

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: P300417

Luminaire Tested: **GLNA-AF-01-LED-E1-T4FT-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300417
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-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3981.7 lumens
Efficiency: N/A
Efficacy: 117.1 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 - G1

Input Watts (W): 34
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

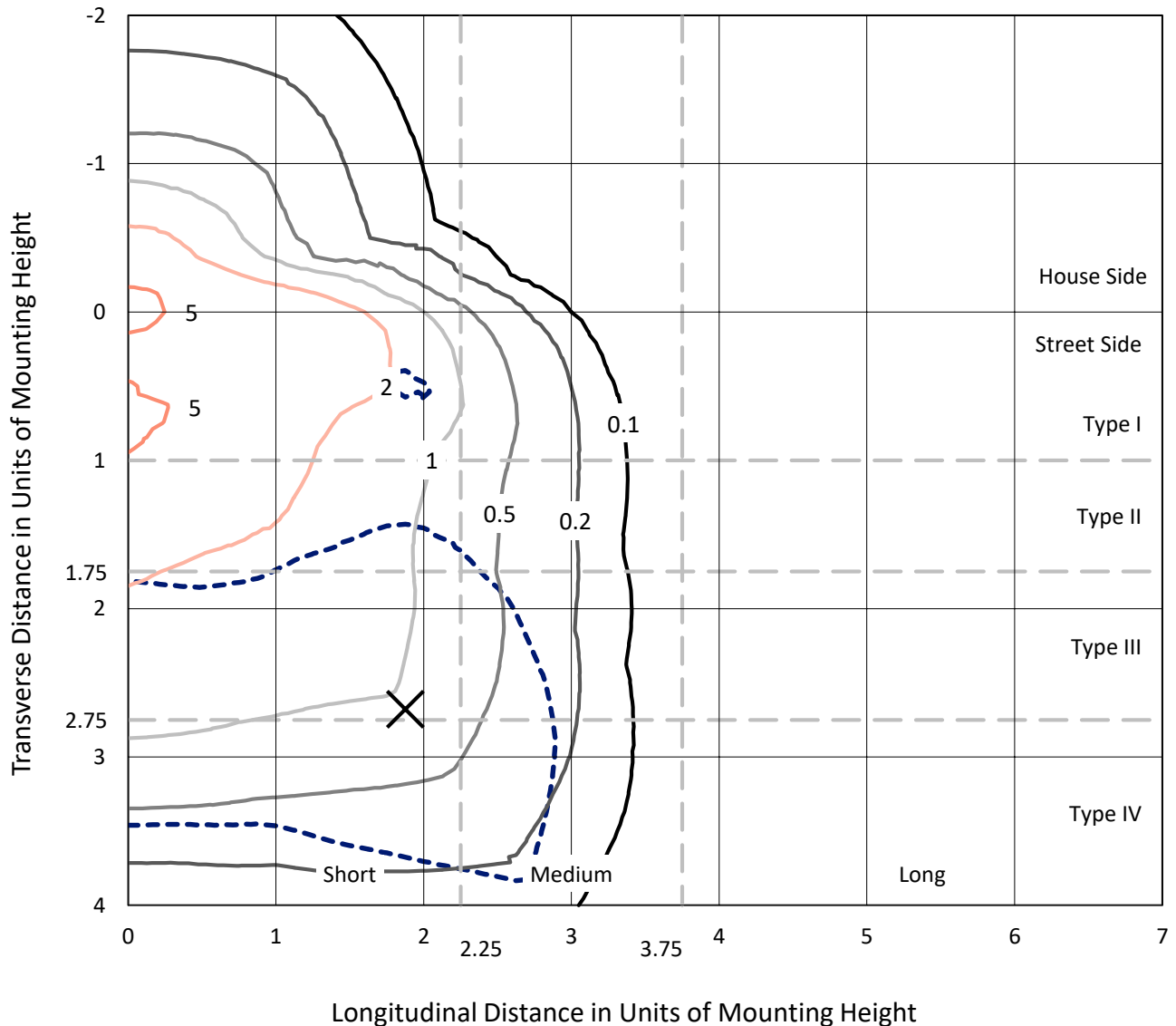


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Iso-Footcandle Lines of Horizontal Illumination

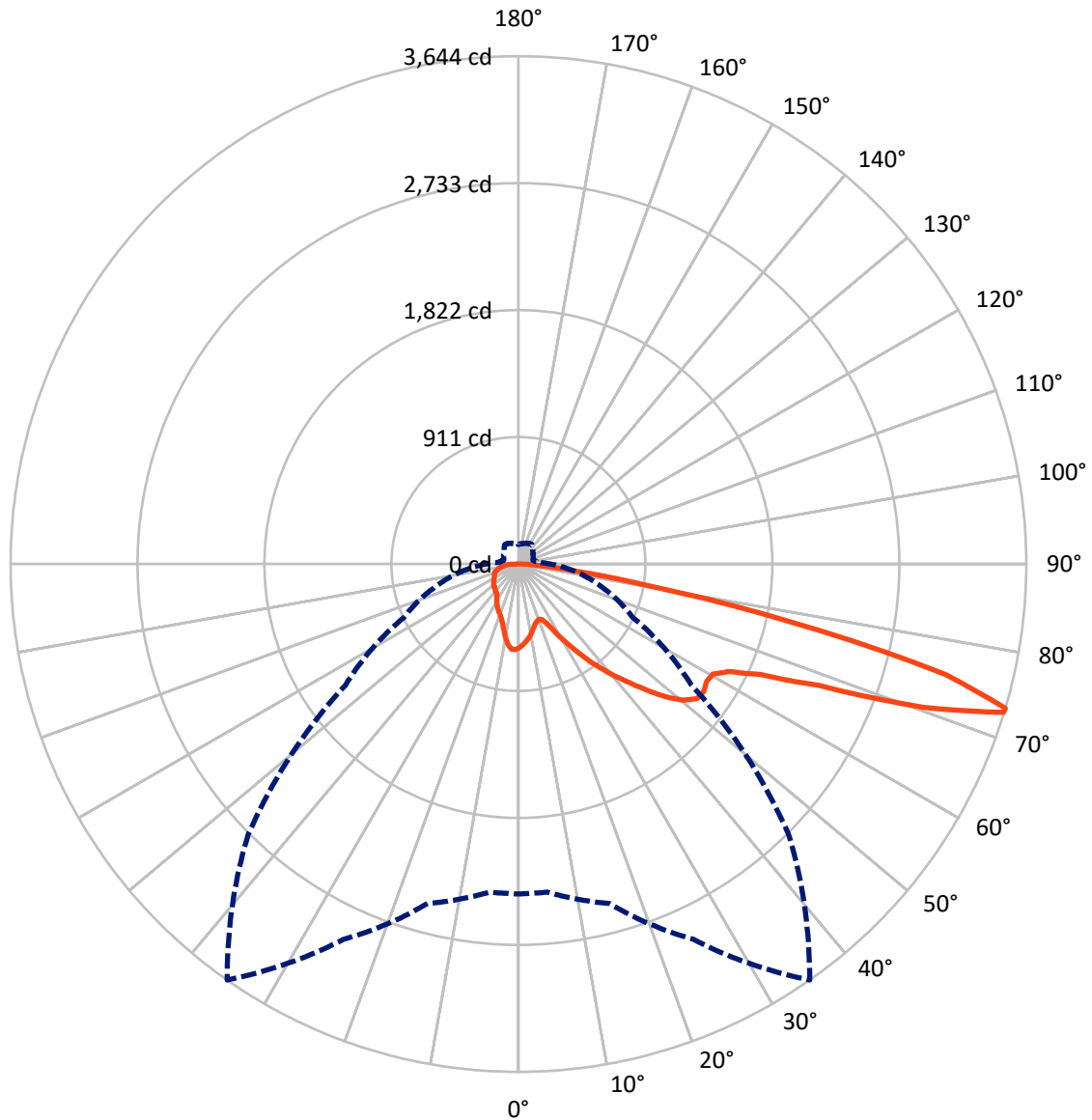
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	759.4	0.0	759.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3222.3	0.0	3222.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	3981.7	0.0	3981.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	1.4
10°-20°	135.8	3.4
20°-30°	219.5	5.5
30°-40°	368.1	9.2
40°-50°	567.4	14.3
50°-60°	761.2	19.1
60°-70°	1014.1	25.5
70°-80°	773.5	19.4
80°-90°	87.7	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°	3981.7	100.0
0°-180°	3981.7	100.0



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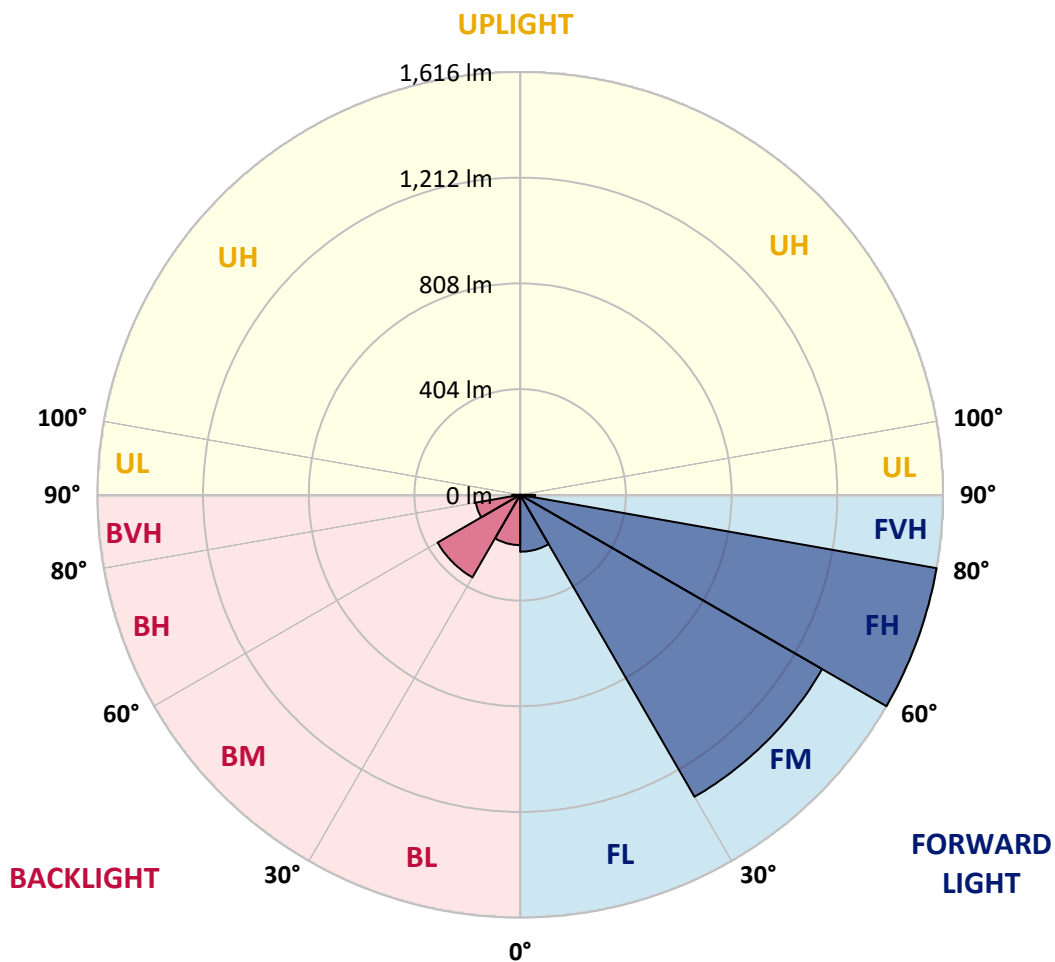
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.5	5.5			
FM (30°-60°)	1332.3	33.5			
