.5°	7745.6	7923.7	8427.8	10181.9	12894.9	16704.0	19571.0	18687.9	17970.8	18307.7	12746.9
55°	4885.8	5018.2	5441.7	7191.0	10315.5	15408.2	20067.9	20455.3	19817.6	19169.1	13075.4
57.5°	2656.5	2715.4	2874.2	3970.3	6709.7	12543.6	19343.6	21461.1	21196.4	19900.6	13323.2
58°	2377.3	2417.0	2515.7	3440.9	5950.6	11760.4	19022.4	21464.7	21332.3	20007.7	13342.5
60°	1763.8	1743.3	1655.5	1963.5	3312.2	8124.6	17080.5	20605.6	20994.2	20138.8	13248.6
62.5°	1549.6	1500.3	1321.0	1300.6	1611.0	3742.9	13069.4	17650.8	18568.8	19390.5	12678.4
65°	1455.8	1402.8	1171.8	1097.2	1162.2	1583.3	7698.7	13237.8	14389.2	17121.4	11220.2
67.5°	1386.0	1317.4	1076.8	974.5	979.3	1046.7	3086.0	8337.5	9633.3	12999.6	8727.3
70°	1318.6	1244.0	996.2	878.3	850.6	827.7	1227.2	4173.6	5349.0	8211.2	5564.4
72.5°	1246.4	1173.0	925.2	802.5	748.3	672.5	801.3	1707.2	2384.6	3884.8	2524.1
75°	1141.8	1075.6	854.2	735.1	658.1	557.0	605.2	891.5	1069.6	1547.2	1216.3
77.5°	1013.0	958.9	774.8	679.8	583.5	452.4	465.6	618.4	685.8	885.5	723.1
80°	727.9	747.1	689.4	611.2	519.7	366.9	357.3	451.2	487.3	569.1	470.4
82.5°	511.3	522.1	570.3	499.3	429.5	288.7	263.5	317.6	339.3	374.2	253.9
85°	352.5	340.5	391.0	347.7	310.4	192.5	180.5	215.4	228.6	232.2	131.1
87.5°	211.7	211.7	226.2	186.5	167.2	99.9	97.5	122.7	131.1	125.1	72.2
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: P300385

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7027-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7	6786.7
2.5°	6804.8	6719.4	6537.7	6392.1	6208.0	6016.7	5909.7	5795.4	5717.2	5660.6	5750.9
5°	6856.5	6682.1	6306.7	5950.6	5557.2	5148.1	4837.7	4549.0	4348.0	4222.9	4340.8
7.5°	6938.3	6670.0	6072.1	5463.3	4757.1	4076.1	3467.4	3086.0	2863.4	2753.9	2822.5
10°	7032.2	6650.8	5796.6	4802.8	3792.2	2934.4	2479.6	2325.6	2275.1	2254.6	2264.3
12.5°	7110.4	6609.9	5458.5	4003.9	2847.8	2317.2	2186.0	2182.4	2193.3	2195.7	2199.3
15°	7165.7	6549.7	4956.8	3171.4	2277.5	2111.5	2104.2	2125.9	2146.3	2154.8	2159.6
17.5°	7203.0	6425.8	4390.1	2507.3	2040.5	2011.6	2028.4	2056.1	2077.8	2083.8	2088.6
20°	7199.4	6244.1	3715.2	2091.0	1911.7	1911.7	1940.6	1962.3	1963.5	1956.3	1959.9
22.5°	7162.1	5995.1	3060.7	1869.6	1797.4	1817.9	1846.8	1826.3	1742.1	1686.8	1690.4
25°	7099.5	5697.9	2500.1	1728.9	1691.6	1727.7	1719.2	1565.2	1444.9	1390.8	1390.8
27.5°	7044.2	5346.6	2069.3	1606.2	1585.7	1630.2	1481.0	1341.5	1290.9	1265.7	1257.2
30°	7004.5	4967.6	1781.8	1488.2	1485.8	1453.4	1284.9	1246.4	1238.0	1217.5	1210.3
32.5°	7014.1	4583.8	1597.7	1384.8	1393.2	1244.0	1191.1	1199.5	1192.3	1170.6	1161.0
35°	7093.5	4219.3	1477.4	1290.9	1265.7	1123.7	1135.7	1151.4	1149.0	1118.9	1109.3
37.5°	7235.5	3874.0	1398.0	1212.7	1104.5	1063.5	1082.8	1106.9	1100.8	1080.4	1073.2
40°	7384.7	3549.2	1333.0	1151.4	1009.4	1022.6	1039.5	1052.7	1058.7	1064.8	1059.9
42.5°	7530.3	3209.9	1253.6	1088.8	969.7	984.1	991.4	1004.6	1037.1	1059.9	1058.7
45°	7616.9	2891.1	1171.8	999.8	938.4	946.8	942.0	968.5	1008.2	1045.5	1046.7
47.5°	7713.1	2643.2	1106.9	918.0	908.3	914.4	899.9	926.4	962.5	1008.2	1013.0
50°	7829.8	2495.2	1055.1	853.0	867.4	867.4	863.8	887.9	938.4	991.4	1001.0
52.5°	7962.2	2466.4	1011.8	806.1	826.5	825.3	828.9	865.0	920.4	972.1	980.5
55°	8123.4	2544.6	964.9	771.2	786.8	791.6	803.7	844.6	891.5	950.5	954.1
57.5°	8311.1	2703.4	927.6	743.5	750.7	766.4	785.6	822.9	873.5	938.4	942.0
58°	8342.4	2737.1	921.6	741.1	743.5	761.6	783.2	819.3	869.8	940.8	944.4
60°	8343.6	2849.0	908.3	730.3	715.8	745.9	770.0	806.1	863.8	949.3	957.7
62.5°	8047.6	2847.8	898.7	714.6	687.0	724.3	751.9	794.1	857.8	969.7	986.5
65°	7086.3	2587.9	853.0	690.6	664.1	705.0	736.3	785.6	874.7	1058.7	1069.6
67.5°	5542.7	2121.1	767.6	656.9	634.0	685.8	726.7	784.4	892.7	1079.2	1086.4
70°	3664.7	1586.9	673.7	618.4	602.8	662.9	731.5	825.3	872.3	1035.9	1016.6
72.5°	1902.1	1114.1	597.9	570.3	566.7	642.5	801.3	820.5	851.8	974.5	950.5
75°	998.6	773.6	531.8	517.3	523.4	637.6	945.6	798.9	825.3	932.4	978.1
77.5°	611.2	624.4	475.2	469.2	481.2	623.2	944.4	771.2	786.8	857.8	908.3
80°	409.1	506.5	431.9	433.1	441.5	570.3	848.2	727.9	739.9	810.9	862.6
82.5°	258.7	299.6	392.2	412.7	401.8	470.4	720.7	662.9	679.8	927.6	980.5
85°	131.1	187.7	340.5	397.0	362.1	329.7	584.7	581.1	589.5	668.9	699.0
87.5°	60.2	103.5	265.9	346.5	273.1	205.7	424.7	430.7	464.4	475.2	475.2
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)