

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: P300359

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300359
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-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 5048.1 lumens
Efficiency: N/A
Efficacy: 114.7 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

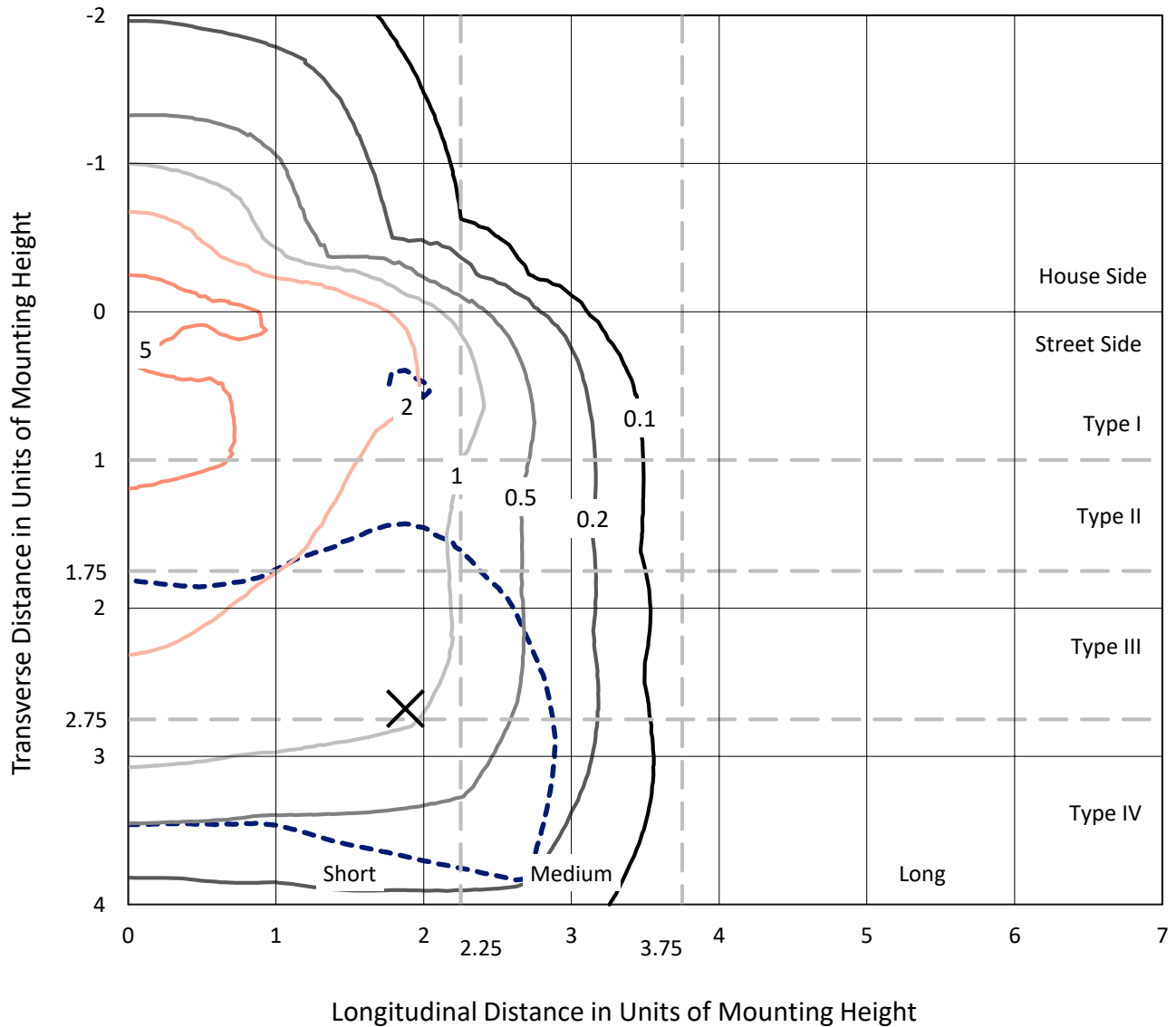
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

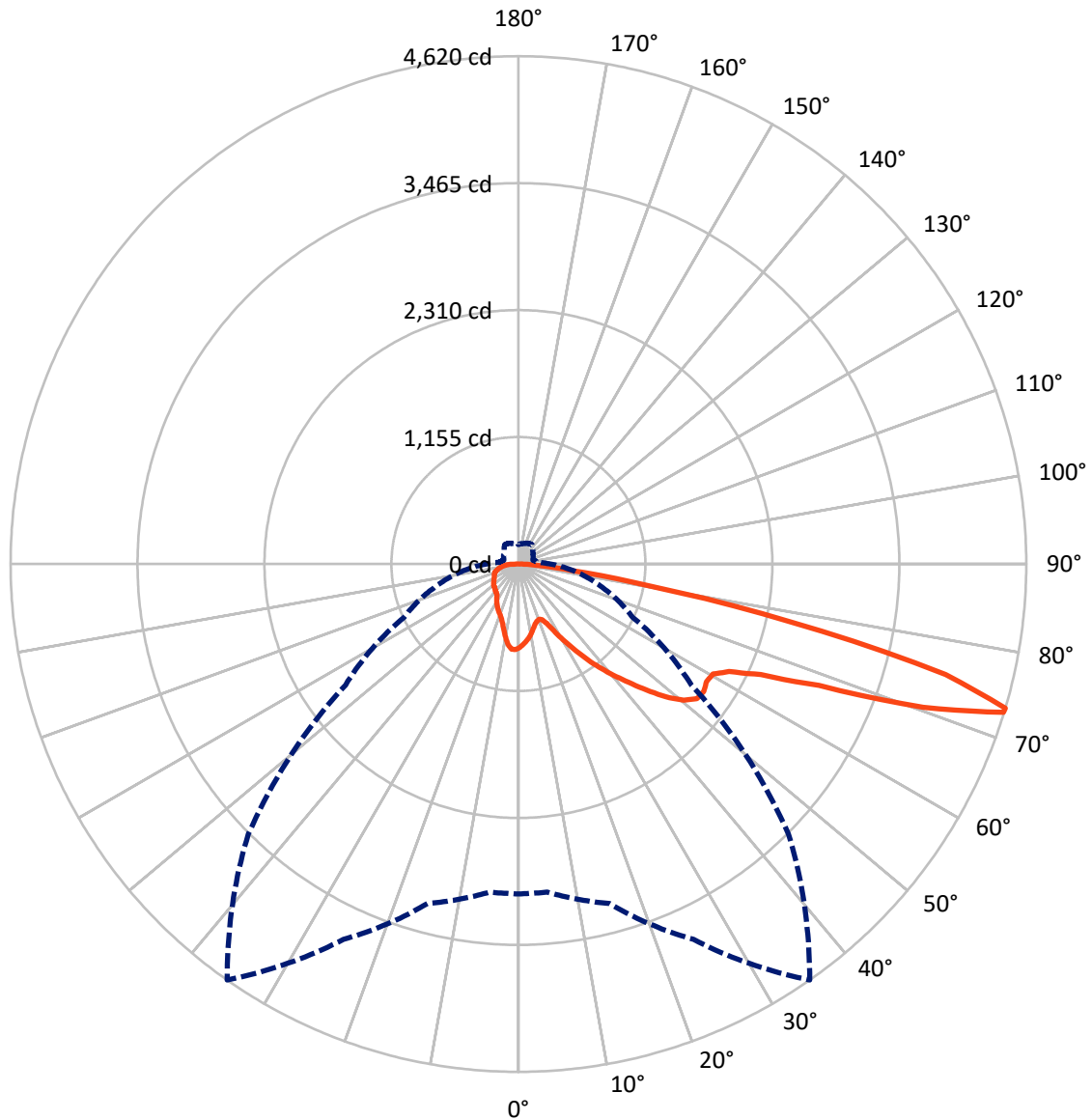
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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	962.8	0.0	962.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4085.3	0.0	4085.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	5048.1	0.0	5048.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.4
10°-20°	172.2	3.4
20°-30°	278.3	5.5
30°-40°	466.7	9.2
40°-50°	719.4	14.3
50°-60°	965.1	19.1
60°-70°	1285.7	25.5
70°-80°	980.6	19.4
80°-90°	111.1	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°	5048.1	100.0
0°-180°	5048.1	100.0



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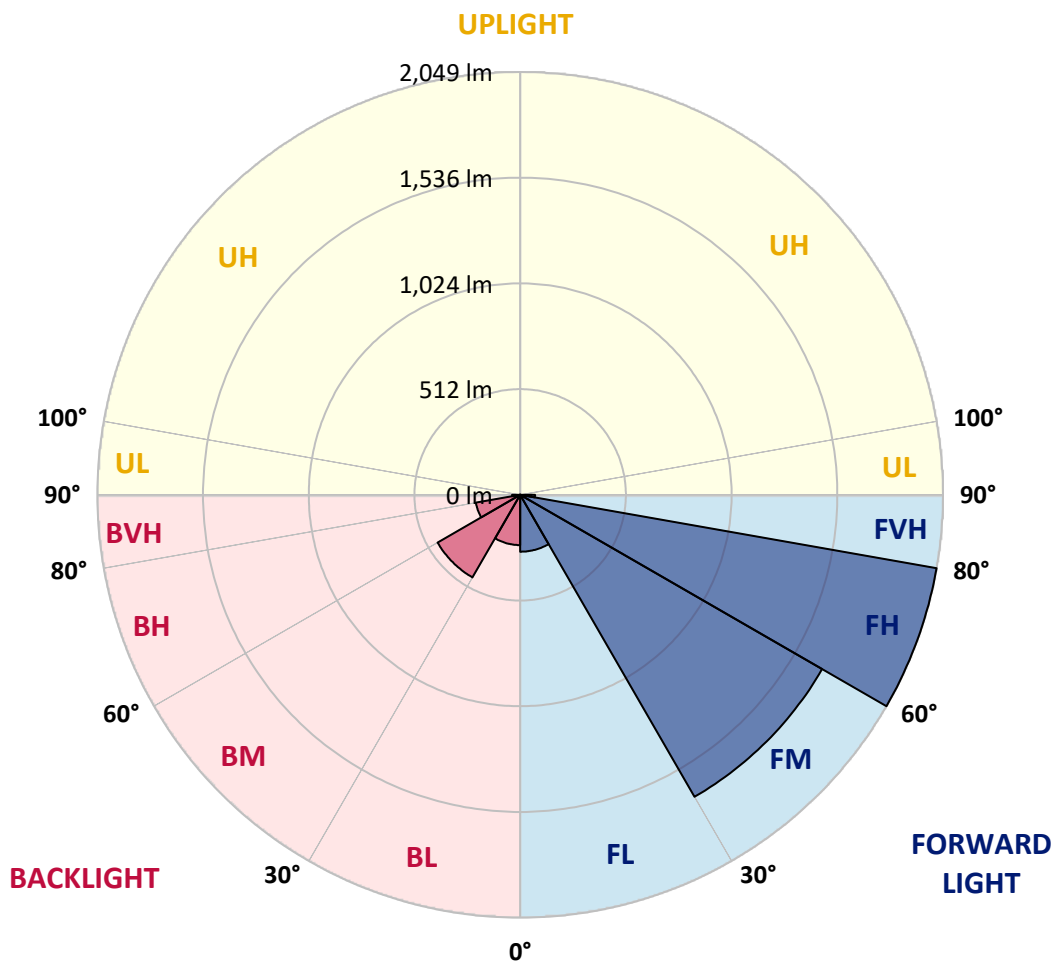
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.8	5.5			
FM	(30°-60°)	1689.1	33.5			
FH	(60°-80°)	2048.5	40.6			G2/5000
FVH	(80°-90°)	71.8	1.4			G1/100
BL	(0°-30°)	243.6	4.8	B1/500		
BM	(30°-60°)	462.1	9.2	B1/1000		