FH (60°-80°)	1615.8	40.6			G1/1800
FVH (80°-90°)	56.7	1.4			G1/100
BL (0°-30°)	192.2	4.8	B1/500		
BM (30°-60°)	364.4	9.2	B1/1000		
BH (60°-80°)	171.8	4.3	B1/500		G1/500
BVH (80°-90°)	31.0	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
2.5°	577.2	578.4	577.1	578.8	581.6	584.7	586.8	589.9	593.3	598.1	599.2
5°	550.1	551.8	551.8	554.9	560.4	565.4	570.0	575.0	582.2	590.4	593.7
7.5°	520.3	521.2	522.9	527.5	535.6	542.6	549.1	557.2	567.1	578.0	583.7
10°	484.3	485.7	488.3	494.8	505.7	515.5	524.9	535.9	548.6	562.1	569.4
12.5°	458.9	458.5	459.7	464.4	474.0	485.9	499.4	513.6	529.1	544.9	553.7
15°	450.3	448.2	443.8	442.6	447.8	459.7	475.3	492.7	511.3	530.4	541.3
17.5°	455.6	452.0	440.0	431.2	430.4	439.4	456.0	475.5	496.9	520.3	533.8
20°	489.3	480.7	451.1	430.6	423.5	427.9	442.4	463.1	488.3	519.3	536.7
22.5°	569.8	557.2	494.3	456.2	432.3	427.0	437.9	459.8	489.3	531.2	553.3
25°	687.0	669.0	568.5	520.1	470.7	442.3	444.7	467.3	502.9	558.7	585.5
27.5°	779.5	767.9	665.4	610.1	540.7	483.6	467.1	486.0	530.6	603.8	631.2
30°	834.6	827.5	769.0	712.2	630.0	549.3	509.9	521.2	574.0	666.3	688.9
32.5°	898.5	894.3	865.6	813.4	726.4	635.8	577.8	573.8	632.1	741.5	751.8
35°	964.6	963.3	946.5	909.0	829.8	749.7	667.9	640.7	695.4	819.5	813.0
37.5°	1026.2	1023.9	1014.2	992.4	938.1	872.1	759.7	709.4	763.7	894.1	865.2
