

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: P526346

Luminaire Tested: **GALN-SA1B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526346  
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-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 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: 4573 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

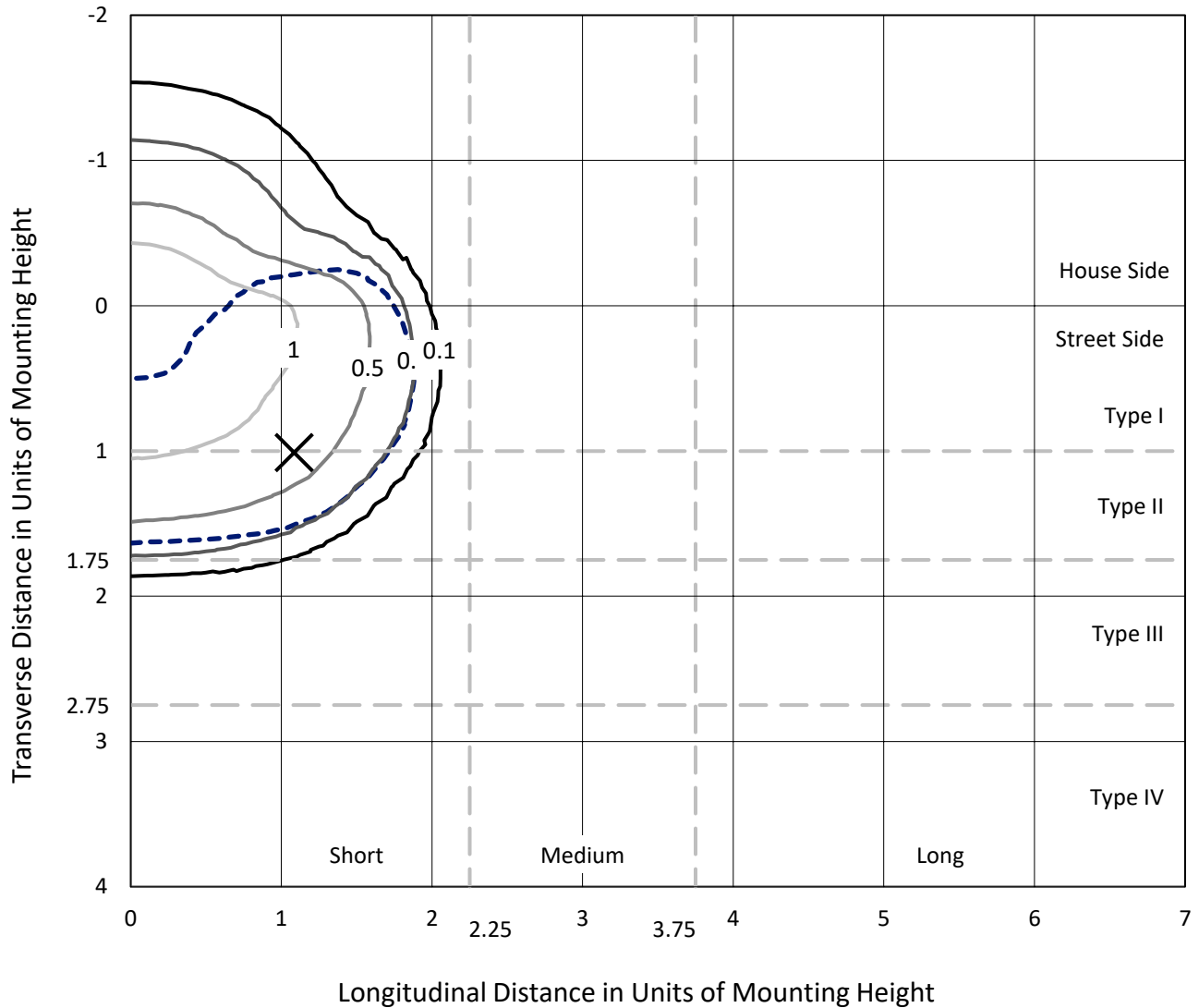
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

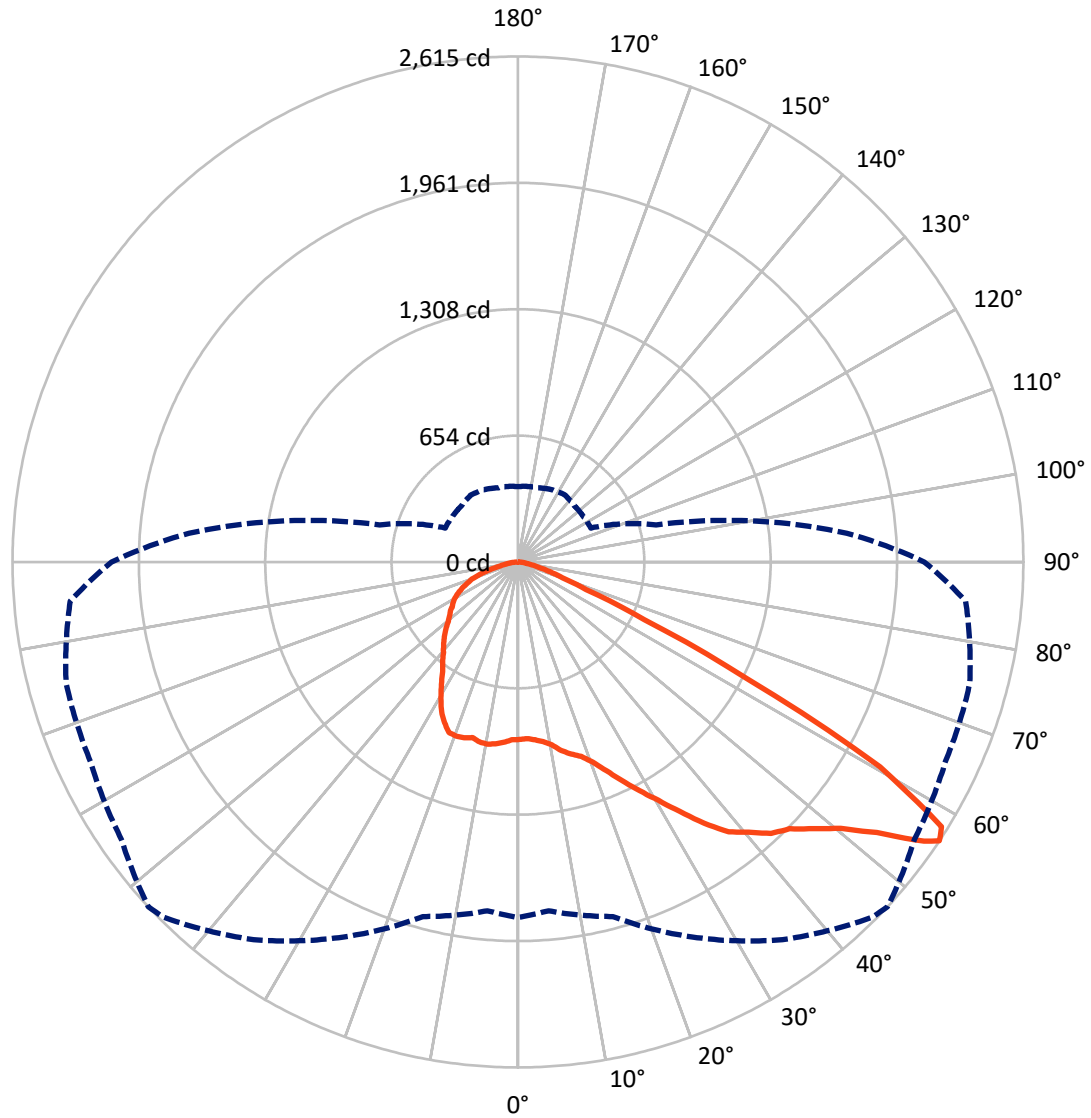
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	1449.1	0.0	1449.1
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	3123.9	0.0	3123.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	4573.0	0.0	4573.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	2.0
10°-20°	282.3	6.2
20°-30°	499.1	10.9
30°-40°	749.6	16.4
40°-50°	1028.8	22.5
50°-60°	1225.7	26.8
60°-70°	524.5	11.5
70°-80°	148.4	3.2
80°-90°	25.0	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°	4573.0	100.0
0°-180°	4573.0	100.0

**Coefficient of Utilization**

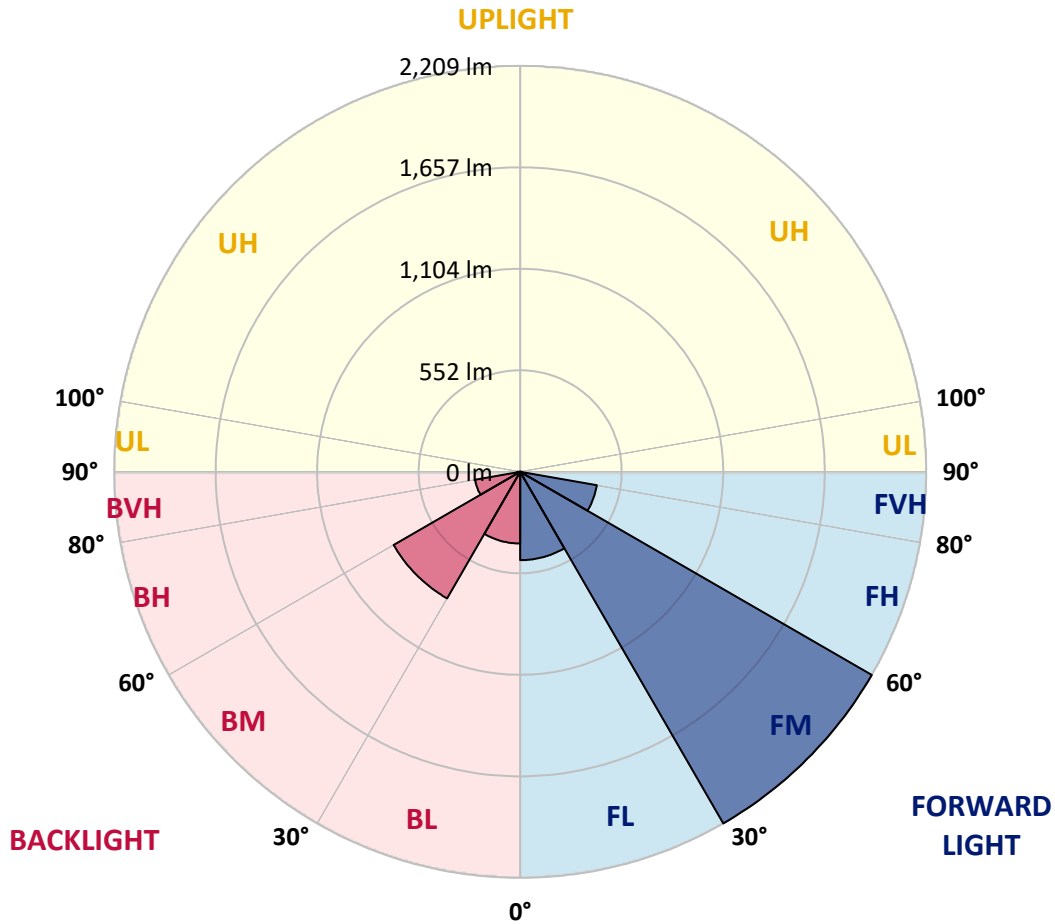


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.8	10.5			
FM (30°-60°)	2208.9	48.3			
FH (60°-80°)	423.6	9.3			G0/660
FVH (80°-90°)	10.6	0.2			G1/100
BL (0°-30°)	390.2	8.5	B1/500		
BM (30°-60°)	795.3	17.4	B1/1000		
BH (60°-80°)	249.3	5.5	B1/500		G1/500
