

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: P270181

Luminaire Tested: **GWC-AF-01-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270181
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: GWC-AF-01-LED-E1-T4FT-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5556.2 lumens
Efficiency: N/A
Efficacy: 94.2 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

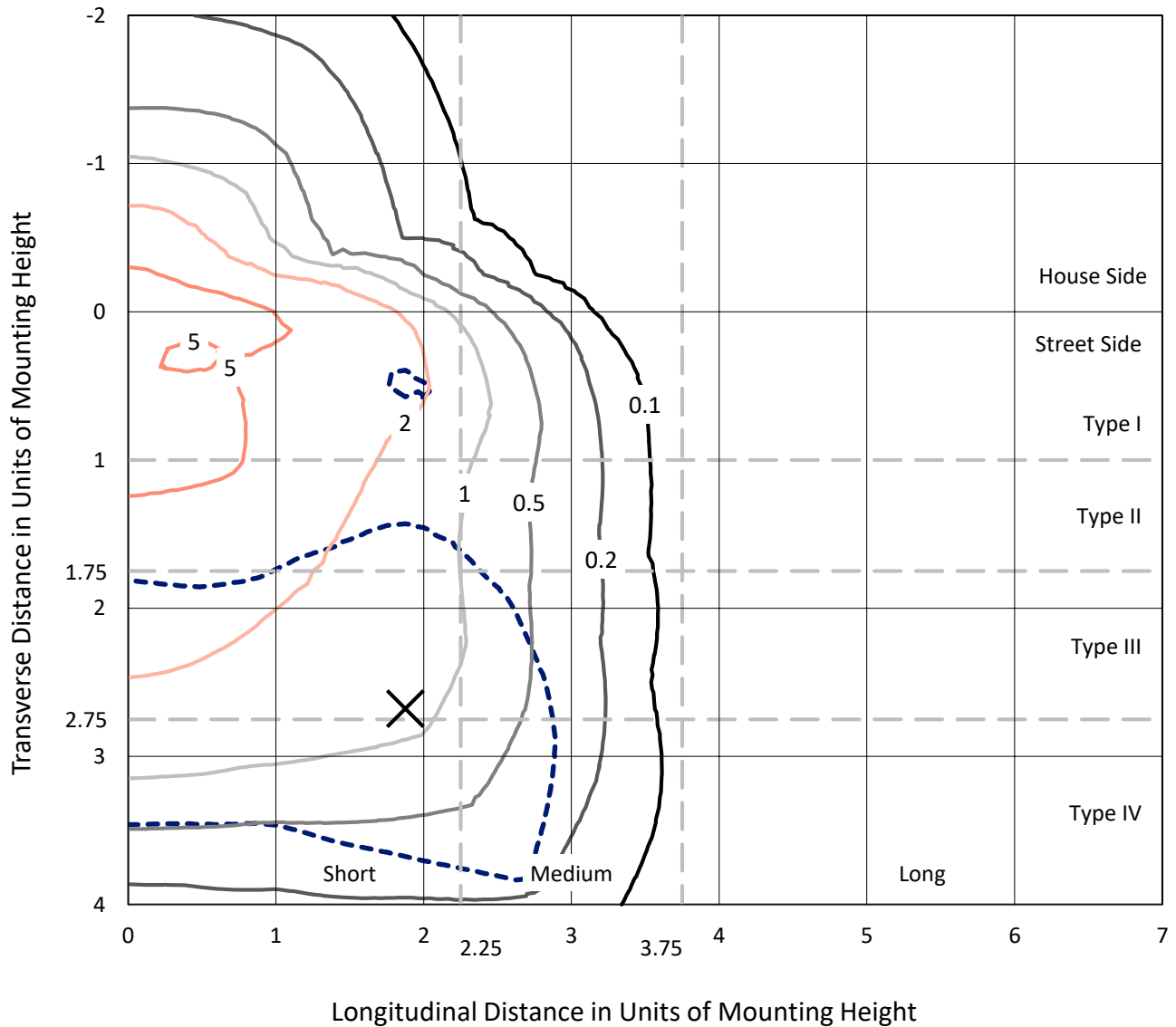
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

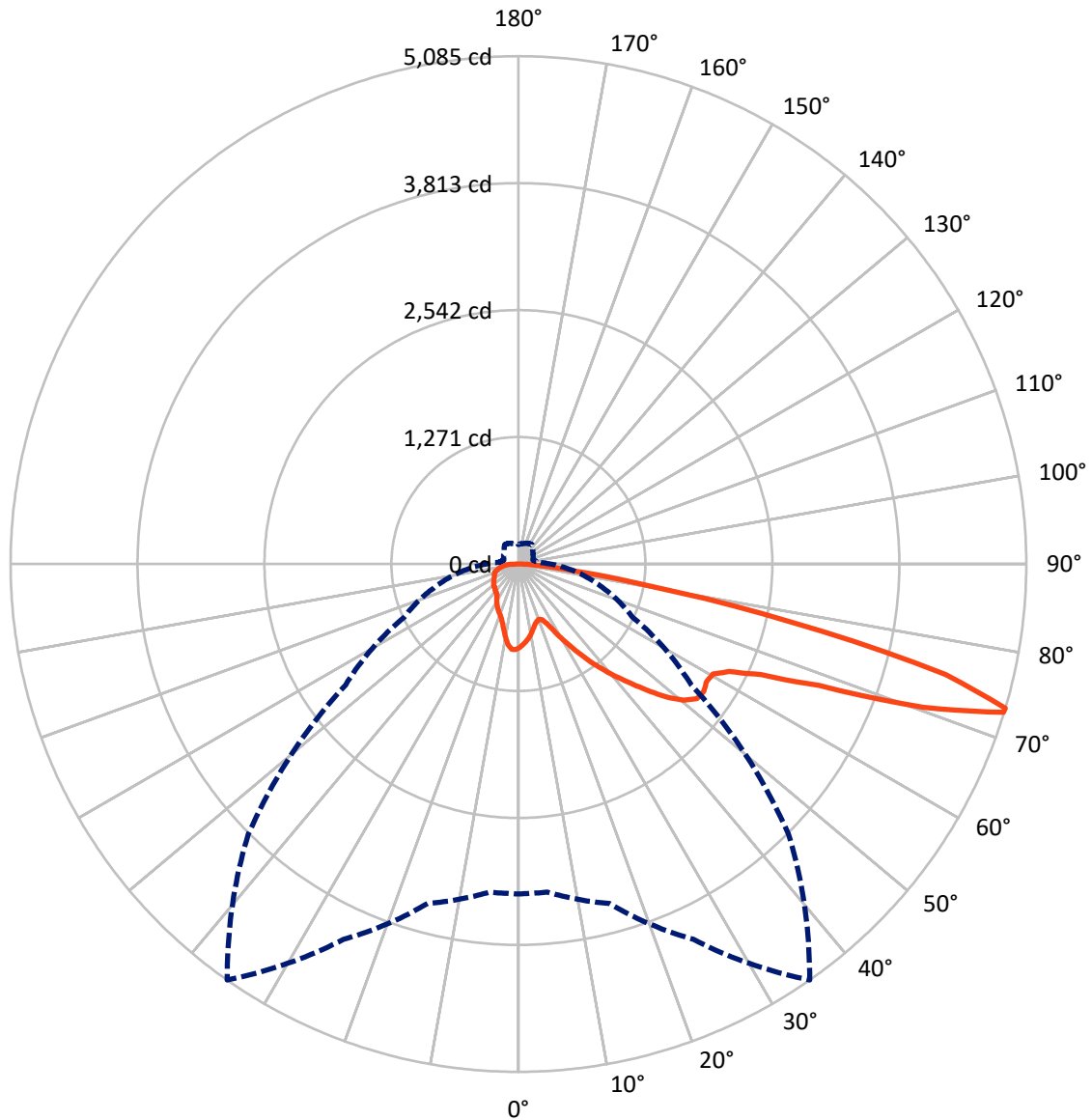
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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	1059.7	0.0	1059.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4496.5	0.0	4496.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	5556.2	0.0	5556.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.4
10°-20°	189.5	3.4
20°-30°	306.3	5.5
30°-40°	513.6	9.2
40°-50°	791.8	14.3
50°-60°	1062.3	19.1
60°-70°	1415.1	25.5
70°-80°	1079.3	19.4
80°-90°	122.3	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°	5556.2	100.0
0°-180°	5556.2	100.0



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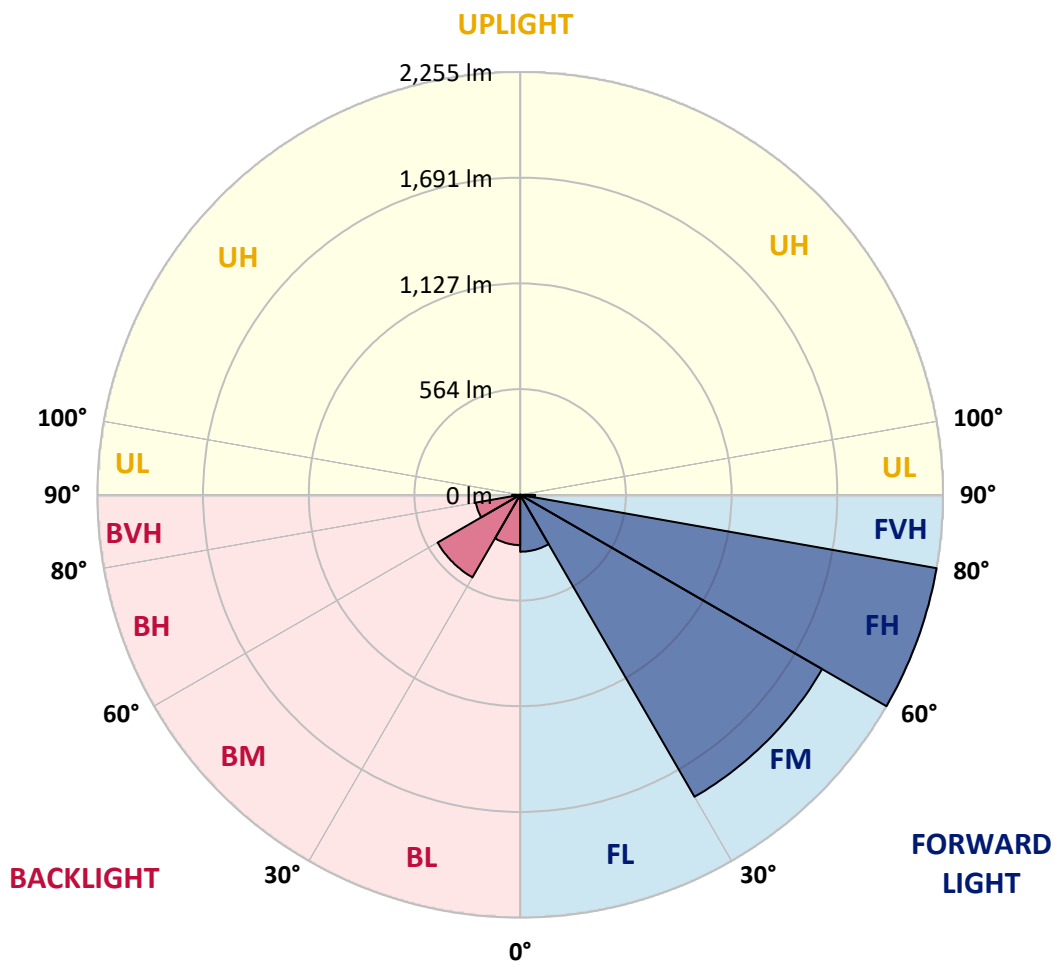
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.6	5.5			
FM	(30°-60°)	1859.1	33.5			
FH	(60°-80°)	2254.7	40.6			G2/5000
FVH	(80°-90°)	79.1	1.4			G1/100
BL	(0°-30°)	268.2	4.8	B1/500		