BH	(60°-80°)	217.8	4.3	B1/500		G1/500
BVH	(80°-90°)	39.3	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°	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9
2.5°	731.9	733.3	731.6	733.8	737.4	741.3	744.0	747.9	752.2	758.3	759.7
5°	697.4	699.6	699.6	703.5	710.5	716.8	722.6	729.0	738.2	748.6	752.7
7.5°	659.6	660.8	663.0	668.8	679.0	688.0	696.2	706.4	719.0	732.8	740.1
10°	614.0	615.7	619.1	627.4	641.2	653.6	665.4	679.5	695.5	712.7	721.9
12.5°	581.8	581.3	582.8	588.8	601.0	616.0	633.2	651.1	670.8	690.9	702.0
15°	570.9	568.2	562.7	561.2	567.7	582.8	602.7	624.7	648.2	672.5	686.3
17.5°	577.7	573.1	557.8	546.7	545.7	557.1	578.2	602.9	630.0	659.6	676.8
20°	620.3	609.4	571.9	545.9	537.0	542.5	561.0	587.1	619.1	658.4	680.5
22.5°	722.4	706.4	626.7	578.4	548.1	541.3	555.1	583.0	620.3	673.4	701.6
25°	871.0	848.2	720.7	659.4	596.8	560.7	563.9	592.5	637.6	708.3	742.3
27.5°	988.3	973.6	843.6	773.6	685.6	613.1	592.2	616.2	672.7	765.6	800.2
30°	1058.2	1049.2	975.0	903.0	798.8	696.5	646.5	660.8	727.7	844.8	873.4
32.5°	1139.1	1133.8	1097.4	1031.2	920.9	806.0	732.6	727.5	801.4	940.1	953.2
35°	1223.0	1221.3	1200.0	1152.5	1052.1	950.5	846.8	812.3	881.7	1039.0	1030.8
37.5°	1301.1	1298.1	1285.8	1258.2	1189.3	1105.7	963.1	899.4	968.2	1133.5	1096.9
40°	1444.8	1422.0	1379.6	1358.8	1328.0	1236.3	1055.5	980.6	1057.9	1223.7	1154.2
