

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: P300297

Luminaire Tested: **GLNA-AF-01-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300297
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-01-LED-E1-T4FT-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6044.2 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

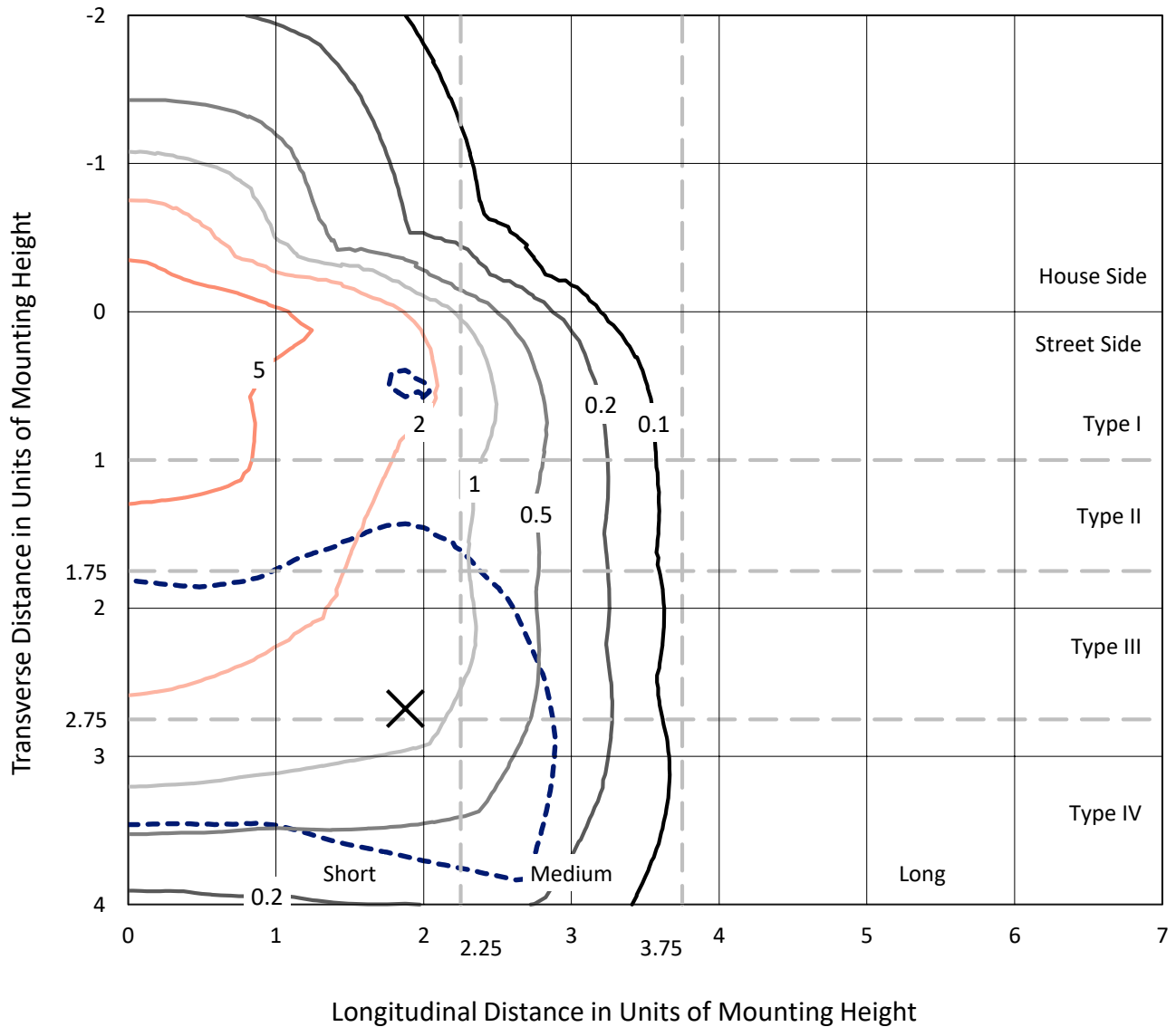
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300297
 CATALOG NUMBER: GLNA-AF-01-LED-E1-T4FT-7030