40°	1139.6	1121.6	1088.1	1071.7	1047.4	975.1	832.5	773.4	834.4	965.2	910.3
42.5°	1277.8	1248.6	1186.2	1163.7	1160.2	1056.4	882.2	835.6	905.7	1035.8	954.7
45°	1386.6	1359.1	1305.4	1276.9	1289.5	1130.0	932.1	901.9	979.2	1109.8	1000.4
47.5°	1502.7	1459.5	1388.3	1396.9	1424.5	1199.6	983.0	973.2	1059.7	1192.5	1057.2
50°	1506.9	1473.8	1442.6	1494.1	1536.9	1263.7	1046.7	1048.0	1158.1	1296.8	1132.7
52.5°	1419.5	1412.4	1462.0	1542.8	1604.6	1314.3	1119.1	1125.2	1284.1	1416.4	1215.7
55°	1388.9	1380.9	1438.1	1525.8	1613.8	1356.2	1197.7	1208.8	1436.5	1542.6	1296.6
57.5°	1463.5	1445.7	1449.5	1517.8	1591.4	1402.1	1283.4	1305.7	1602.1	1653.0	1348.6
60°	1671.9	1633.8	1561.6	1559.9	1603.4	1470.9	1382.4	1409.8	1774.2	1705.7	1328.3
62.5°	1964.3	1926.2	1790.8	1702.7	1696.2	1584.5	1504.0	1511.3	1873.6	1634.2	1204.6
65°	2280.7	2246.7	2095.4	1970.9	1910.9	1772.7	1645.3	1556.6	1841.1	1437.5	988.1
67.5°	2664.8	2628.3	2498.3	2383.4	2325.6	2076.3	1744.6	1513.2	1634.8	1113.6	710.3
70°	2933.5	2896.2	2844.9	2938.1	3079.4	2514.3	1757.4	1336.7	1221.0	740.2	427.5
72.5°	2583.0	2565.6	2659.1	3051.3	3639.8	2780.1	1588.5	973.2	709.2	392.9	247.4
73°	2366.5	2362.7	2522.2	2971.9	3643.8	2739.2	1514.5	904.6	608.2	347.6	226.2
75°	1068.6	1099.4	1449.0	2270.0	3165.8	2257.2	1066.0	518.9	343.6	240.2	170.7
77.5°	256.8	267.5	453.3	1078.0	1999.2	1345.1	483.0	256.6	219.7	169.6	124.7