42.5°	1620.1	1583.0	1504.0	1475.4	1471.0	1339.4	1118.5	1059.4	1148.3	1313.2	1210.4
45°	1758.0	1723.1	1655.0	1618.9	1634.9	1432.7	1181.8	1143.5	1241.4	1407.0	1268.3
47.5°	1905.2	1850.4	1760.2	1771.1	1806.0	1520.9	1246.3	1233.9	1343.5	1512.0	1340.3
50°	1910.5	1868.6	1829.0	1894.3	1948.6	1602.1	1327.0	1328.7	1468.3	1644.1	1436.1
52.5°	1799.7	1790.7	1853.5	1956.1	2034.4	1666.4	1418.9	1426.6	1628.1	1795.8	1541.3
55°	1760.9	1750.7	1823.2	1934.5	2046.0	1719.5	1518.5	1532.6	1821.3	1955.8	1643.8
57.5°	1855.5	1832.9	1837.8	1924.3	2017.6	1777.7	1627.1	1655.5	2031.2	2095.7	1709.8
60°	2119.7	2071.5	1979.8	1977.6	2032.9	1864.9	1752.7	1787.3	2249.4	2162.6	1684.1
62.5°	2490.4	2442.1	2270.5	2158.7	2150.5	2008.9	1906.9	1916.1	2375.5	2071.9	1527.2
65°	2891.6	2848.4	2656.7	2498.8	2422.7	2247.5	2086.0	1973.5	2334.2	1822.5	1252.8
67.5°	3378.6	3332.3	3167.4	3021.7	2948.5	2632.4	2211.8	1918.5	2072.7	1411.8	900.6
70°	3719.2	3671.9	3606.9	3725.0	3904.1	3187.8	2228.1	1694.7	1548.1	938.4	542.0
72.5°	3274.8	3252.8	3371.3	3868.5	4614.7	3524.8	2014.0	1233.9	899.1	498.2	313.7
73°	3000.4	2995.6	3197.7	3767.9	4619.8	3472.9	1920.2	1146.9	771.1	440.7	286.8
75°	1354.9	1393.9	1837.0	2878.0	4013.7	2861.7	1351.5	657.9	435.6	304.5	216.5
77.5°	325.6	339.1	574.8	1366.8	2534.7	1705.4	612.3	325.3	278.5	215.0	158.1
80°	138.7	143.3	221.3	505.0	1193.4	686.8	282.2	217.9	192.7	150.1	110.8