Iso-Footcandle Lines of Horizontal Illumination

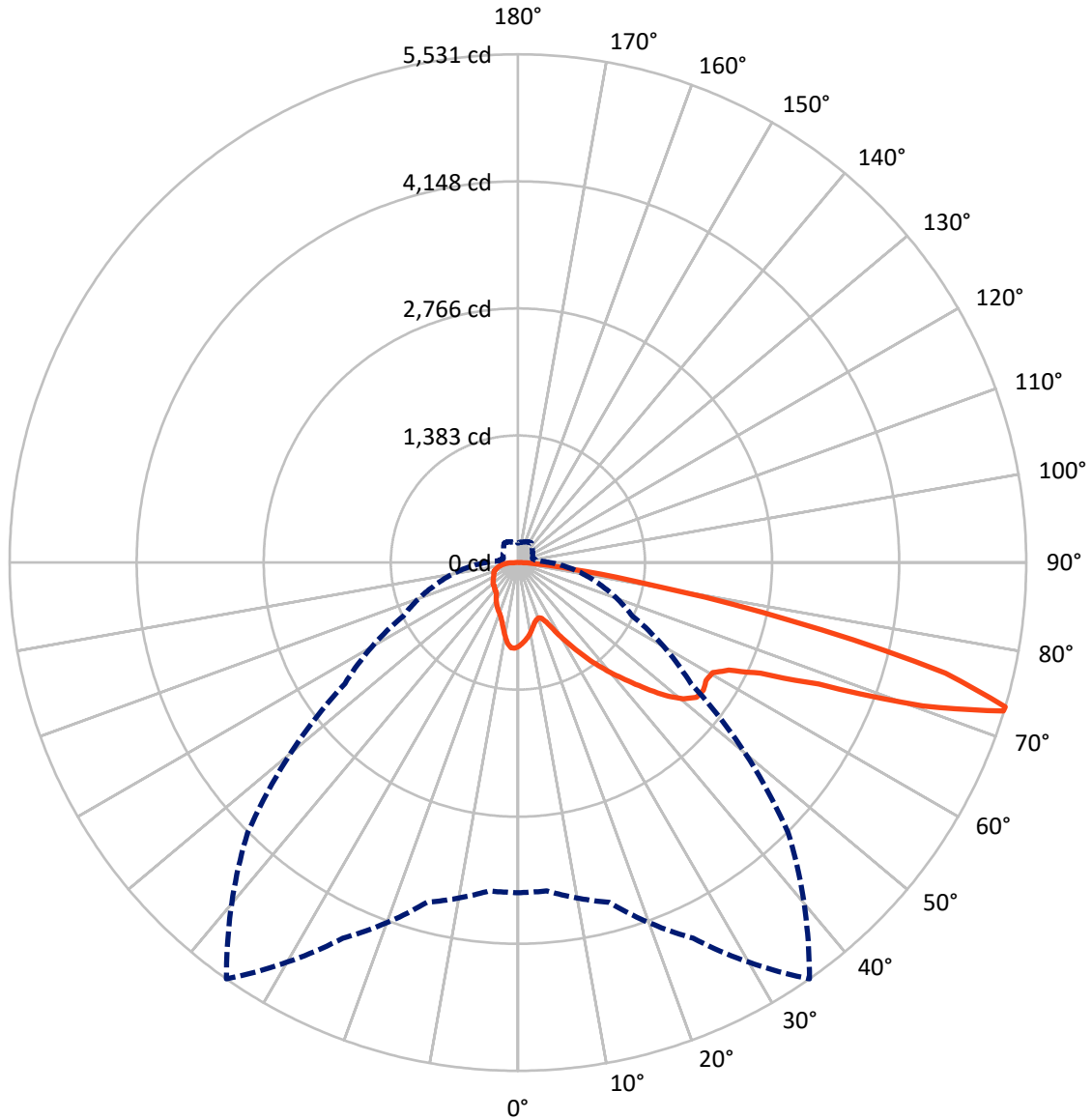
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P300297
CATALOG NUMBER: GLNA-AF-01-LED-E1-T4FT-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P300297

CATALOG NUMBER: GLNA-AF-01-LED-E1-T4FT-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1152.8	0.0	1152.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4891.4	0.0	4891.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	6044.2	0.0	6044.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	1.4
10°-20°	206.1	3.4
20°-30°	333.2	5.5
30°-40°	558.8	9.2
40°-50°	861.3	14.3
50°-60°	1155.5	19.1
60°-70°	1539.4	25.5
70°-80°	1174.1	19.4
80°-90°	133.1	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°	6044.2	100.0
0°-180°	6044.2	100.0



