

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: P300362

Luminaire Tested: **GLNA-AF-02-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-02-LED-E1-T4FT-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8570.5 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

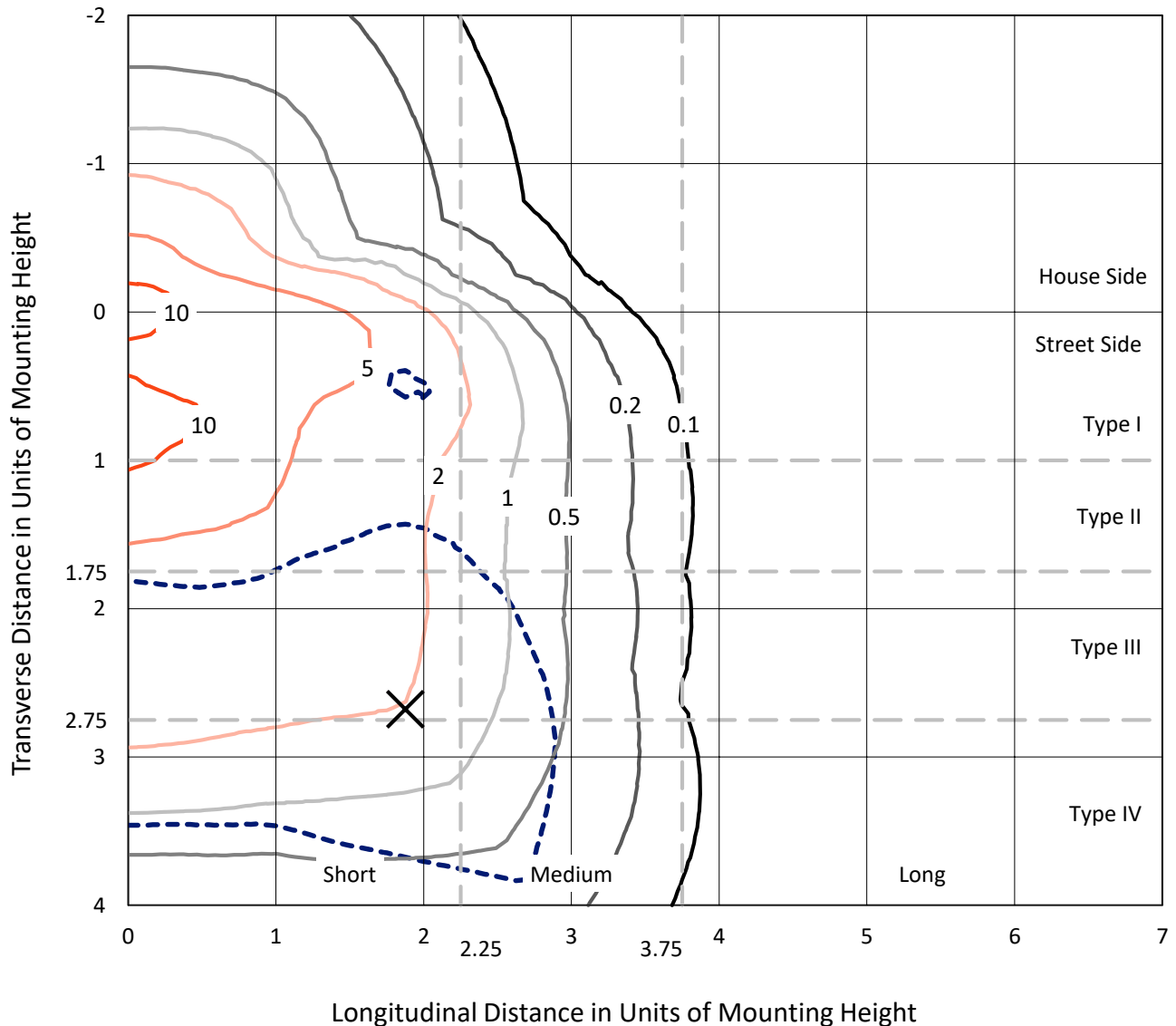
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P300362  
 CATALOG NUMBER: GLNA-AF-02-LED-E1-T4FT-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