80°	109.4	113.0	174.6	398.3	941.3	541.7	222.6	171.9	152.0	118.4	87.4
82.5°	60.8	64.6	99.0	180.7	379.9	184.7	135.8	119.7	100.0	71.3	56.8
85°	34.4	36.5	57.9	101.0	161.0	74.2	81.3	79.5	56.4	36.7	27.9
87.5°	16.3	17.6	27.9	46.8	63.1	29.1	41.3	45.5	35.4	22.4	14.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0	601.0
2.5°	600.6	604.0	608.0	610.1	612.0	614.3	616.6	616.6	617.0	617.2
5°	596.4	603.4	609.8	612.4	613.0	613.0	612.4	609.4	606.7	607.8
7.5°	587.6	597.9	603.3	602.3	595.0	586.6	579.5	570.9	566.5	565.8
10°	575.0	586.8	587.8	578.2	560.2	542.3	527.3	512.8	505.9	504.2
12.5°	561.0	571.9	565.8	546.1	517.2	491.0	472.1	457.4	450.9	449.1
15°	549.7	557.2	541.7	510.7	474.4	446.7	431.0	420.1	415.5	414.2
17.5°	543.8	545.3	517.0	475.1	436.5	413.4	403.6	398.5	396.8	395.8
20°	546.7	535.9	493.5	442.1	405.5	389.3	387.0	385.7	385.3	384.7
22.5°	561.0	533.1	471.9	410.7	378.4	371.3	373.2	373.0	372.7	372.3
25°	586.6	535.6	450.9	380.9	355.6	354.1	357.6	357.6	356.0	356.0
27.5°	620.5	540.7	427.3	352.6	335.0	335.2	337.9	337.1	335.4	334.2
30°	661.8	544.0	399.8	327.2	315.7	314.9	315.7	312.4	307.3	306.9
32.5°	704.0	540.0	367.9	304.6	295.2	293.5	292.9	288.3	282.4	280.7
35°	742.3	525.2	335.4	286.6	275.7	271.9	274.6	273.0	267.7	266.3
37.5°	770.2	497.9	306.1	270.7	261.8	260.8	262.5	263.1	256.8	255.5
40°	788.9	460.8	281.1	257.4	259.1	255.5	249.7	245.7	243.8	243.2