REPORT NUMBER: P300297

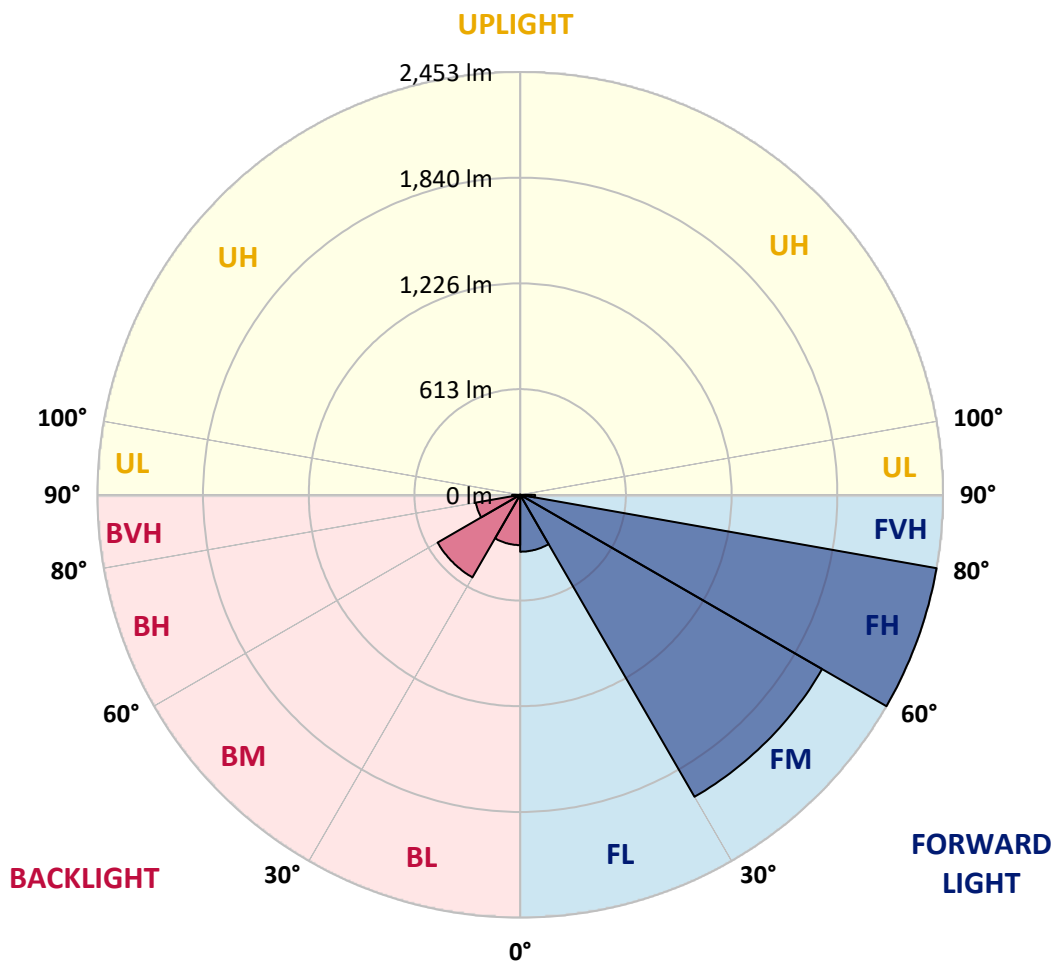
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	330.2	5.5			
FM	(30°-60°)	2022.4	33.5			
FH	(60°-80°)	2452.7	40.6			G2/5000
FVH	(80°-90°)	86.0	1.4			G1/100
BL	(0°-30°)	291.7	4.8	B1/500		
BM	(30°-60°)	553.2	9.2	B1/1000		
BH	(60°-80°)	260.8	4.3	B1/500		G1/500
BVH	(80°-90°)	47.1	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: P300297

