

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: P526294

Luminaire Tested: **GALN-SA1B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526294  
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-SA1B-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA 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: 4105 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

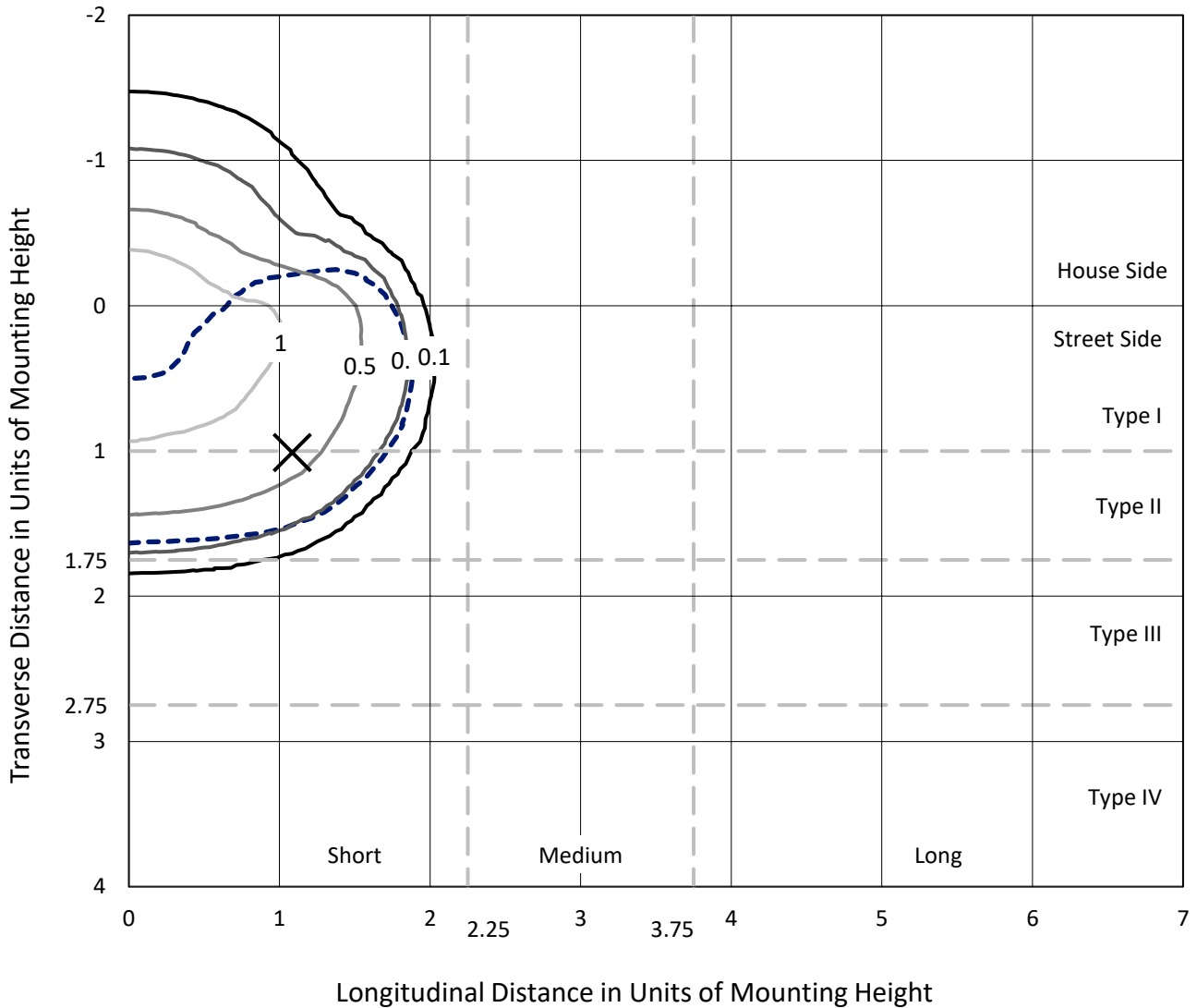
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

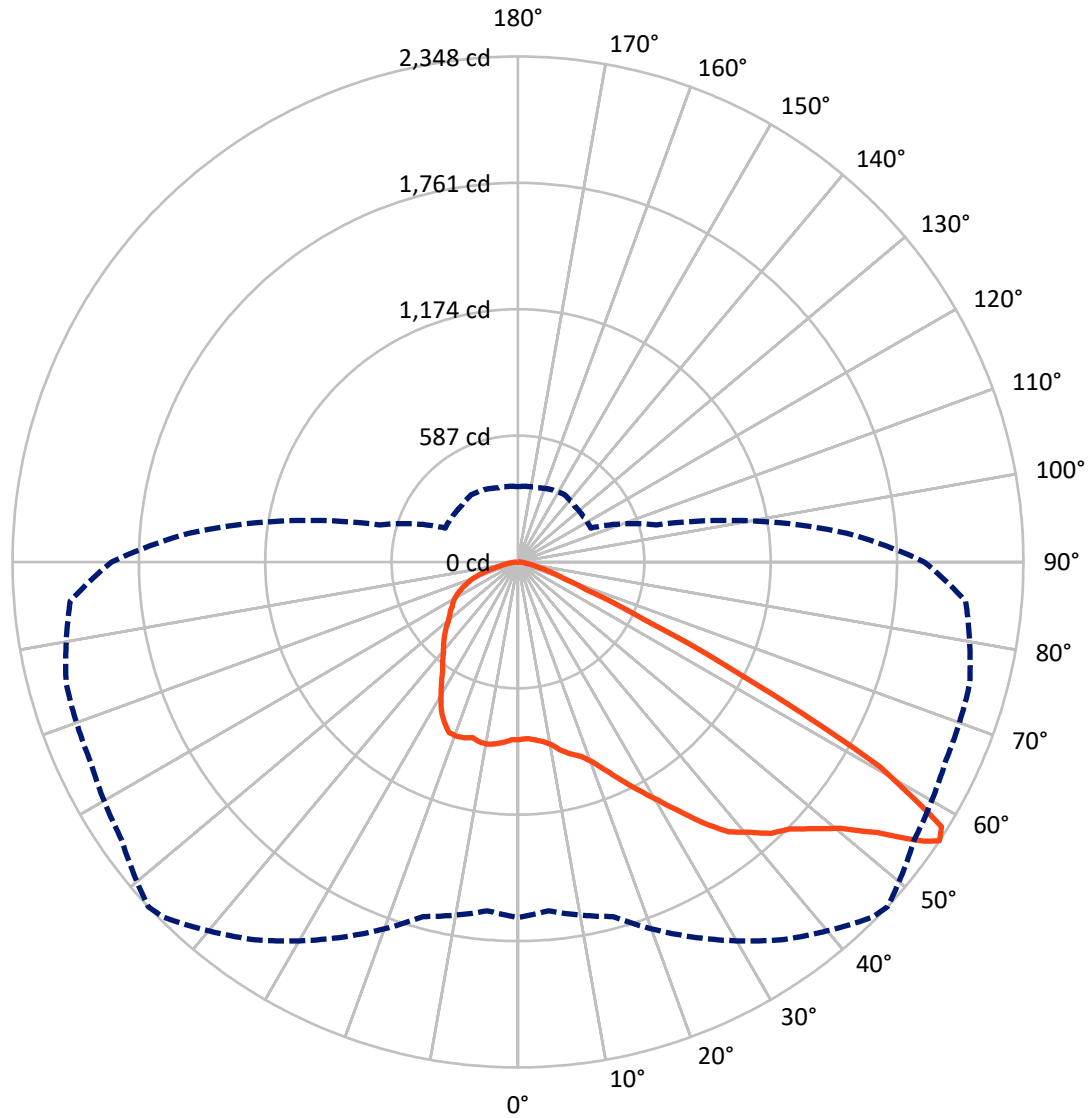
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	1300.8	0.0	1300.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	2804.2	0.0	2804.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	4105.0	0.0	4105.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	2.0
10°-20°	253.4	6.2
20°-30°	448.0	10.9
30°-40°	672.9	16.4
40°-50°	923.5	22.5
50°-60°	1100.2	26.8
60°-70°	470.8	11.5
70°-80°	133.3	3.2
80°-90°	22.4	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°	4105.0	100.0
0°-180°	4105.0	100.0

**Coefficient of Utilization**



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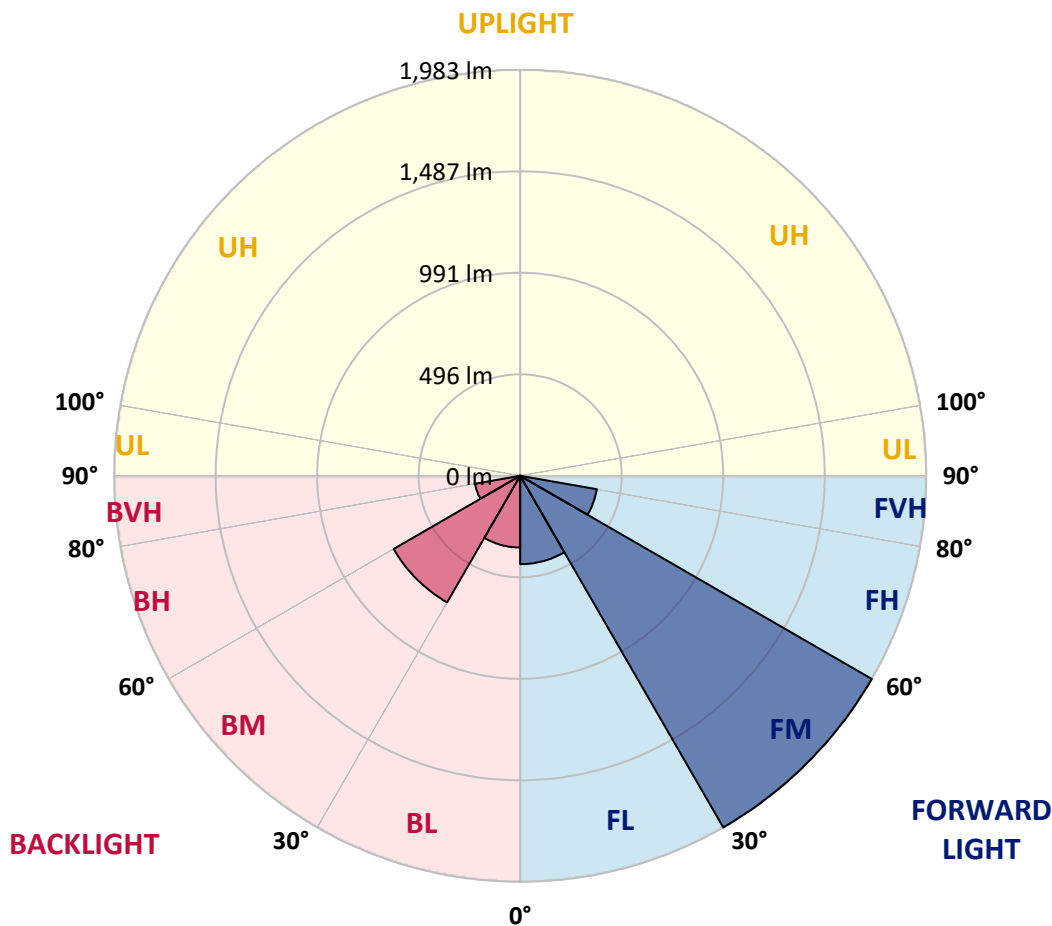
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.6	10.5			
FM (30°-60°)	1982.8	48.3			
FH (60°-80°)	380.3	9.3			G0/660
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	350.2	8.5	B1/500		
BM (30°-60°)	713.9	17.4	B1/1000		
