

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: P300357

Luminaire Tested: **GLNA-AF-01-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300357
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K 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: 4883 lumens
Efficiency: N/A
Efficacy: 111.0 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): 44
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

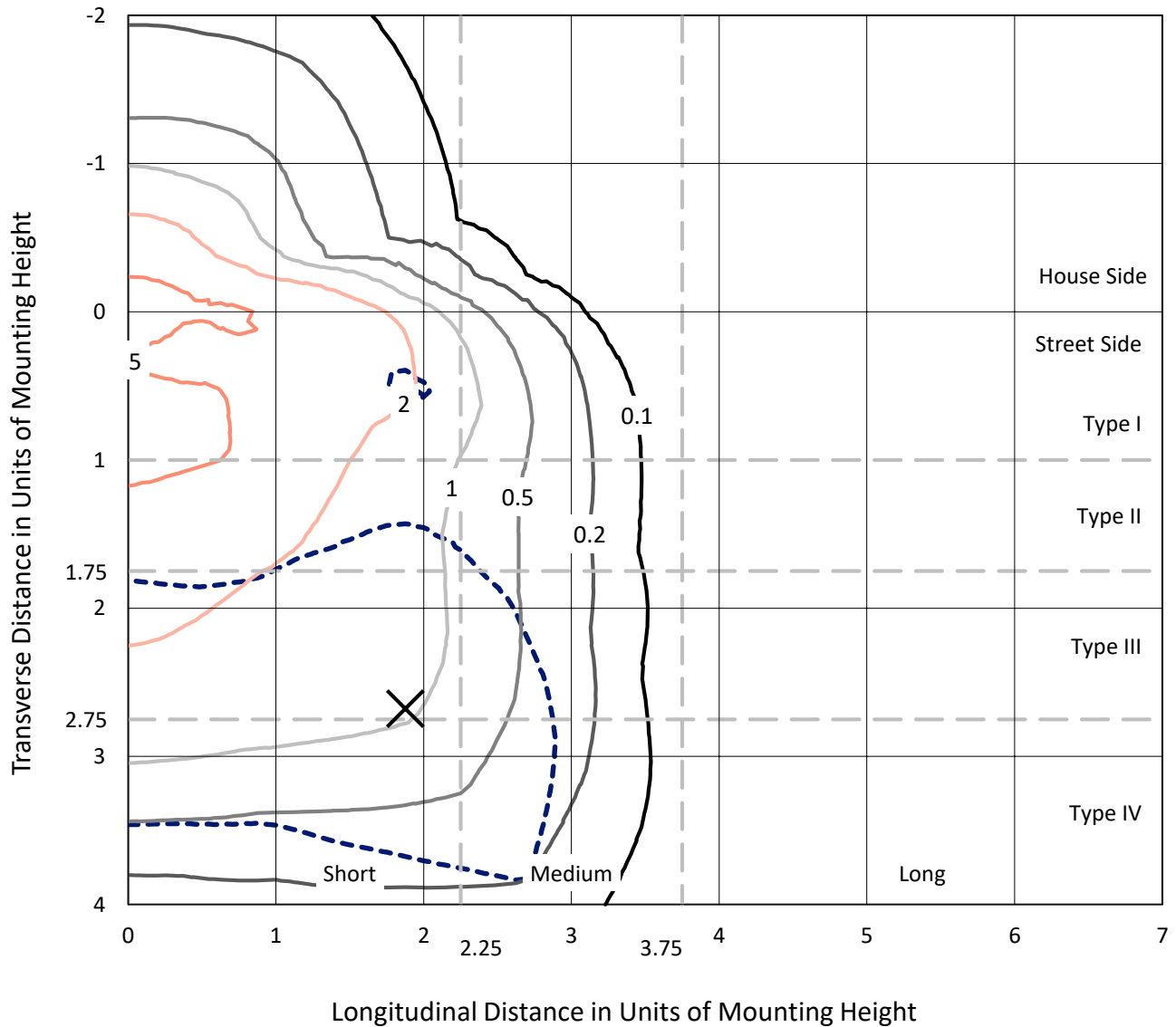


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Iso-Footcandle Lines of Horizontal Illumination

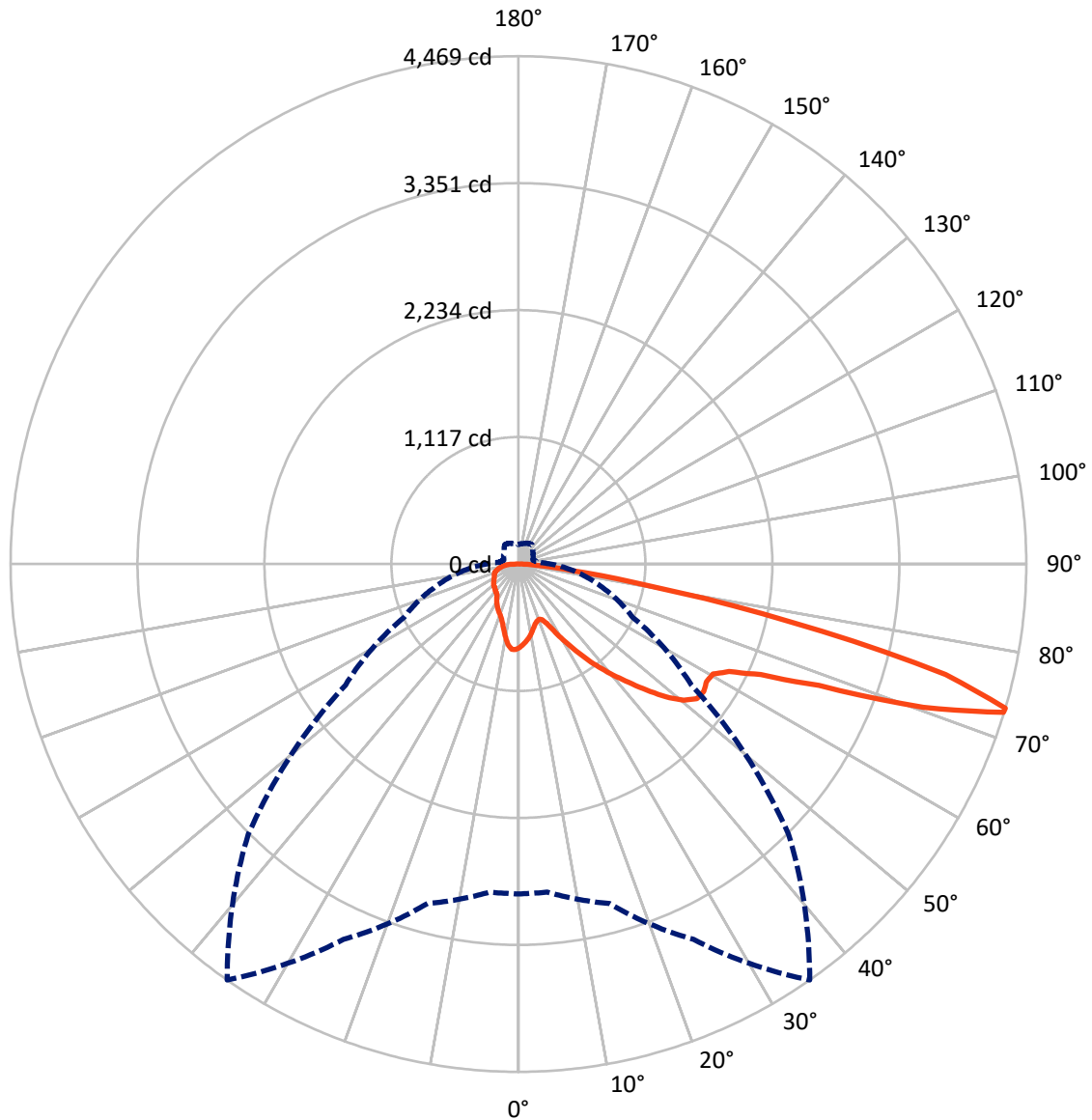
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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	931.3	0.0	931.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3951.6	0.0	3951.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	4883.0	0.0	4883.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.4
10°-20°	166.5	3.4
20°-30°	269.2	5.5
30°-40°	451.4	9.2
40°-50°	695.8	14.3
50°-60°	933.5	19.1
60°-70°	1243.7	25.5
70°-80°	948.5	19.4
80°-90°	107.5	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°	4883.0	100.0
0°-180°	4883.0	100.0



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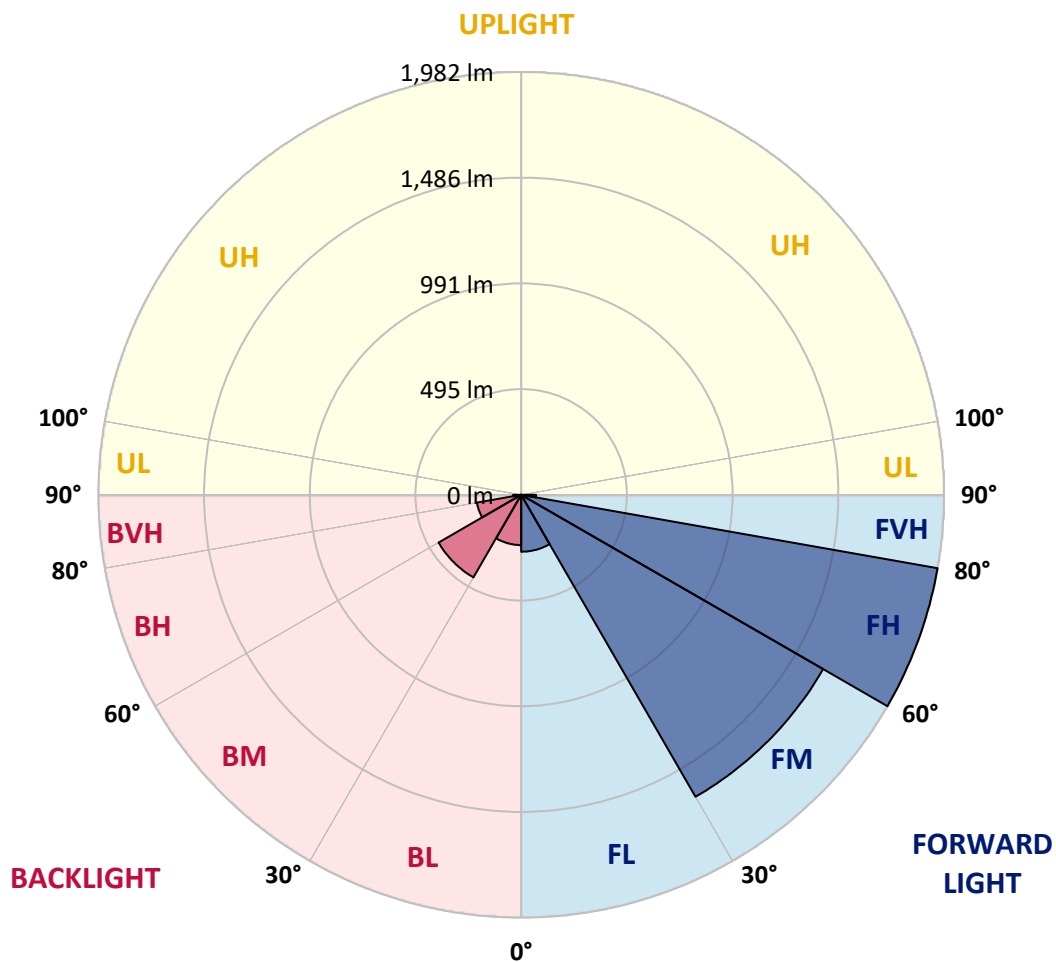
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.8	5.5			
FM	(30°-60°)	1633.9	33.5			