BVH (80°-90°)	14.4	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°	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6
2.5°	915.1	913.3	912.2	921.5	918.0	918.6	915.1	918.6	920.9	915.7	923.2
5°	913.3	918.6	913.9	916.8	924.4	922.1	924.4	931.4	929.7	927.9	925.6
7.5°	929.7	930.2	933.7	934.9	937.2	934.9	938.4	944.8	943.1	933.2	934.3
10°	953.0	954.2	954.7	961.2	965.2	965.8	961.7	955.9	955.3	968.7	959.4
12.5°	979.8	976.9	983.9	986.2	990.9	996.1	1001.4	989.1	996.7	997.3	986.2
15°	1018.9	1021.8	1013.6	1013.6	1015.4	1016.0	1030.6	1024.7	1023.6	1017.1	1021.8
17.5°	1077.2	1057.4	1056.8	1048.6	1047.5	1052.1	1057.4	1062.0	1077.8	1065.0	1039.9
20°	1119.8	1124.5	1107.5	1097.6	1099.4	1109.9	1104.6	1125.6	1136.7	1115.7	1091.2
22.5°	1195.0	1179.3	1183.4	1161.2	1162.9	1174.0	1173.4	1195.0	1201.4	1168.2	1132.6
25°	1245.8	1241.7	1245.2	1227.7	1230.0	1238.8	1252.8	1288.3	1277.8	1241.1	1158.9
27.5°	1319.8	1311.7	1308.8	1302.3	1300.0	1323.3	1339.7	1377.6	1370.0	1316.3	1205.5
30°	1395.7	1390.4	1393.3	1367.1	1376.4	1426.0	1430.6	1482.6	1479.1	1384.6	1257.4
32.5°	1448.1	1451.1	1456.3	1441.7	1483.1	1522.8	1538.5	1597.4	1600.4	1501.8	1357.7
35°	1532.7	1522.8	1525.7	1542.6	1561.9	1634.2	1659.9	1698.9	1723.4	1624.9	1454.0
37.5°	1585.8	1596.3	1584.0	1610.9	1661.0	1747.9	1771.2	1811.5	1837.2	1746.2	1585.2
40°	1668.6	1651.7	1660.4	1679.7	1731.0	1844.2	1837.7	1879.1	1887.3	1849.4	1707.7