BH (60°-80°)	223.8	5.5	B1/500		G1/500
BVH (80°-90°)	12.9	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°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6
2.5°	821.4	819.9	818.8	827.2	824.0	824.6	821.4	824.6	826.7	822.0	828.8
5°	819.9	824.6	820.4	823.0	829.8	827.7	829.8	836.1	834.5	832.9	830.9
7.5°	834.5	835.0	838.2	839.2	841.3	839.2	842.4	848.1	846.6	837.7	838.7
10°	855.5	856.5	857.0	862.8	866.5	867.0	863.3	858.1	857.6	869.6	861.2
12.5°	879.5	876.9	883.2	885.3	889.5	894.2	898.9	887.9	894.7	895.2	885.3
15°	914.6	917.2	909.9	909.9	911.5	912.0	925.1	919.9	918.8	913.0	917.2
17.5°	967.0	949.2	948.6	941.3	940.3	944.5	949.2	953.4	967.5	956.0	933.5
20°	1005.2	1009.4	994.2	985.3	986.9	996.3	991.6	1010.4	1020.4	1001.5	979.5
22.5°	1072.7	1058.6	1062.3	1042.4	1043.9	1053.9	1053.4	1072.7	1078.5	1048.6	1016.7
25°	1118.3	1114.6	1117.8	1102.0	1104.1	1112.0	1124.6	1156.5	1147.1	1114.1	1040.3
27.5°	1184.8	1177.4	1174.8	1169.1	1167.0	1187.9	1202.6	1236.6	1229.8	1181.6	1082.1
30°	1252.8	1248.1	1250.7	1227.2	1235.5	1280.0	1284.2	1330.8	1327.7	1242.9	1128.7
32.5°	1299.9	1302.6	1307.3	1294.2	1331.4	1367.0	1381.1	1434.0	1436.6	1348.1	1218.8
35°	1375.9	1367.0	1369.6	1384.8	1402.0	1466.9	1490.0	1525.1	1547.0	1458.6	1305.2
37.5°	1423.5	1432.9	1421.9	1446.0	1491.0	1569.0	1590.0	1626.1	1649.1	1567.5	1423.0
40°	1497.8	1482.7	1490.5	1507.8	1553.9	1655.4	1649.7	1686.8	1694.2	1660.1	1532.9