42.5°	804.0	422.2	260.0	251.1	259.7	249.1	236.7	230.2	233.7	235.2
45°	821.4	384.5	242.4	243.2	256.8	241.9	227.7	221.4	222.8	223.1
47.5°	845.3	338.6	223.5	230.6	247.2	236.9	222.2	213.2	206.9	204.0
50°	878.4	284.3	203.8	216.4	237.9	233.3	213.6	204.0	192.4	189.7
52.5°	901.3	233.7	187.6	204.6	229.4	226.0	206.7	194.3	182.0	179.7
55°	888.9	194.1	173.4	191.4	218.4	217.0	201.0	184.3	174.8	172.8
57.5°	826.8	169.0	162.5	179.0	204.8	209.4	193.3	175.9	169.0	167.7
60°	708.2	153.3	155.6	170.6	193.7	201.7	185.7	171.3	166.7	165.8
62.5°	549.5	142.8	150.5	164.4	185.1	196.4	181.5	170.7	169.0	167.9
65°	393.7	134.4	144.9	158.3	177.2	191.4	179.9	170.0	170.4	169.4
67.5°	267.5	127.0	138.2	151.4	169.6	187.0	177.8	167.3	172.1	170.9
70°	187.2	119.7	130.4	142.6	160.0	180.9	174.0	163.3	162.9	158.3
72.5°	146.1	110.1	119.7	130.4	147.8	172.3	166.3	154.3	148.0	143.2
73°	139.4	107.8	117.0	127.7	145.1	170.2	164.2	151.8	144.7	140.3
75°	115.3	97.9	106.3	115.9	133.7	160.2	153.9	140.5	131.5	128.9
77.5°	90.6	83.7	91.8	100.4	117.8	145.7	138.6	125.8	120.8	118.5
80°	67.1	69.4	76.5	84.1	102.1	130.2	123.9	111.1	133.3	127.7
82.5°	47.2	52.6	59.1	66.0	85.7	115.1	107.5	94.3	97.5	81.1
85°	27.9	34.4	40.5	46.5	61.8	95.4	88.7	75.1	61.6	58.7
87.5°	16.3	19.1	20.8	27.0	42.4	71.9	62.5	55.6	31.9	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)