

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: P526138

Luminaire Tested: **GALN-SA1A-740-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-740-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3945 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

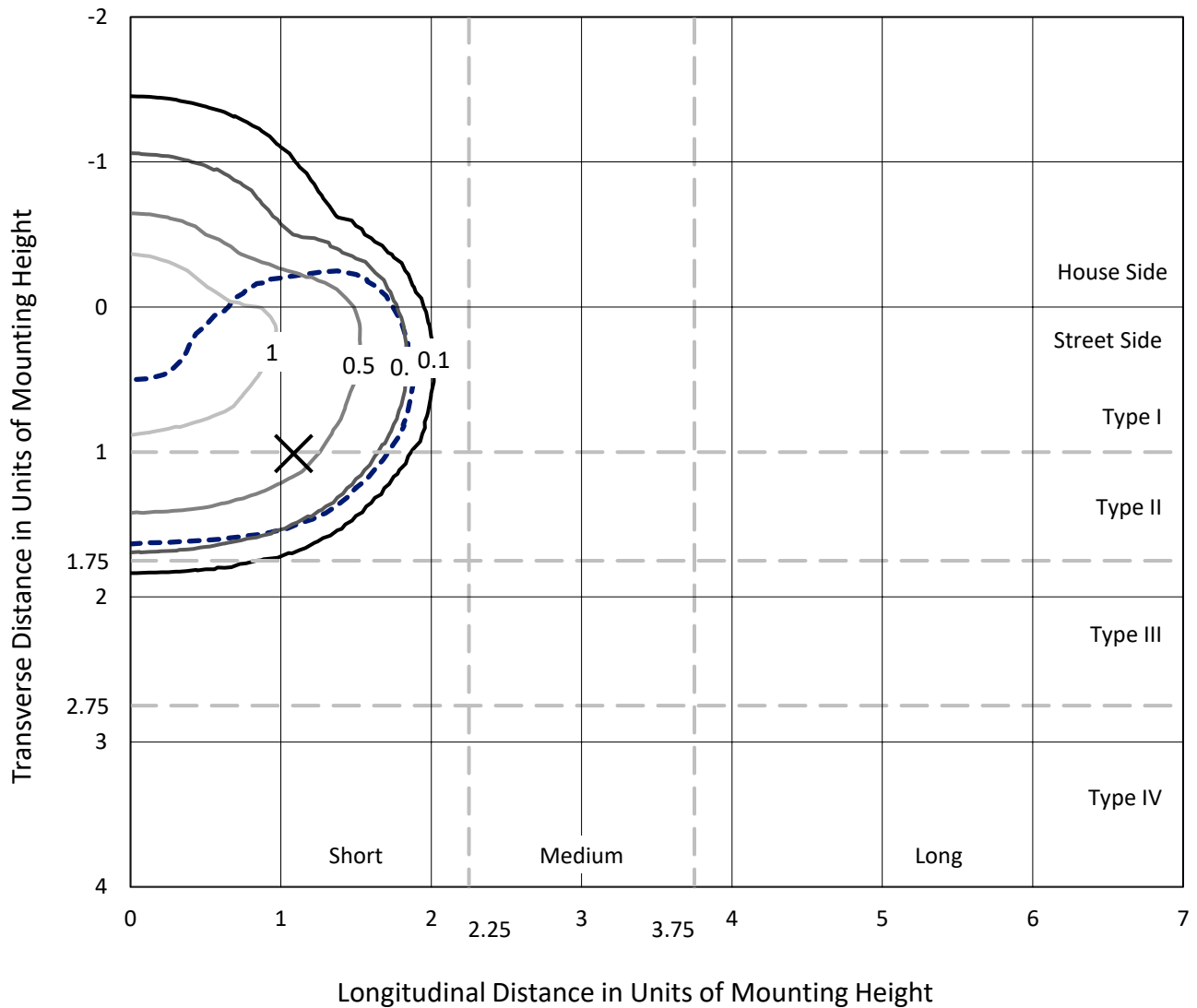
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

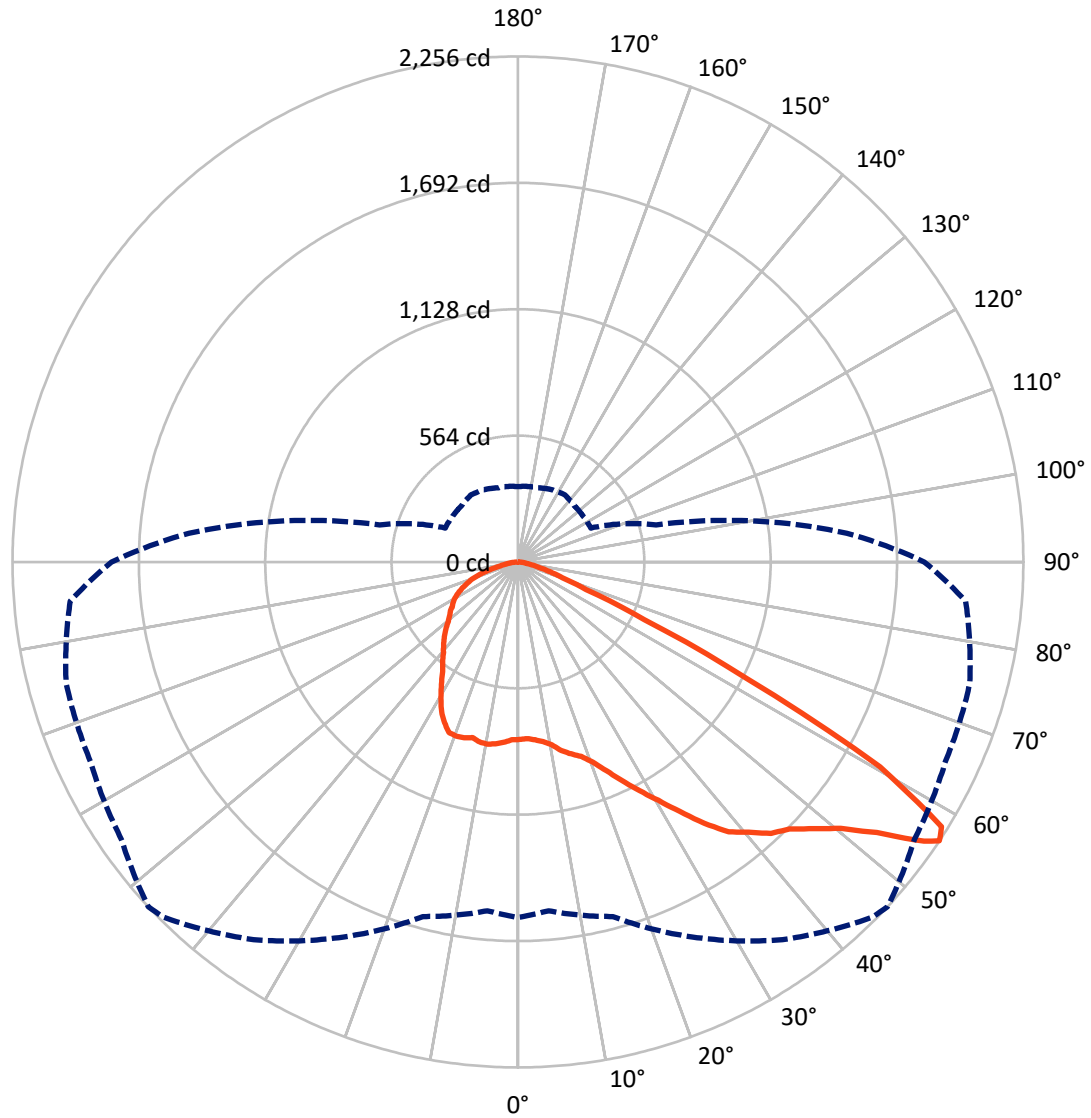
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1250.1	0.0	1250.1
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	2694.9	0.0	2694.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	3945.0	0.0	3945.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	2.0
10°-20°	243.6	6.2
20°-30°	430.6	10.9
30°-40°	646.7	16.4
40°-50°	887.5	22.5
50°-60°	1057.4	26.8
60°-70°	452.5	11.5
70°-80°	128.1	3.2
80°-90°	21.5	0.5
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°	3945.0	100.0
0°-180°	3945.0	100.0

**Coefficient of Utilization**



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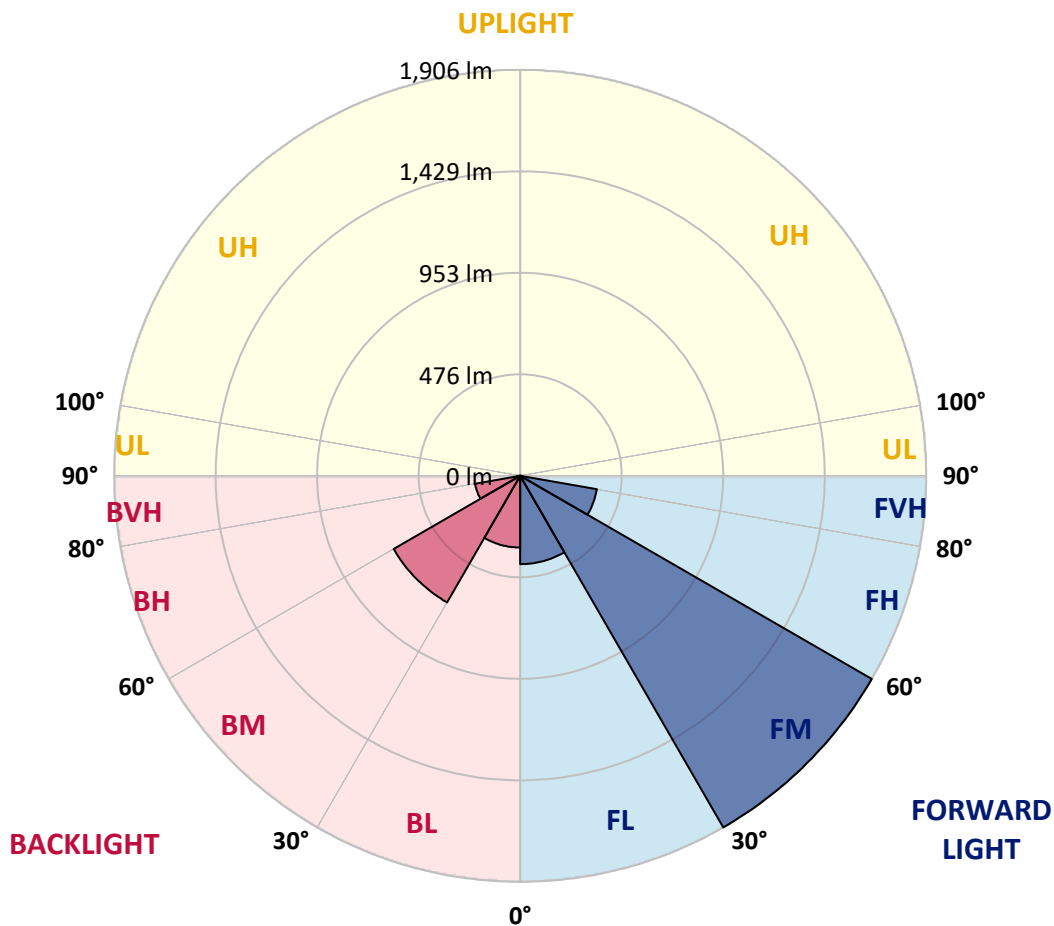
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.8	10.5			
FM (30°-60°)	1905.5	48.3			
FH (60°-80°)	365.4	9.3			G0/660
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	336.6	8.5	B1/500		
BM (30°-60°)	686.0	17.4	B1/1000		
BH (60°-80°)	215.1	5.5	B1/500		G1/500