42.5°	1577.9	1570.6	1559.6	1598.9	1637.6	1711.4	1723.0	1705.7	1742.9	1750.7	1690.0
45°	1673.7	1682.6	1684.2	1685.3	1719.3	1783.7	1768.0	1752.8	1795.7	1852.8	1787.4
47.5°	1762.7	1734.5	1754.9	1783.2	1831.3	1831.9	1850.2	1814.1	1859.6	1910.4	1875.3
50°	1792.6	1779.0	1806.2	1859.6	1933.9	1941.8	1943.9	1892.6	1916.1	1956.5	1905.7
52.5°	1781.1	1776.4	1846.0	1928.7	2037.6	2077.4	2087.9	2024.5	2037.6	2019.3	1972.7
55°	1726.1	1740.2	1810.4	1979.0	2146.0	2269.0	2288.9	2208.8	2125.6	2139.7	2088.4
56°	1650.7	1626.1	1704.6	1921.9	2141.3	2331.3	2347.5	2247.5	2191.0	2172.7	2087.3
57.5°	1400.5	1368.5	1471.7	1729.2	2022.4	2307.7	2319.8	2263.8	2180.0	2142.8	1935.0
60°	819.9	835.6	966.4	1192.6	1560.1	1892.1	1932.4	1973.2	1917.2	1750.7	1440.2
62.5°	395.8	385.8	479.6	683.7	950.7	1207.8	1195.8	1310.4	1373.2	1243.9	909.4
65°	207.3	206.3	261.8	373.3	522.5	634.5	645.5	707.3	793.7	640.8	461.8
67.5°	152.3	156.5	184.3	262.3	336.1	342.9	341.3	372.2	380.6	322.0	283.8
70°	119.4	121.5	141.9	199.5	250.3	224.1	219.4	223.0	247.6	258.1	245.5
72.5°	86.4	88.5	105.8	134.5	156.5	152.9	156.0	176.4	206.8	217.8	204.7
75°	57.6	59.2	68.6	82.2	92.7	100.0	105.8	129.3	157.6	163.9	157.6
77.5°	39.8	41.4	47.6	58.1	59.2	63.9	66.0	77.0	94.2	102.1	97.9
80°	22.5	22.5	25.7	29.8	36.6	42.9	44.0	52.9	60.7	66.0	67.0
82.5°	10.5	11.0	13.6	18.3	24.1	29.8	30.9	36.6	42.4	47.6	49.2