BM	(30°-60°)	508.5	9.2	B1/1000		
BH	(60°-80°)	239.8	4.3	B1/500		G1/500
BVH	(80°-90°)	43.3	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°	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6
2.5°	805.5	807.0	805.2	807.7	811.7	815.9	818.9	823.1	827.9	834.5	836.2
5°	767.6	770.0	770.0	774.2	782.1	789.0	795.4	802.2	812.4	823.9	828.4
7.5°	726.0	727.4	729.8	736.2	747.3	757.2	766.3	777.6	791.3	806.6	814.7
10°	675.9	677.7	681.5	690.4	705.7	719.4	732.4	747.8	765.4	784.4	794.6
12.5°	640.3	639.9	641.4	648.0	661.4	678.0	696.9	716.7	738.2	760.4	772.7
15°	628.4	625.4	619.3	617.7	625.0	641.4	663.3	687.7	713.4	740.2	755.4
17.5°	635.8	630.8	613.9	601.7	600.5	613.2	636.4	663.6	693.4	726.0	745.0
20°	682.8	670.8	629.4	600.8	590.9	597.2	617.5	646.2	681.5	724.7	748.9
22.5°	795.1	777.6	689.7	636.5	603.3	595.8	610.9	641.7	682.8	741.2	772.2
25°	958.8	933.6	793.3	725.7	656.9	617.1	620.5	652.1	701.8	779.5	817.0
27.5°	1087.8	1071.5	928.5	851.5	754.5	674.7	651.8	678.2	740.5	842.6	880.8
30°	1164.7	1154.9	1073.1	993.9	879.1	766.6	711.5	727.4	801.0	929.8	961.4
32.5°	1253.8	1247.8	1208.0	1135.0	1013.6	887.2	806.3	800.7	882.0	1034.7	1049.1
35°	1346.1	1344.3	1320.8	1268.4	1157.9	1046.2	932.0	894.2	970.3	1143.5	1134.5
37.5°	1432.0	1428.8	1415.2	1384.7	1309.0	1216.9	1060.1	989.9	1065.7	1247.7	1207.3
40°	1590.2	1565.1	1518.5	1495.5	1461.6	1360.8	1161.7	1079.3	1164.4	1346.9	1270.4