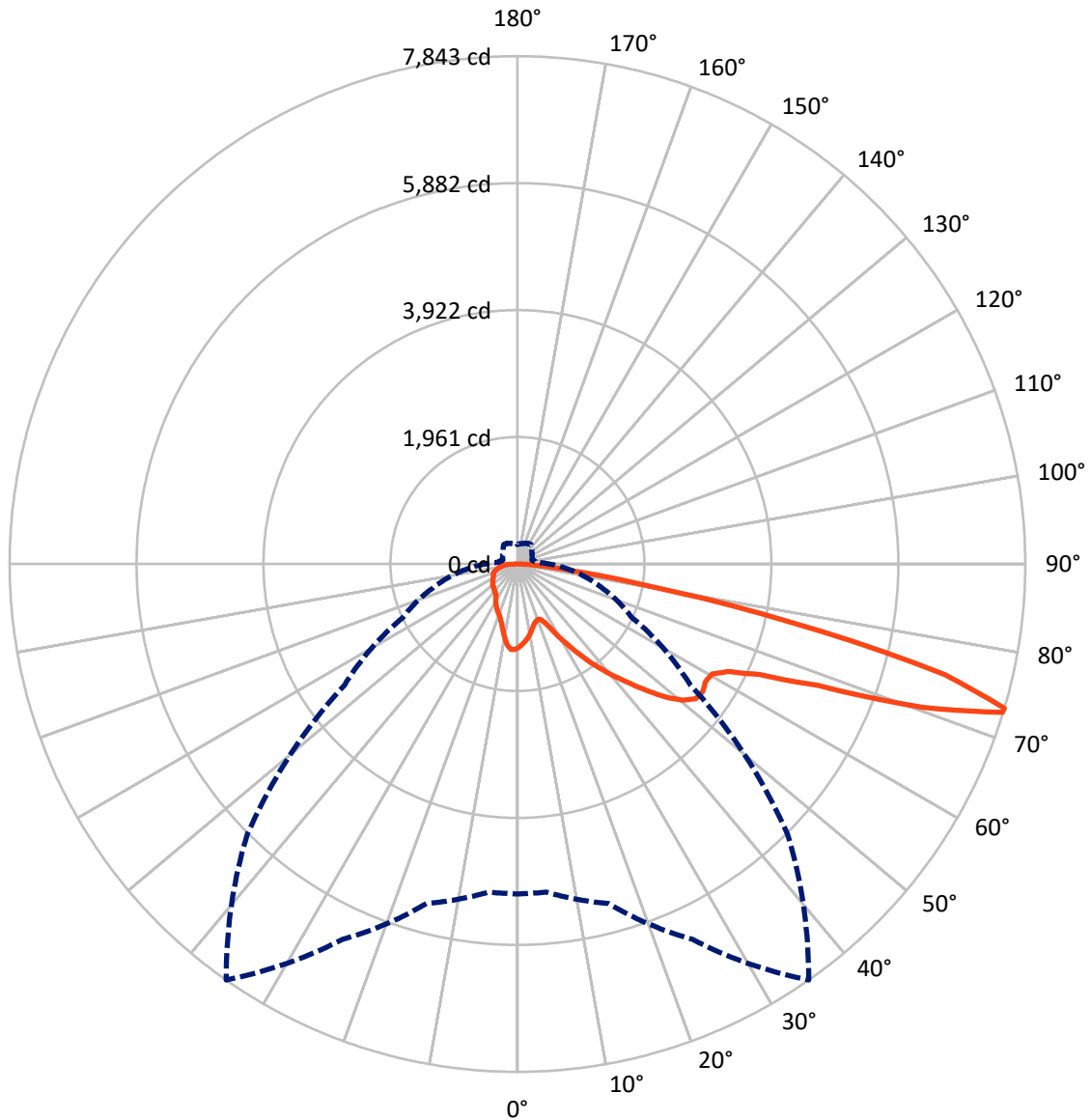
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P300362  
CATALOG NUMBER: GLNA-AF-02-LED-E1-T4FT-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P300362

CATALOG NUMBER: GLNA-AF-02-LED-E1-T4FT-7027-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.6	0.0	1634.6
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	6935.9	0.0	6935.9
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	8570.5	0.0	8570.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	1.4
10°-20°	292.3	3.4
20°-30°	472.5	5.5
30°-40°	792.3	9.2
40°-50°	1221.3	14.3
50°-60°	1638.5	19.1
60°-70°	2182.9	25.5
70°-80°	1664.9	19.4
80°-90°	188.7	2.2
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°	8570.5	100.0
0°-180°	8570.5	100.0