82.5°	77.1	81.9	125.6	229.1	481.7	234.2	172.1	151.8	126.8	90.4	72.0
85°	43.6	46.3	73.5	128.0	204.1	94.1	103.0	100.8	71.5	46.5	35.4
87.5°	20.6	22.3	35.4	59.4	80.0	36.8	52.4	57.7	44.8	28.4	18.4
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°	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9	761.9
2.5°	761.4	765.8	770.9	773.6	776.0	778.9	781.8	781.8	782.3	782.5
5°	756.1	765.1	773.1	776.5	777.2	777.2	776.5	772.6	769.2	770.6
7.5°	745.0	758.0	764.8	763.6	754.4	743.7	734.8	723.9	718.3	717.3
10°	729.0	744.0	745.2	733.1	710.3	687.5	668.6	650.2	641.4	639.3
12.5°	711.3	725.1	717.3	692.3	655.7	622.5	598.5	579.9	571.6	569.4
15°	697.0	706.4	686.8	647.5	601.4	566.3	546.4	532.6	526.8	525.1
17.5°	689.4	691.4	655.5	602.4	553.4	524.1	511.7	505.2	503.0	501.8
20°	693.1	679.5	625.7	560.5	514.2	493.6	490.7	489.0	488.5	487.7
22.5°	711.3	675.9	598.3	520.7	479.7	470.8	473.2	473.0	472.5	472.0
25°	743.7	679.0	571.6	482.9	450.9	449.0	453.3	453.3	451.4	451.4
27.5°	786.6	685.6	541.8	447.0	424.7	425.0	428.4	427.4	425.2	423.7
30°	839.0	689.7	506.9	414.8	400.2	399.3	400.2	396.1	389.6	389.1
32.5°	892.6	684.6	466.4	386.2	374.3	372.1	371.4	365.6	358.1	355.9
35°	941.1	665.9	425.2	363.4	349.6	344.7	348.1	346.2	339.4	337.7
37.5°	976.5	631.3	388.1	343.3	331.9	330.7	332.8	333.6	325.6	323.9
40°	1000.2	584.2	356.4	326.3	328.5	323.9	316.6	311.5	309.1	308.4