42.5°	1783.1	1742.4	1655.2	1623.9	1619.0	1474.2	1231.0	1166.0	1263.8	1445.4	1332.1
45°	1934.9	1896.5	1821.6	1781.8	1799.3	1576.9	1300.7	1258.5	1366.3	1548.6	1396.0
47.5°	2097.0	2036.5	1937.4	1949.3	1987.8	1674.0	1371.7	1358.1	1478.7	1664.1	1475.2
50°	2102.8	2056.6	2013.1	2084.8	2144.7	1763.4	1460.6	1462.4	1616.1	1809.5	1580.6
52.5°	1980.9	1970.9	2040.1	2152.9	2239.1	1834.1	1561.7	1570.1	1791.8	1976.6	1696.4
55°	1938.2	1927.0	2006.8	2129.3	2252.0	1892.5	1671.3	1686.7	2004.6	2152.7	1809.2
57.5°	2042.1	2017.4	2022.8	2117.9	2220.7	1956.6	1790.9	1822.1	2235.6	2306.6	1881.8
60°	2333.0	2279.9	2179.1	2176.7	2237.5	2052.5	1929.1	1967.2	2475.8	2380.2	1853.6
62.5°	2741.0	2687.9	2498.9	2375.9	2366.9	2211.1	2098.8	2109.0	2614.4	2280.4	1680.9
65°	3182.5	3135.1	2924.1	2750.3	2666.6	2473.7	2296.0	2172.1	2569.2	2005.9	1378.9
67.5°	3718.7	3667.6	3486.2	3325.9	3245.2	2897.4	2434.3	2111.6	2281.2	1553.9	991.2
70°	4093.4	4041.5	3969.9	4099.9	4297.0	3508.6	2452.4	1865.3	1703.8	1032.8	596.7
72.5°	3604.4	3580.1	3710.5	4257.8	5079.0	3879.5	2216.7	1358.1	989.7	548.2	345.3
73°	3302.3	3297.0	3519.6	4147.0	5084.6	3822.4	2113.4	1262.3	848.8	485.1	315.7
75°	1491.2	1534.1	2021.9	3167.7	4417.7	3149.7	1487.6	724.2	479.4	335.1	238.3
77.5°	358.3	373.2	632.6	1504.3	2789.9	1877.1	674.0	358.1	306.6	236.7	173.9
80°	152.6	157.7	243.6	555.8	1313.5	755.8	310.5	239.8	212.1	165.2	121.9