BVH (80°-90°)	12.4	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4
2.5°	789.4	787.9	786.9	794.9	791.9	792.4	789.4	792.4	794.4	789.9	796.5
5°	787.9	792.4	788.4	790.9	797.5	795.4	797.5	803.5	802.0	800.5	798.5
7.5°	802.0	802.5	805.5	806.5	808.5	806.5	809.5	815.1	813.6	805.0	806.0
10°	822.1	823.1	823.6	829.2	832.7	833.2	829.7	824.6	824.1	835.7	827.6
12.5°	845.3	842.7	848.8	850.8	854.8	859.3	863.9	853.3	859.9	860.4	850.8
15°	879.0	881.5	874.4	874.4	876.0	876.5	889.0	884.0	883.0	877.5	881.5
17.5°	929.3	912.2	911.7	904.6	903.6	907.6	912.2	916.2	929.8	918.7	897.1
20°	966.0	970.0	955.4	946.9	948.4	957.5	952.9	971.0	980.6	962.5	941.4
22.5°	1030.9	1017.3	1020.9	1001.7	1003.2	1012.8	1012.3	1030.9	1036.4	1007.8	977.1
25°	1074.7	1071.2	1074.2	1059.1	1061.1	1068.6	1080.7	1111.4	1102.4	1070.7	999.7
27.5°	1138.6	1131.5	1129.0	1123.5	1121.5	1141.6	1155.7	1188.4	1181.9	1135.6	1040.0
30°	1204.0	1199.5	1202.0	1179.3	1187.4	1230.2	1234.2	1279.0	1275.9	1194.4	1084.7
32.5°	1249.3	1251.8	1256.3	1243.7	1279.5	1313.7	1327.3	1378.1	1380.6	1295.6	1171.3
35°	1322.2	1313.7	1316.2	1330.8	1347.4	1409.8	1431.9	1465.6	1486.8	1401.7	1254.3
37.5°	1368.0	1377.1	1366.5	1389.6	1432.9	1507.9	1528.0	1562.7	1584.9	1506.4	1367.5
40°	1439.5	1424.9	1432.4	1449.0	1493.3	1590.9	1585.4	1621.1	1628.1	1595.4	1473.2
42.5°	1516.4	1509.4	1498.8	1536.6	1573.8	1644.7	1655.8	1639.2	1674.9	1682.5	1624.1