42.5°	1757.8	1749.7	1737.4	1781.2	1824.3	1906.6	1919.4	1900.1	1941.6	1950.3	1882.6
45°	1864.6	1874.5	1876.2	1877.4	1915.3	1987.0	1969.5	1952.6	2000.5	2064.0	1991.1
47.5°	1963.7	1932.2	1955.0	1986.5	2040.1	2040.7	2061.1	2020.9	2071.6	2128.2	2089.1
50°	1997.0	1981.8	2012.1	2071.6	2154.4	2163.2	2165.5	2108.4	2134.6	2179.5	2122.9
52.5°	1984.1	1978.9	2056.4	2148.6	2269.9	2314.2	2325.9	2255.3	2269.9	2249.5	2197.6
55°	1922.9	1938.6	2016.8	2204.6	2390.6	2527.7	2549.9	2460.6	2367.9	2383.6	2326.5
56°	1838.9	1811.5	1899.0	2141.0	2385.4	2597.1	2615.2	2503.8	2440.8	2420.4	2325.3
57.5°	1560.1	1524.5	1639.4	1926.4	2253.0	2570.8	2584.3	2521.9	2428.5	2387.1	2155.6
60°	913.3	930.8	1076.6	1328.6	1738.0	2107.8	2152.7	2198.2	2135.8	1950.3	1604.4
62.5°	440.9	429.8	534.2	761.7	1059.1	1345.5	1332.1	1459.8	1529.8	1385.7	1013.1
65°	231.0	229.8	291.6	415.8	582.1	706.9	719.1	787.9	884.2	713.9	514.4
67.5°	169.7	174.4	205.3	292.2	374.4	382.0	380.3	414.7	424.0	358.7	316.1
70°	133.0	135.3	158.1	222.2	278.8	249.6	244.4	248.5	275.9	287.5	273.5
72.5°	96.2	98.6	117.8	149.9	174.4	170.3	173.8	196.5	230.4	242.6	228.0
75°	64.2	65.9	76.4	91.6	103.2	111.4	117.8	144.1	175.6	182.5	175.6
77.5°	44.3	46.1	53.1	64.7	65.9	71.2	73.5	85.7	105.0	113.7	109.1
80°	25.1	25.1	28.6	33.2	40.8	47.8	49.0	58.9	67.7	73.5	74.7
82.5°	11.7	12.2	15.2	20.4	26.8	33.2	34.4	40.8	47.2	53.1	54.8
85°	5.8	6.4	8.7	12.2	16.3	19.8	19.2	19.8	21.0	19.8	20.4