82.5°	84.8	90.2	138.2	252.2	530.2	257.8	189.5	167.1	139.5	99.5	79.2
85°	48.0	50.9	80.8	140.9	224.7	103.6	113.4	111.0	78.7	51.3	38.9
87.5°	22.6	24.6	38.9	65.3	88.0	40.6	57.6	63.5	49.3	31.3	20.3
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°	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6	838.6
2.5°	838.1	842.9	848.4	851.5	854.1	857.3	860.4	860.4	861.0	861.2
5°	832.2	842.2	850.9	854.6	855.4	855.4	854.6	850.3	846.7	848.2
7.5°	820.0	834.3	841.8	840.5	830.4	818.5	808.7	796.6	790.6	789.5
10°	802.2	818.9	820.2	806.9	781.7	756.7	735.9	715.6	706.0	703.6
12.5°	782.9	798.1	789.5	762.0	721.8	685.1	658.7	638.2	629.2	626.7
15°	767.2	777.6	755.8	712.6	662.1	623.2	601.3	586.2	579.8	577.9
17.5°	758.8	761.0	721.5	662.9	609.1	576.8	563.2	556.1	553.6	552.3
20°	762.8	747.8	688.6	616.9	565.9	543.3	540.1	538.2	537.6	536.8
22.5°	782.9	743.8	658.5	573.1	528.1	518.1	520.7	520.6	519.9	519.5
25°	818.5	747.3	629.2	531.4	496.3	494.2	499.0	499.0	496.9	496.9
27.5°	865.7	754.5	596.4	492.0	467.5	467.7	471.5	470.4	467.9	466.4
30°	923.5	759.1	557.8	456.5	440.4	439.5	440.4	435.9	428.9	428.2
32.5°	982.3	753.5	513.3	425.1	412.0	409.5	408.8	402.4	394.0	391.8
35°	1035.7	732.9	467.9	399.9	384.7	379.4	383.1	381.1	373.5	371.7
37.5°	1074.7	694.7	427.1	377.7	365.3	364.0	366.2	367.1	358.3	356.4
40°	1100.9	643.0	392.2	359.1	361.6	356.4	348.5	342.9	340.2	339.4