FH	(60°-80°)	1981.5	40.6			G2/5000
FVH	(80°-90°)	69.5	1.4			G1/100
BL	(0°-30°)	235.7	4.8	B1/500		
BM	(30°-60°)	446.9	9.2	B1/1000		
BH	(60°-80°)	210.7	4.3	B1/500		G1/500
BVH	(80°-90°)	38.0	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	707.9	709.3	707.7	709.8	713.3	717.1	719.6	723.4	727.6	733.5	734.9
5°	674.6	676.7	676.7	680.5	687.3	693.4	699.0	705.1	714.0	724.1	728.1
7.5°	638.0	639.2	641.3	646.9	656.8	665.5	673.4	683.3	695.5	708.9	715.9
10°	594.0	595.6	598.9	606.9	620.2	632.2	643.7	657.3	672.7	689.4	698.3
12.5°	562.8	562.3	563.7	569.6	581.3	595.8	612.5	629.8	648.8	668.3	679.1
15°	552.2	549.6	544.2	542.8	549.2	563.7	582.9	604.3	627.0	650.5	663.8
17.5°	558.8	554.3	539.6	528.8	527.8	538.8	559.2	583.2	609.4	638.0	654.7
20°	600.1	589.5	553.2	528.1	519.4	524.8	542.6	567.9	598.9	636.9	658.2
22.5°	698.8	683.3	606.1	559.5	530.2	523.6	537.0	563.9	600.1	651.4	678.6
25°	842.5	820.5	697.1	637.8	577.3	542.4	545.4	573.1	616.7	685.2	718.0
27.5°	956.0	941.7	816.0	748.2	663.1	593.0	572.8	596.1	650.7	740.5	774.0
30°	1023.5	1014.9	943.1	873.5	772.6	673.7	625.4	639.2	703.9	817.2	844.9
32.5°	1101.9	1096.7	1061.5	997.5	890.8	779.7	708.6	703.7	775.2	909.3	922.0
35°	1183.0	1181.3	1160.7	1114.7	1017.7	919.4	819.1	785.8	852.8	1005.0	997.0
37.5°	1258.5	1255.7	1243.7	1217.0	1150.4	1069.5	931.6	869.9	936.5	1096.5	1061.0
40°	1397.5	1375.5	1334.5	1314.3	1284.5	1195.9	1021.0	948.5	1023.3	1183.7	1116.4