42.5°	1019.4	535.3	329.7	318.3	329.2	315.9	300.1	291.9	296.2	298.2
45°	1041.4	487.5	307.4	308.4	325.6	306.7	288.7	280.7	282.4	282.9
47.5°	1071.7	429.3	283.4	292.4	313.4	300.4	281.7	270.3	262.3	258.7
50°	1113.7	360.5	258.4	274.4	301.6	295.8	270.8	258.7	243.9	240.5
52.5°	1142.8	296.2	237.8	259.4	290.9	286.5	262.1	246.3	230.8	227.9
55°	1127.0	246.1	219.9	242.7	276.8	275.1	254.8	233.7	221.6	219.1
57.5°	1048.2	214.3	206.1	226.9	259.6	265.4	245.1	223.0	214.3	212.6
60°	897.9	194.4	197.3	216.2	245.6	255.8	235.4	217.2	211.4	210.2
62.5°	696.7	181.1	190.8	208.5	234.7	249.0	230.1	216.5	214.3	212.8
65°	499.1	170.4	183.8	200.7	224.7	242.7	228.1	215.5	216.0	214.8
67.5°	339.1	161.0	175.3	192.0	215.0	237.1	225.4	212.1	218.2	216.7
70°	237.3	151.8	165.3	180.8	202.9	229.3	220.6	207.0	206.5	200.7
72.5°	185.2	139.6	151.8	165.3	187.4	218.4	210.9	195.6	187.6	181.6
73°	176.7	136.7	148.4	161.9	184.0	215.8	208.2	192.5	183.5	177.9
75°	146.2	124.1	134.8	146.9	169.5	203.1	195.1	178.2	166.8	163.4
77.5°	114.9	106.2	116.4	127.3	149.3	184.7	175.8	159.5	153.2	150.3
80°	85.1	88.0	97.0	106.7	129.5	165.1	157.1	140.8	169.0	161.9
82.5°	59.9	66.7	74.9	83.6	108.6	145.9	136.2	119.5	123.6	102.8
85°	35.4	43.6	51.4	58.9	78.3	121.0	112.5	95.3	78.1	74.4
87.5°	20.6	24.2	26.4	34.2	53.8	91.1	79.3	70.5	40.5	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)