CATALOG NUMBER: GLNA-AF-01-LED-E1-T4FT-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3
2.5°	876.3	878.0	876.0	878.6	882.9	887.6	890.8	895.4	900.6	907.9	909.6
5°	835.0	837.7	837.7	842.3	850.7	858.3	865.2	872.8	883.8	896.3	901.2
7.5°	789.8	791.2	793.8	800.8	813.0	823.7	833.6	845.8	860.9	877.4	886.1
10°	735.2	737.2	741.3	751.2	767.7	782.5	796.7	813.6	832.7	853.3	864.4
12.5°	696.6	696.0	697.8	705.0	719.5	737.5	758.1	779.6	803.1	827.2	840.6
15°	683.5	680.3	673.7	671.9	679.8	697.8	721.6	748.0	776.1	805.1	821.7
17.5°	691.7	686.1	667.9	654.5	653.3	667.0	692.2	721.8	754.4	789.8	810.4
20°	742.7	729.7	684.7	653.6	642.9	649.6	671.6	703.0	741.3	788.3	814.7
22.5°	864.9	845.8	750.3	692.5	656.3	648.1	664.7	698.0	742.7	806.3	840.0
25°	1042.9	1015.6	862.9	789.5	714.6	671.3	675.1	709.4	763.4	848.1	888.7
27.5°	1183.3	1165.6	1010.1	926.2	820.8	734.0	709.1	737.8	805.4	916.6	958.1
30°	1266.9	1256.2	1167.4	1081.2	956.4	833.9	774.1	791.2	871.3	1011.5	1045.8
32.5°	1363.9	1357.5	1314.0	1234.7	1102.7	965.1	877.1	871.0	959.6	1125.6	1141.3
35°	1464.3	1462.3	1436.7	1379.8	1259.7	1138.1	1013.8	972.6	1055.6	1244.0	1234.1
37.5°	1557.8	1554.3	1539.5	1506.4	1424.0	1323.8	1153.2	1076.8	1159.3	1357.2	1313.4
40°	1729.9	1702.6	1651.8	1626.8	1590.0	1480.3	1263.7	1174.1	1266.6	1465.2	1381.9
42.5°	1939.7	1895.3	1800.7	1766.5	1761.2	1603.6	1339.2	1268.4	1374.9	1572.3	1449.2
45°	2104.9	2063.1	1981.5	1938.3	1957.4	1715.4	1415.0	1369.1	1486.4	1684.6	1518.6
47.5°	2281.1	2215.5	2107.5	2120.6	2162.4	1821.0	1492.2	1477.4	1608.6	1810.3	1604.8
50°	2287.4	2237.2	2189.9	2268.0	2333.0	1918.3	1588.8	1590.9	1758.0	1968.5	1719.4
52.5°	2154.8	2144.1	2219.2	2342.0	2435.8	1995.2	1698.8	1708.1	1949.3	2150.2	1845.4
55°	2108.4	2096.2	2183.0	2316.2	2449.7	2058.7	1818.1	1835.0	2180.6	2341.7	1968.2
57.5°	2221.6	2194.6	2200.4	2304.0	2415.7	2128.4	1948.1	1982.1	2432.0	2509.2	2047.1
60°	2537.9	2480.2	2370.5	2367.8	2434.0	2232.9	2098.5	2140.0	2693.2	2589.3	2016.4
62.5°	2981.7	2924.0	2718.5	2584.7	2574.8	2405.3	2283.1	2294.1	2844.1	2480.8	1828.6
65°	3462.1	3410.4	3180.8	2991.9	2900.7	2690.9	2497.6	2362.9	2794.8	2182.1	1500.0
67.5°	4045.2	3989.8	3792.4	3617.9	3530.3	3151.8	2648.2	2297.0	2481.6	1690.4	1078.3
70°	4453.0	4396.4	4318.6	4460.0	4674.5	3816.8	2667.7	2029.1	1853.5	1123.6	649.0
72.5°	3921.0	3894.6	4036.5	4631.8	5525.2	4220.2	2411.4	1477.4	1076.5	596.5	375.6
73°	3592.4	3586.6	3828.7	4511.3	5531.3	4158.1	2299.1	1373.2	923.3	527.7	343.4
75°	1622.2	1668.9	2199.5	3445.8	4805.6	3426.4	1618.1	787.7	521.6	364.6	259.2
77.5°	389.8	406.1	688.2	1636.4	3034.8	2041.9	733.2	389.5	333.5	257.5	189.2
80°	166.0	171.5	265.0	604.6	1428.9	822.3	337.8	260.9	230.7	179.7	132.6
82.5°	92.3	98.1	150.3	274.3	576.7	280.4	206.1	181.7	151.8	108.3	86.2
85°	52.2	55.4	87.9	153.3	244.4	112.6	123.4	120.7	85.6	55.7	42.4
87.5°	24.7	26.7	42.4	71.1	95.8	44.1	62.7	69.1	53.7	34.0	22.1
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: P300297