42.5°	1567.1	1531.2	1454.8	1427.1	1422.9	1295.5	1081.9	1024.7	1110.8	1270.2	1170.8
45°	1700.5	1666.7	1600.8	1565.9	1581.4	1385.8	1143.1	1106.1	1200.8	1361.0	1226.8
47.5°	1842.8	1789.8	1702.6	1713.2	1746.9	1471.2	1205.5	1193.5	1299.5	1462.5	1296.5
50°	1848.0	1807.4	1769.2	1832.3	1884.8	1549.7	1283.6	1285.2	1420.3	1590.3	1389.1
52.5°	1740.8	1732.1	1792.9	1892.1	1967.8	1611.9	1372.4	1380.0	1574.8	1737.1	1490.9
55°	1703.3	1693.5	1763.6	1871.2	1979.1	1663.2	1468.8	1482.4	1761.7	1891.8	1590.1
57.5°	1794.8	1772.9	1777.6	1861.4	1951.6	1719.5	1573.9	1601.3	1964.8	2027.1	1653.8
60°	2050.3	2003.7	1915.0	1912.9	1966.4	1803.9	1695.3	1728.9	2175.8	2091.9	1629.0
62.5°	2408.9	2362.2	2196.2	2088.1	2080.1	1943.2	1844.5	1853.4	2297.7	2004.2	1477.3
65°	2797.0	2755.2	2569.7	2417.1	2343.5	2173.9	2017.8	1909.0	2257.9	1762.9	1211.8
67.5°	3268.0	3223.2	3063.8	2922.9	2852.1	2546.3	2139.5	1855.7	2004.9	1365.6	871.1
70°	3597.5	3551.8	3488.9	3603.1	3776.4	3083.5	2155.2	1639.3	1497.4	907.7	524.3
72.5°	3167.7	3146.3	3261.0	3741.9	4463.7	3409.4	1948.1	1193.5	869.7	481.9	303.4
73°	2902.2	2897.5	3093.1	3644.6	4468.6	3359.2	1857.4	1109.4	745.9	426.3	277.4
75°	1310.5	1348.3	1776.9	2783.8	3882.4	2768.1	1307.3	636.4	421.4	294.5	209.4
77.5°	314.9	328.0	556.0	1322.0	2451.8	1649.6	592.3	314.7	269.4	208.0	152.9