85°	5.2	5.8	7.9	11.0	14.7	17.8	17.3	17.8	18.8	17.8	18.3
87.5°	1.6	1.6	2.1	2.6	2.1	2.6	2.6	3.1	3.7	4.2	4.7
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°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6
2.5°	829.3	830.9	820.4	830.3	826.7	826.1	833.5	832.4	835.0	834.0	827.7
5°	829.8	826.1	837.1	827.2	831.9	841.8	835.0	850.7	842.9	848.1	836.6
7.5°	846.0	847.1	845.0	849.2	847.1	851.8	848.1	851.8	845.5	846.0	856.5
10°	860.2	857.0	860.7	855.5	859.1	857.6	849.2	846.6	848.7	846.0	852.8
12.5°	886.3	880.6	878.0	871.7	867.5	851.8	838.7	831.4	841.3	842.9	839.8
15°	913.0	913.6	901.5	887.4	861.2	837.7	840.8	843.4	843.4	847.6	839.8
17.5°	929.8	929.8	918.8	890.5	863.8	850.2	847.1	838.7	831.4	830.3	829.8
20°	959.1	950.2	925.1	890.0	862.8	856.5	832.9	813.1	797.9	792.6	792.1
22.5°	992.6	970.1	935.0	891.1	861.2	852.3	808.3	778.5	751.3	739.8	741.3
25°	1023.5	987.4	940.8	886.3	855.5	812.5	763.3	722.0	693.7	684.3	679.6
27.5°	1045.0	1005.7	940.8	890.5	834.0	768.0	717.8	664.9	640.3	634.0	635.0
30°	1073.8	1028.7	957.0	881.6	791.1	710.4	650.2	615.7	601.0	595.8	599.4
32.5°	1141.3	1089.0	979.5	860.2	740.3	652.8	604.2	584.8	563.3	552.9	549.2
35°	1214.6	1146.0	1001.5	824.0	683.2	600.5	570.1	552.3	526.7	515.2	517.3
37.5°	1318.3	1219.3	1003.1	764.4	621.4	571.2	543.4	515.7	494.7	476.9	471.7
40°	1458.0	1319.3	999.4	701.5	571.7	536.6	516.2	481.7	458.1	445.5	448.1
42.5°	1581.1	1436.6	984.2	630.3	526.7	513.1	490.0	456.0	433.0	419.9	418.8