87.5°	1.7	1.7	2.3	2.9	2.3	2.9	2.9	3.5	4.1	4.7	5.2
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°	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6	918.6
2.5°	923.8	925.6	913.9	925.0	920.9	920.3	928.5	927.3	930.2	929.1	922.1
5°	924.4	920.3	932.6	921.5	926.7	937.8	930.2	947.7	939.0	944.8	932.0
7.5°	942.5	943.7	941.3	946.0	943.7	948.9	944.8	948.9	941.9	942.5	954.2
10°	958.2	954.7	958.8	953.0	957.1	955.3	946.0	943.1	945.4	942.5	950.1
12.5°	987.4	981.0	978.1	971.1	966.4	948.9	934.3	926.2	937.2	939.0	935.5
15°	1017.1	1017.7	1004.3	988.6	959.4	933.2	936.7	939.6	939.6	944.2	935.5
17.5°	1035.8	1035.8	1023.6	992.1	962.3	947.2	943.7	934.3	926.2	925.0	924.4
20°	1068.5	1058.6	1030.6	991.5	961.2	954.2	927.9	905.7	888.8	883.0	882.4
22.5°	1105.8	1080.7	1041.6	992.6	959.4	949.5	900.5	867.3	836.9	824.1	825.8
25°	1140.2	1100.0	1048.1	987.4	953.0	905.2	850.3	804.3	772.8	762.3	757.0
27.5°	1164.1	1120.4	1048.1	992.1	929.1	855.6	799.6	740.7	713.3	706.3	707.4
30°	1196.2	1146.0	1066.1	982.1	881.3	791.4	724.4	685.9	669.5	663.7	667.8
32.5°	1271.4	1213.1	1091.2	958.2	824.7	727.3	673.0	651.5	627.5	615.9	611.8
35°	1353.1	1276.7	1115.7	918.0	761.1	669.0	635.1	615.3	586.7	573.9	576.2
37.5°	1468.6	1358.3	1117.5	851.5	692.3	636.3	605.4	574.5	551.1	531.3	525.5
40°	1624.3	1469.7	1113.4	781.5	636.9	597.8	575.1	536.6	510.3	496.3	499.2
42.5°	1761.3	1600.4	1096.5	702.2	586.7	571.6	545.9	508.0	482.3	467.7	466.6