45°	1608.5	1617.1	1618.6	1619.6	1652.3	1714.2	1699.1	1684.5	1725.7	1780.6	1717.7
47.5°	1694.0	1666.9	1686.5	1713.7	1760.0	1760.5	1778.1	1743.3	1787.1	1835.9	1802.2
50°	1722.7	1709.6	1735.8	1787.1	1858.6	1866.1	1868.1	1818.8	1841.5	1880.2	1831.4
52.5°	1711.7	1707.1	1774.0	1853.5	1958.2	1996.4	2006.5	1945.6	1958.2	1940.6	1895.8
55°	1658.8	1672.4	1739.8	1901.8	2062.3	2180.6	2199.7	2122.7	2042.7	2056.3	2007.0
56°	1586.4	1562.7	1638.2	1847.0	2057.8	2240.4	2256.0	2159.9	2105.6	2088.0	2006.0
57.5°	1345.9	1315.2	1414.3	1661.8	1943.6	2217.8	2229.4	2175.5	2095.0	2059.3	1859.6
60°	787.9	803.0	928.8	1146.1	1499.3	1818.3	1857.1	1896.3	1842.5	1682.5	1384.1
62.5°	380.4	370.8	460.9	657.1	913.7	1160.7	1149.2	1259.3	1319.7	1195.4	873.9
65°	199.2	198.2	251.6	358.7	502.1	609.8	620.4	679.7	762.7	615.8	443.8
67.5°	146.4	150.4	177.1	252.1	323.0	329.6	328.0	357.7	365.8	309.4	272.7
70°	114.7	116.7	136.3	191.7	240.5	215.3	210.8	214.3	238.0	248.0	236.0
72.5°	83.0	85.0	101.6	129.3	150.4	146.9	149.9	169.6	198.7	209.3	196.7
75°	55.3	56.9	65.9	79.0	89.1	96.1	101.6	124.3	151.4	157.5	151.4
77.5°	38.2	39.7	45.8	55.8	56.9	61.4	63.4	74.0	90.6	98.1	94.1
80°	21.6	21.6	24.7	28.7	35.2	41.3	42.3	50.8	58.4	63.4	64.4
82.5°	10.1	10.6	13.1	17.6	23.1	28.7	29.7	35.2	40.8	45.8	47.3
85°	5.0	5.5	7.5	10.6	14.1	17.1	16.6	17.1	18.1	17.1	17.6