45°	1684.7	1523.0	955.5	569.6	489.0	486.9	460.2	434.0	415.7	403.6	408.9
47.5°	1780.5	1592.6	912.0	508.9	454.4	458.6	433.0	416.7	405.2	394.2	393.7
50°	1815.1	1591.6	873.8	458.6	426.7	424.6	423.5	406.3	394.2	384.8	389.0
52.5°	1872.7	1609.4	832.4	424.1	401.6	402.1	405.7	393.2	379.6	373.8	379.0
55°	1955.4	1612.0	741.3	383.8	380.6	384.3	384.3	375.9	364.4	359.7	357.1
56°	1887.9	1534.0	664.9	373.3	370.1	370.1	380.1	370.7	356.5	352.9	349.7
57.5°	1741.3	1343.9	556.5	360.7	356.0	363.3	368.6	358.6	345.5	340.3	343.4
60°	1201.0	909.4	418.3	333.5	333.5	345.5	349.7	335.1	329.3	328.8	324.6
62.5°	701.0	529.8	327.2	308.9	309.9	319.9	323.0	314.6	307.3	316.2	320.4
65°	371.7	316.2	280.6	282.7	283.2	291.1	304.7	304.2	303.7	306.3	306.8
67.5°	269.1	262.8	255.0	252.9	253.9	259.7	273.3	283.8	283.2	277.0	272.2
70°	239.8	230.9	226.2	226.7	222.5	229.3	240.3	247.1	235.1	227.7	224.6
72.5°	199.5	196.8	193.7	194.2	185.9	184.3	171.7	171.7	168.6	166.5	170.1
75°	152.3	151.3	152.9	150.3	141.4	131.9	124.6	117.8	107.3	103.1	101.0
77.5°	96.3	99.5	103.1	97.4	93.7	86.9	79.6	72.8	64.4	59.7	59.7
80°	65.4	68.1	70.7	69.6	65.4	59.2	53.4	46.1	40.3	36.6	36.1
82.5°	49.7	51.8	55.5	51.3	47.1	41.9	37.2	31.9	26.7	22.5	22.5
85°	17.8	20.4	22.5	24.6	26.2	26.7	23.0	18.8	15.2	12.0	11.5
87.5°	4.7	5.2	5.8	5.2	5.2	5.2	5.8	5.2	4.7	3.7	3.7
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)