80°	134.1	138.6	214.1	488.4	1154.4	664.3	272.9	210.8	186.4	145.1	107.2
82.5°	74.6	79.3	121.5	221.6	465.9	226.5	166.5	146.8	122.6	87.5	69.6
85°	42.2	44.8	71.0	123.8	197.4	91.0	99.7	97.5	69.2	45.0	34.2
87.5°	19.9	21.6	34.2	57.4	77.4	35.6	50.6	55.8	43.4	27.4	17.8
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°	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0	737.0
2.5°	736.5	740.7	745.7	748.2	750.6	753.4	756.2	756.2	756.7	756.9
5°	731.4	740.0	747.8	751.1	751.8	751.8	751.1	747.3	744.0	745.4
7.5°	720.6	733.2	739.8	738.6	729.7	719.4	710.7	700.2	694.8	693.8
10°	705.1	719.6	720.8	709.1	687.0	665.0	646.7	628.9	620.5	618.3
12.5°	688.0	701.3	693.8	669.7	634.3	602.2	578.9	560.9	552.9	550.8
15°	674.1	683.3	664.3	626.3	581.8	547.8	528.5	515.2	509.5	507.9
17.5°	666.9	668.8	634.1	582.7	535.3	507.0	495.0	488.7	486.6	485.4
20°	670.4	657.3	605.2	542.1	497.3	477.4	474.6	473.0	472.5	471.8
22.5°	688.0	653.7	578.7	503.7	464.0	455.4	457.7	457.5	457.0	456.5
25°	719.4	656.8	552.9	467.1	436.1	434.3	438.5	438.5	436.6	436.6
27.5°	760.9	663.1	524.1	432.4	410.8	411.1	414.3	413.4	411.3	409.9
30°	811.6	667.1	490.3	401.2	387.1	386.2	387.1	383.2	376.8	376.4
32.5°	863.4	662.2	451.2	373.5	362.0	359.9	359.2	353.6	346.3	344.2
35°	910.3	644.1	411.3	351.5	338.1	333.4	336.7	334.8	328.3	326.6
37.5°	944.5	610.6	375.4	332.0	321.0	319.8	321.9	322.7	314.9	313.3
40°	967.5	565.1	344.7	315.6	317.7	313.3	306.2	301.3	299.0	298.3