87.5°	1.5	1.5	2.0	2.5	2.0	2.5	2.5	3.0	3.5	4.0	4.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4	792.4
2.5°	797.0	798.5	788.4	798.0	794.4	793.9	801.0	800.0	802.5	801.5	795.4
5°	797.5	793.9	804.5	794.9	799.5	809.0	802.5	817.6	810.0	815.1	804.0
7.5°	813.1	814.1	812.1	816.1	814.1	818.6	815.1	818.6	812.6	813.1	823.1
10°	826.6	823.6	827.1	822.1	825.6	824.1	816.1	813.6	815.6	813.1	819.6
12.5°	851.8	846.3	843.7	837.7	833.7	818.6	806.0	799.0	808.5	810.0	807.0
15°	877.5	878.0	866.4	852.8	827.6	805.0	808.0	810.5	810.5	814.6	807.0
17.5°	893.6	893.6	883.0	855.8	830.2	817.1	814.1	806.0	799.0	798.0	797.5
20°	921.7	913.2	889.0	855.3	829.2	823.1	800.5	781.4	766.8	761.7	761.2
22.5°	953.9	932.3	898.6	856.3	827.6	819.1	776.8	748.2	722.0	710.9	712.4
25°	983.6	948.9	904.1	851.8	822.1	780.9	733.6	693.8	666.6	657.6	653.1
27.5°	1004.2	966.5	904.1	855.8	801.5	738.1	689.8	639.0	615.3	609.3	610.3
30°	1031.9	988.7	919.7	847.3	760.2	682.7	624.9	591.7	577.6	572.6	576.1
32.5°	1096.8	1046.5	941.4	826.6	711.4	627.4	580.6	562.0	541.4	531.3	527.8
35°	1167.3	1101.4	962.5	791.9	656.6	577.1	547.9	530.8	506.1	495.1	497.1
37.5°	1266.9	1171.8	964.0	734.6	597.2	548.9	522.2	495.6	475.5	458.4	453.3
40°	1401.2	1267.9	960.5	674.2	549.4	515.7	496.1	462.9	440.2	428.2	430.7
42.5°	1519.5	1380.6	945.9	605.8	506.1	493.1	470.9	438.2	416.1	403.5	402.5