REPORT NUMBER: P300362

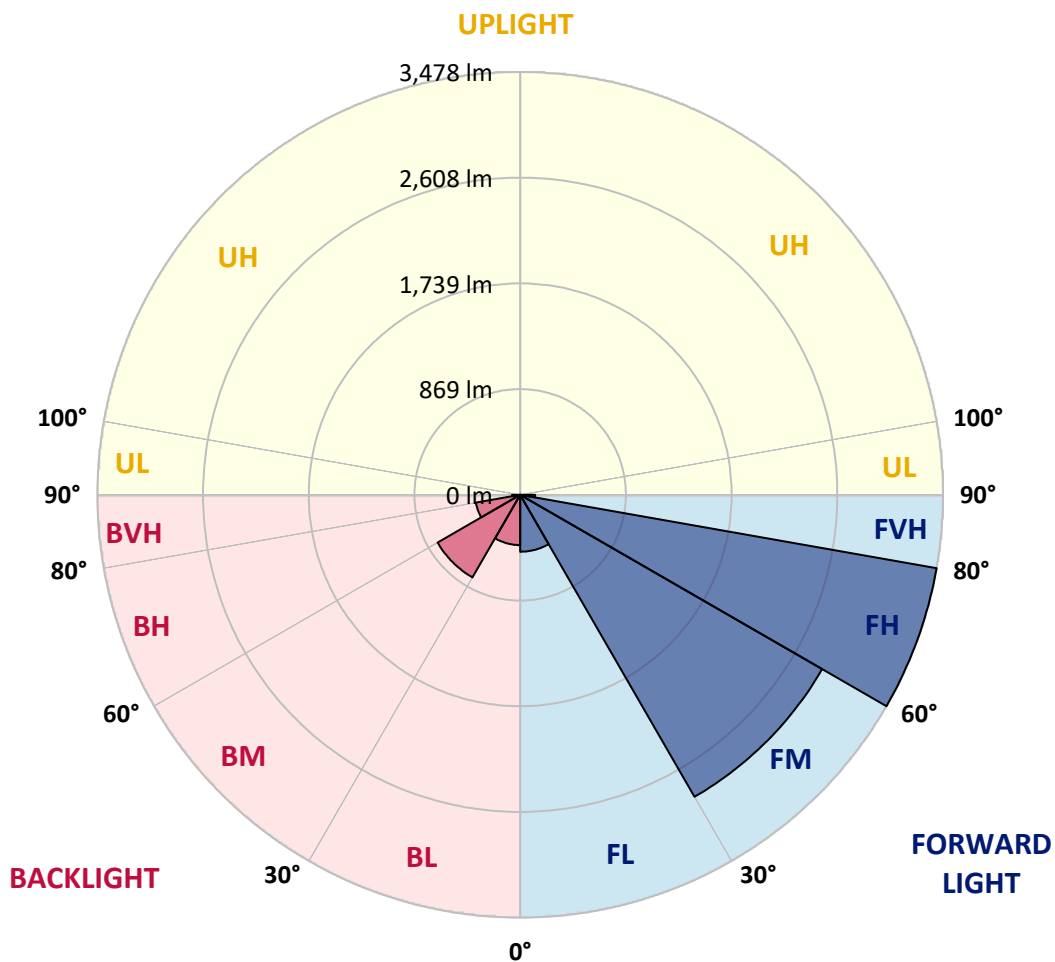
CATALOG NUMBER: GLNA-AF-02-LED-E1-T4FT-7027-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.2	5.5			
FM	(30°-60°)	2867.8	33.5			
FH	(60°-80°)	3477.9	40.6			G2/5000
FVH	(80°-90°)	122.0	1.4			G2/225
BL	(0°-30°)	413.6	4.8	B1/500		
BM	(30°-60°)	784.4	9.2	B1/1000		
BH	(60°-80°)	369.8	4.3	B1/500		G1/500
BVH	(80°-90°)	66.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P300362