42.5°	986.0	517.7	318.9	307.9	318.4	305.5	290.3	282.3	286.5	288.4
45°	1007.4	471.6	297.3	298.3	314.9	296.6	279.3	271.5	273.2	273.6
47.5°	1036.7	415.3	274.1	282.8	303.2	290.5	272.5	261.5	253.7	250.2
50°	1077.2	348.7	250.0	265.4	291.7	286.1	261.9	250.2	235.9	232.6
52.5°	1105.4	286.5	230.0	250.9	281.4	277.2	253.5	238.2	223.2	220.4
55°	1090.1	238.0	212.7	234.7	267.8	266.1	246.4	226.0	214.3	212.0
57.5°	1013.9	207.3	199.3	219.5	251.1	256.8	237.1	215.7	207.3	205.6
60°	868.5	188.1	190.9	209.2	237.5	247.4	227.7	210.1	204.5	203.3
62.5°	673.9	175.2	184.5	201.7	227.0	240.8	222.5	209.4	207.3	205.9
65°	482.8	164.8	177.7	194.2	217.4	234.7	220.7	208.5	208.9	207.8
67.5°	328.0	155.7	169.5	185.7	208.0	229.3	218.1	205.2	211.0	209.6
70°	229.6	146.8	159.9	174.9	196.3	221.8	213.4	200.3	199.8	194.2
72.5°	179.1	135.1	146.8	159.9	181.3	211.3	204.0	189.2	181.5	175.6
73°	170.9	132.3	143.5	156.6	178.0	208.7	201.4	186.2	177.5	172.1
75°	141.4	120.1	130.4	142.1	163.9	196.5	188.8	172.3	161.3	158.0
77.5°	111.1	102.7	112.6	123.1	144.4	178.7	170.0	154.3	148.2	145.4
80°	82.3	85.1	93.8	103.2	125.2	159.7	151.9	136.2	163.4	156.6
82.5°	57.9	64.5	72.5	80.9	105.0	141.2	131.8	115.6	119.6	99.4
85°	34.2	42.2	49.7	57.0	75.7	117.0	108.8	92.2	75.5	72.0
87.5°	19.9	23.4	25.6	33.1	52.1	88.2	76.7	68.2	39.2	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)