45°	1619.1	1463.6	918.2	547.4	469.9	467.9	442.3	417.1	399.5	387.9	392.9
47.5°	1711.1	1530.5	876.5	489.0	436.7	440.7	416.1	400.5	389.4	378.9	378.4
50°	1744.4	1529.5	839.7	440.7	410.1	408.0	407.0	390.4	378.9	369.8	373.8
52.5°	1799.7	1546.6	800.0	407.5	385.9	386.4	389.9	377.9	364.8	359.2	364.3
55°	1879.2	1549.1	712.4	368.8	365.8	369.3	369.3	361.2	350.2	345.7	343.1
56°	1814.3	1474.2	639.0	358.7	355.7	355.7	365.3	356.2	342.6	339.1	336.1
57.5°	1673.4	1291.5	534.8	346.7	342.1	349.2	354.2	344.6	332.1	327.0	330.1
60°	1154.2	873.9	402.0	320.5	320.5	332.1	336.1	322.0	316.5	316.0	311.9
62.5°	673.7	509.2	314.5	296.8	297.9	307.4	310.4	302.4	295.3	303.9	307.9
65°	357.2	303.9	269.7	271.7	272.2	279.7	292.8	292.3	291.8	294.3	294.8
67.5°	258.6	252.6	245.0	243.0	244.0	249.6	262.6	272.7	272.2	266.2	261.6
70°	230.4	221.9	217.4	217.9	213.8	220.4	230.9	237.5	225.9	218.9	215.8
72.5°	191.7	189.2	186.2	186.7	178.6	177.1	165.0	165.0	162.0	160.0	163.5
75°	146.4	145.4	146.9	144.4	135.8	126.8	119.7	113.2	103.1	99.1	97.1
77.5°	92.6	95.6	99.1	93.6	90.1	83.5	76.5	69.9	61.9	57.4	57.4
80°	62.9	65.4	67.9	66.9	62.9	56.9	51.3	44.3	38.7	35.2	34.7
82.5°	47.8	49.8	53.3	49.3	45.3	40.3	35.7	30.7	25.7	21.6	21.6
85°	17.1	19.6	21.6	23.6	25.2	25.7	22.1	18.1	14.6	11.6	11.1
87.5°	4.5	5.0	5.5	5.0	5.0	5.0	5.5	5.0	4.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)