CATALOG NUMBER: GLNA-AF-01-LED-E1-T4FT-7030

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3	912.3
2.5°	911.7	916.9	923.0	926.2	929.1	932.6	936.1	936.1	936.6	936.9
5°	905.3	916.0	925.6	929.7	930.5	930.5	929.7	925.0	921.0	922.7
7.5°	891.9	907.6	915.7	914.3	903.3	890.5	879.7	866.7	860.0	858.8
10°	872.8	890.8	892.2	877.7	850.4	823.1	800.5	778.4	768.0	765.4
12.5°	851.6	868.1	858.8	828.9	785.1	745.4	716.6	694.3	684.4	681.8
15°	834.5	845.8	822.3	775.3	720.1	678.0	654.2	637.7	630.7	628.7
17.5°	825.5	827.8	784.8	721.3	662.6	627.5	612.7	604.9	602.3	600.8
20°	829.8	813.6	749.1	671.1	615.6	590.9	587.5	585.4	584.9	584.0
22.5°	851.6	809.2	716.3	623.5	574.4	563.7	566.6	566.3	565.7	565.1
25°	890.5	813.0	684.4	578.2	539.9	537.5	542.8	542.8	540.4	540.4
27.5°	941.9	820.8	648.7	535.2	508.5	508.8	512.9	511.7	509.1	507.4
30°	1004.5	825.8	606.9	496.6	479.2	478.0	479.2	474.3	466.4	465.8
32.5°	1068.7	819.7	558.4	462.4	448.1	445.5	444.7	437.7	428.7	426.1
35°	1126.7	797.3	509.1	435.1	418.5	412.7	416.8	414.5	406.3	404.3
37.5°	1169.1	755.8	464.7	411.0	397.4	395.9	398.5	399.4	389.8	387.8
40°	1197.6	699.5	426.7	390.7	393.3	387.8	379.1	373.0	370.1	369.2
42.5°	1220.5	640.9	394.7	381.1	394.2	378.2	359.3	349.5	354.7	357.0
45°	1246.9	583.7	368.0	369.2	389.8	367.2	345.7	336.1	338.1	338.7
47.5°	1283.2	514.0	339.3	350.0	375.3	359.6	337.3	323.6	314.0	309.7
50°	1333.4	431.6	309.4	328.6	361.1	354.1	324.2	309.7	292.0	287.9
52.5°	1368.2	354.7	284.7	310.6	348.3	343.1	313.8	294.9	276.3	272.8
55°	1349.4	294.6	263.3	290.5	331.5	329.4	305.1	279.8	265.3	262.4
57.5°	1255.0	256.6	246.7	271.7	310.9	317.8	293.4	267.0	256.6	254.5
60°	1075.1	232.8	236.3	258.9	294.0	306.2	281.8	260.1	253.1	251.6
62.5°	834.2	216.8	228.4	249.6	281.0	298.1	275.4	259.2	256.6	254.8
65°	597.6	204.0	220.0	240.3	269.1	290.5	273.1	258.0	258.6	257.2
67.5°	406.1	192.7	209.8	229.9	257.5	283.9	269.9	254.0	261.2	259.5
70°	284.2	181.7	197.9	216.5	242.9	274.6	264.1	247.9	247.3	240.3
72.5°	221.7	167.2	181.7	197.9	224.4	261.5	252.5	234.2	224.7	217.4
73°	211.6	163.7	177.6	193.9	220.3	258.3	249.3	230.5	219.7	213.0
75°	175.0	148.6	161.4	175.9	202.9	243.2	233.6	213.3	199.7	195.6
77.5°	137.6	127.1	139.3	152.4	178.8	221.2	210.4	191.0	183.4	180.0
80°	101.9	105.4	116.1	127.7	155.0	197.7	188.1	168.6	202.3	193.9
82.5°	71.7	79.8	89.7	100.1	130.0	174.7	163.1	143.1	148.0	123.1
85°	42.4	52.2	61.5	70.5	93.8	144.8	134.7	114.1	93.5	89.1
87.5°	24.7	29.0	31.6	40.9	64.4	109.1	94.9	84.5	48.5	32.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)