42.5°	1122.0	589.1	362.8	350.2	362.3	347.6	330.2	321.2	326.1	328.2
45°	1146.2	536.6	338.3	339.4	358.3	337.6	317.8	308.9	310.9	311.4
47.5°	1179.6	472.5	311.9	321.8	344.9	330.5	310.1	297.5	288.6	284.8
50°	1225.7	396.7	284.5	302.0	332.0	325.5	298.1	284.8	268.5	264.7
52.5°	1257.7	326.1	261.8	285.5	320.2	315.3	288.4	271.1	254.0	250.7
55°	1240.4	270.7	242.1	267.1	304.7	302.8	280.5	257.3	243.9	241.3
57.5°	1153.8	235.9	226.8	249.8	285.8	292.2	269.8	245.4	235.9	234.0
60°	988.2	213.9	217.2	238.1	270.3	281.4	259.2	239.0	232.8	231.4
62.5°	766.9	199.3	209.9	229.4	258.3	274.1	253.2	238.3	235.9	234.3
65°	549.4	187.6	202.3	221.0	247.4	267.1	251.0	237.2	237.7	236.4
67.5°	373.2	177.1	192.9	211.3	236.7	261.0	248.1	233.5	240.1	238.5
70°	261.1	167.1	181.9	199.1	223.3	252.5	242.8	227.9	227.4	221.0
72.5°	203.8	153.7	167.1	181.9	206.3	240.3	232.1	215.4	206.5	199.9
73°	194.6	150.5	163.3	178.3	202.5	237.4	229.2	211.8	201.9	195.8
75°	160.8	136.6	148.3	161.7	186.5	223.6	214.8	196.1	183.6	179.8
77.5°	126.5	116.9	128.1	140.0	164.4	203.2	193.4	175.6	168.6	165.4
80°	93.7	96.8	106.7	117.4	142.6	181.6	173.0	155.0	185.9	178.3
82.5°	65.8	73.4	82.5	92.0	119.6	160.6	149.9	131.5	136.1	113.1
85°	38.9	48.0	56.6	64.9	86.1	133.2	123.7	104.8	85.9	81.9
87.5°	22.6	26.7	29.0	37.5	59.3	100.3	87.2	77.7	44.6	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)