CATALOG NUMBER: GLNA-AF-02-LED-E1-T4FT-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1242.5	1245.0	1242.1	1245.8	1252.0	1258.6	1263.1	1269.7	1277.1	1287.4	1289.9
5°	1184.1	1187.8	1187.8	1194.4	1206.3	1217.0	1226.9	1237.6	1253.2	1270.9	1277.9
7.5°	1119.9	1121.9	1125.6	1135.5	1152.8	1168.0	1182.0	1199.3	1220.7	1244.2	1256.5
10°	1042.5	1045.4	1051.1	1065.1	1088.6	1109.6	1129.8	1153.6	1180.8	1210.0	1225.6
12.5°	987.8	986.9	989.4	999.7	1020.3	1045.8	1075.0	1105.5	1138.8	1173.0	1191.9
15°	969.2	964.7	955.2	952.8	963.9	989.4	1023.2	1060.6	1100.5	1141.7	1165.1
17.5°	980.8	972.9	947.0	928.1	926.4	945.8	981.6	1023.6	1069.7	1119.9	1149.1
20°	1053.2	1034.7	970.9	926.9	911.6	921.1	952.4	996.8	1051.1	1117.8	1155.3
22.5°	1226.5	1199.3	1063.9	982.0	930.6	919.0	942.5	989.8	1053.2	1143.3	1191.1
25°	1478.8	1440.1	1223.6	1119.5	1013.3	952.0	957.3	1005.9	1082.4	1202.6	1260.2
27.5°	1678.0	1652.9	1432.3	1313.3	1163.9	1040.9	1005.5	1046.2	1142.1	1299.7	1358.6
30°	1796.5	1781.3	1655.3	1533.1	1356.1	1182.4	1097.7	1121.9	1235.5	1434.3	1482.9
32.5°	1934.0	1924.9	1863.2	1750.8	1563.5	1368.5	1243.8	1235.1	1360.6	1596.1	1618.3
35°	2076.4	2073.5	2037.3	1956.6	1786.2	1613.8	1437.6	1379.2	1496.9	1764.0	1750.0
37.5°	2208.9	2203.9	2183.0	2136.0	2019.2	1877.2	1635.2	1526.9	1643.8	1924.5	1862.3
40°	2452.9	2414.3	2342.2	2306.8	2254.6	2099.0	1792.0	1664.8	1796.1	2077.6	1959.5
42.5°	2750.5	2687.5	2553.4	2504.8	2497.4	2273.9	1899.0	1798.6	1949.6	2229.5	2055.0
45°	2984.7	2925.4	2809.8	2748.4	2775.6	2432.4	2006.4	1941.4	2107.6	2388.7	2153.3
47.5°	3234.5	3141.5	2988.4	3006.9	3066.2	2582.2	2115.9	2094.9	2280.9	2566.9	2275.6
50°	3243.6	3172.4	3105.3	3216.0	3308.2	2720.1	2252.9	2255.8	2492.9	2791.3	2438.1
52.5°	3055.5	3040.3	3146.8	3320.9	3453.9	2829.1	2408.9	2422.1	2764.1	3048.9	2616.7
55°	2989.6	2972.3	3095.4	3284.3	3473.6	2919.2	2578.1	2601.9	3092.1	3320.5	2790.8
57.5°	3150.1	3111.9	3120.1	3267.0	3425.5	3018.0	2762.4	2810.6	3448.5	3558.0	2902.8
60°	3598.7	3516.8	3361.3	3357.6	3451.4	3166.2	2975.6	3034.5	3818.9	3671.6	2859.2
62.5°	4228.0	4146.1	3854.7	3665.0	3651.0	3410.7	3237.4	3253.0	4033.0	3517.7	2592.9
65°	4909.2	4835.9	4510.4	4242.4	4113.2	3815.6	3541.5	3350.6	3963.0	3094.2	2127.0
67.5°	5736.0	5657.4	5377.5	5130.2	5005.9	4469.2	3755.1	3257.1	3518.9	2397.0	1529.0
70°	6314.3	6234.0	6123.7	6324.1	6628.3	5412.1	3782.7	2877.3	2628.3	1593.2	920.3
72.5°	5559.9	5522.4	5723.7	6567.8	7834.6	5984.2	3419.3	2094.9	1526.5	845.8	532.6
73°	5094.0	5085.7	5429.0	6397.0	7843.2	5896.1	3260.0	1947.1	1309.2	748.2	486.9
75°	2300.3	2366.5	3118.9	4886.1	6814.3	4858.6	2294.5	1117.0	739.6	516.9	367.5
77.5°	552.7	575.8	975.8	2320.4	4303.4	2895.4	1039.6	552.3	472.9	365.1	268.3
80°	235.4	243.2	375.8	857.3	2026.1	1166.0	479.1	370.0	327.2	254.8	188.1
82.5°	130.9	139.1	213.2	388.9	817.8	397.6	292.2	257.6	215.2	153.5	122.2
85°	74.1	78.6	124.7	217.3	346.5	159.7	174.9	171.2	121.4	79.0	60.1
87.5°	35.0	37.9	60.1	100.8	135.8	62.6	88.9	98.0	76.1	48.2	31.3
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: P300362