45°	1876.8	1696.6	1064.4	634.5	544.7	542.4	512.7	483.5	463.1	449.7	455.5
47.5°	1983.5	1774.2	1016.0	566.9	506.2	510.9	482.3	464.2	451.4	439.2	438.6
50°	2022.0	1773.0	973.4	510.9	475.3	473.0	471.8	452.6	439.2	428.7	433.3
52.5°	2086.2	1792.8	927.3	472.4	447.3	447.9	452.0	438.0	422.8	416.4	422.3
55°	2178.3	1795.7	825.8	427.5	424.0	428.1	428.1	418.8	405.9	400.7	397.8
56°	2103.1	1708.8	740.7	415.8	412.3	412.3	423.4	412.9	397.2	393.1	389.6
57.5°	1939.8	1497.1	620.0	401.8	396.6	404.8	410.6	399.5	384.9	379.1	382.6
60°	1337.9	1013.1	466.0	371.5	371.5	384.9	389.6	373.3	366.8	366.3	361.6
62.5°	780.9	590.2	364.5	344.1	345.3	356.3	359.8	350.5	342.4	352.3	356.9
65°	414.1	352.3	312.6	314.9	315.5	324.3	339.4	338.9	338.3	341.2	341.8
67.5°	299.8	292.8	284.0	281.7	282.9	289.3	304.4	316.1	315.5	308.5	303.3
70°	267.1	257.2	252.0	252.5	247.9	255.5	267.7	275.3	261.9	253.7	250.2
72.5°	222.2	219.3	215.8	216.4	207.0	205.3	191.3	191.3	187.8	185.5	189.5
75°	169.7	168.6	170.3	167.4	157.5	147.0	138.8	131.2	119.6	114.9	112.6
77.5°	107.3	110.8	114.9	108.5	104.4	96.8	88.6	81.1	71.7	66.5	66.5
80°	72.9	75.8	78.7	77.6	72.9	65.9	59.5	51.3	44.9	40.8	40.2
82.5°	55.4	57.7	61.8	57.2	52.5	46.7	41.4	35.6	29.7	25.1	25.1
85°	19.8	22.7	25.1	27.4	29.2	29.7	25.7	21.0	16.9	13.4	12.8
87.5°	5.2	5.8	6.4	5.8	5.8	5.8	6.4	5.8	5.2	4.1	4.1
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)