CATALOG NUMBER: GLNA-AF-02-LED-E1-T4FT-7027-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1292.7	1300.1	1308.8	1313.3	1317.4	1322.4	1327.3	1327.3	1328.1	1328.5
5°	1283.7	1298.9	1312.5	1318.3	1319.5	1319.5	1318.3	1311.7	1305.9	1308.4
7.5°	1264.7	1287.0	1298.5	1296.4	1280.8	1262.7	1247.5	1228.9	1219.5	1217.8
10°	1237.6	1263.1	1265.2	1244.6	1205.9	1167.2	1135.1	1103.8	1089.0	1085.3
12.5°	1207.5	1231.0	1217.8	1175.4	1113.3	1056.9	1016.2	984.5	970.5	966.8
15°	1183.3	1199.3	1166.0	1099.3	1021.1	961.4	927.7	904.2	894.3	891.5
17.5°	1170.5	1173.8	1112.9	1022.7	939.6	889.8	868.8	857.7	854.0	851.9
20°	1176.7	1153.6	1062.3	951.5	872.9	838.0	833.0	830.1	829.3	828.1
22.5°	1207.5	1147.5	1015.7	884.0	814.5	799.3	803.4	803.0	802.1	801.3
25°	1262.7	1152.8	970.5	819.8	765.5	762.2	769.6	769.6	766.3	766.3
27.5°	1335.5	1163.9	919.9	758.9	721.1	721.5	727.2	725.6	721.9	719.4
30°	1424.4	1170.9	860.6	704.2	679.5	677.9	679.5	672.5	661.4	660.6
32.5°	1515.4	1162.3	791.9	655.6	635.5	631.8	630.5	620.6	607.9	604.2
35°	1597.7	1130.6	721.9	616.9	593.5	585.2	591.0	587.7	576.2	573.3
37.5°	1657.8	1071.7	658.9	582.8	563.4	561.4	565.1	566.3	552.7	549.9
40°	1698.1	991.9	605.0	554.0	557.7	549.9	537.5	528.9	524.7	523.5
42.5°	1730.6	908.7	559.7	540.4	558.9	536.3	509.5	495.5	502.9	506.2
45°	1768.1	827.7	521.9	523.5	552.7	520.6	490.2	476.6	479.5	480.3
47.5°	1819.5	728.9	481.1	496.4	532.2	509.9	478.2	458.9	445.3	439.1
50°	1890.7	612.0	438.7	465.9	512.0	502.1	459.7	439.1	414.0	408.3
52.5°	1940.1	502.9	403.7	440.4	493.9	486.5	444.9	418.2	391.8	386.9
55°	1913.4	417.7	373.3	412.0	470.0	467.1	432.6	396.8	376.2	372.1
57.5°	1779.6	363.8	349.8	385.2	440.8	450.7	416.1	378.6	363.8	360.9
60°	1524.4	330.1	335.0	367.1	416.9	434.2	399.6	368.8	358.9	356.8
62.5°	1182.8	307.4	323.9	353.9	398.4	422.7	390.6	367.5	363.8	361.4
65°	847.4	289.3	312.0	340.8	381.5	412.0	387.3	365.9	366.7	364.6
67.5°	575.8	273.3	297.6	326.0	365.1	402.5	382.8	360.1	370.4	367.9
70°	402.9	257.6	280.7	307.0	344.5	389.3	374.5	351.5	350.7	340.8
72.5°	314.4	237.1	257.6	280.7	318.1	370.8	358.1	332.1	318.6	308.3
73°	300.0	232.1	251.9	274.9	312.4	366.3	353.5	326.8	311.6	302.1
75°	248.2	210.7	228.8	249.4	287.7	344.9	331.3	302.5	283.2	277.4
77.5°	195.1	180.3	197.6	216.1	253.5	313.6	298.4	270.8	260.1	255.2
80°	144.5	149.4	164.6	181.1	219.8	280.3	266.7	239.1	286.9	274.9
82.5°	101.7	113.2	127.2	142.0	184.4	247.8	231.3	202.9	209.9	174.5
85°	60.1	74.1	87.3	100.0	132.9	205.4	191.0	161.7	132.5	126.4
87.5°	35.0	41.2	44.9	58.0	91.4	154.7	134.6	119.8	68.7	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)