

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: P647703

Luminaire Tested: **GALN-SA1A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3269.8 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

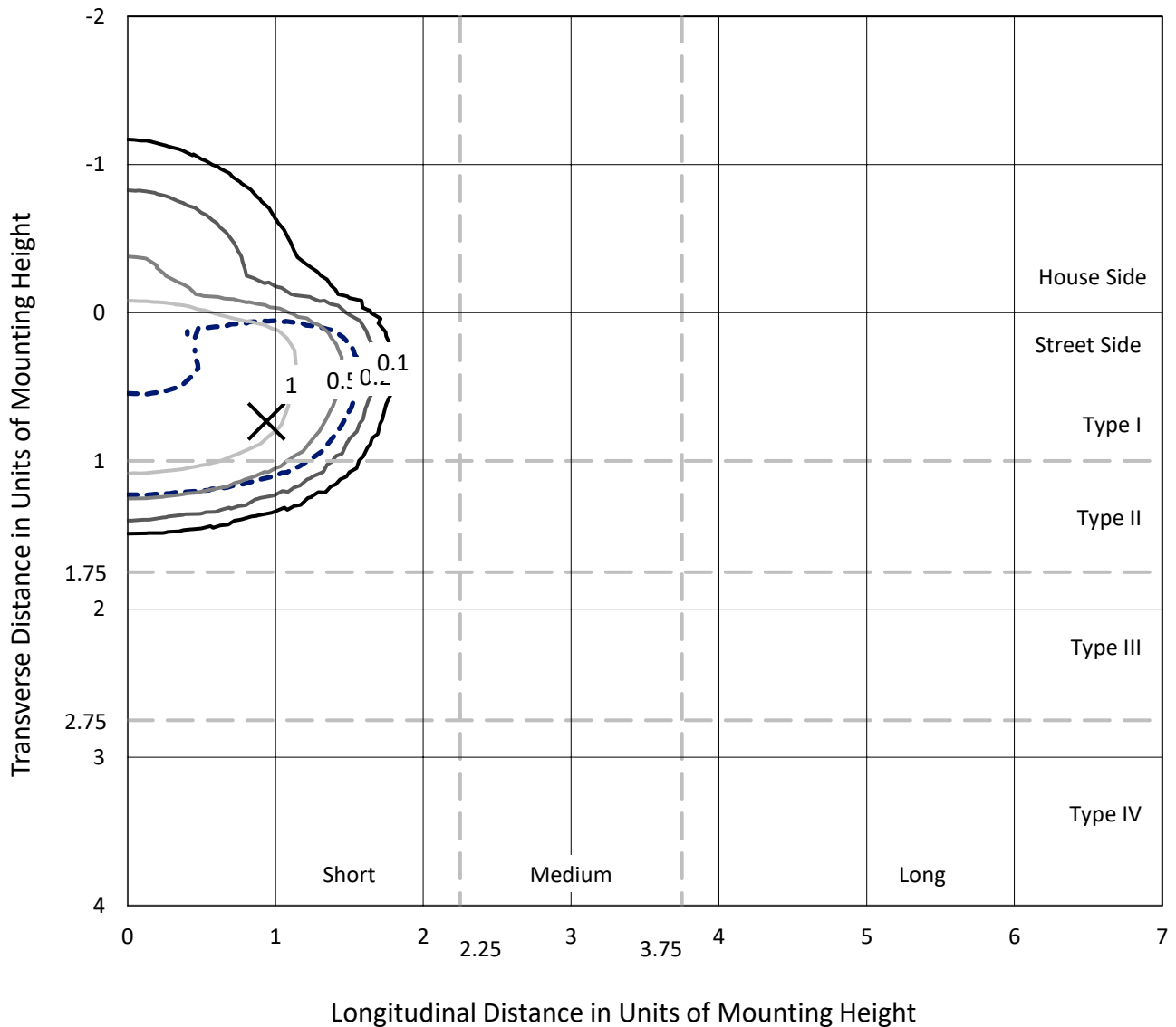
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

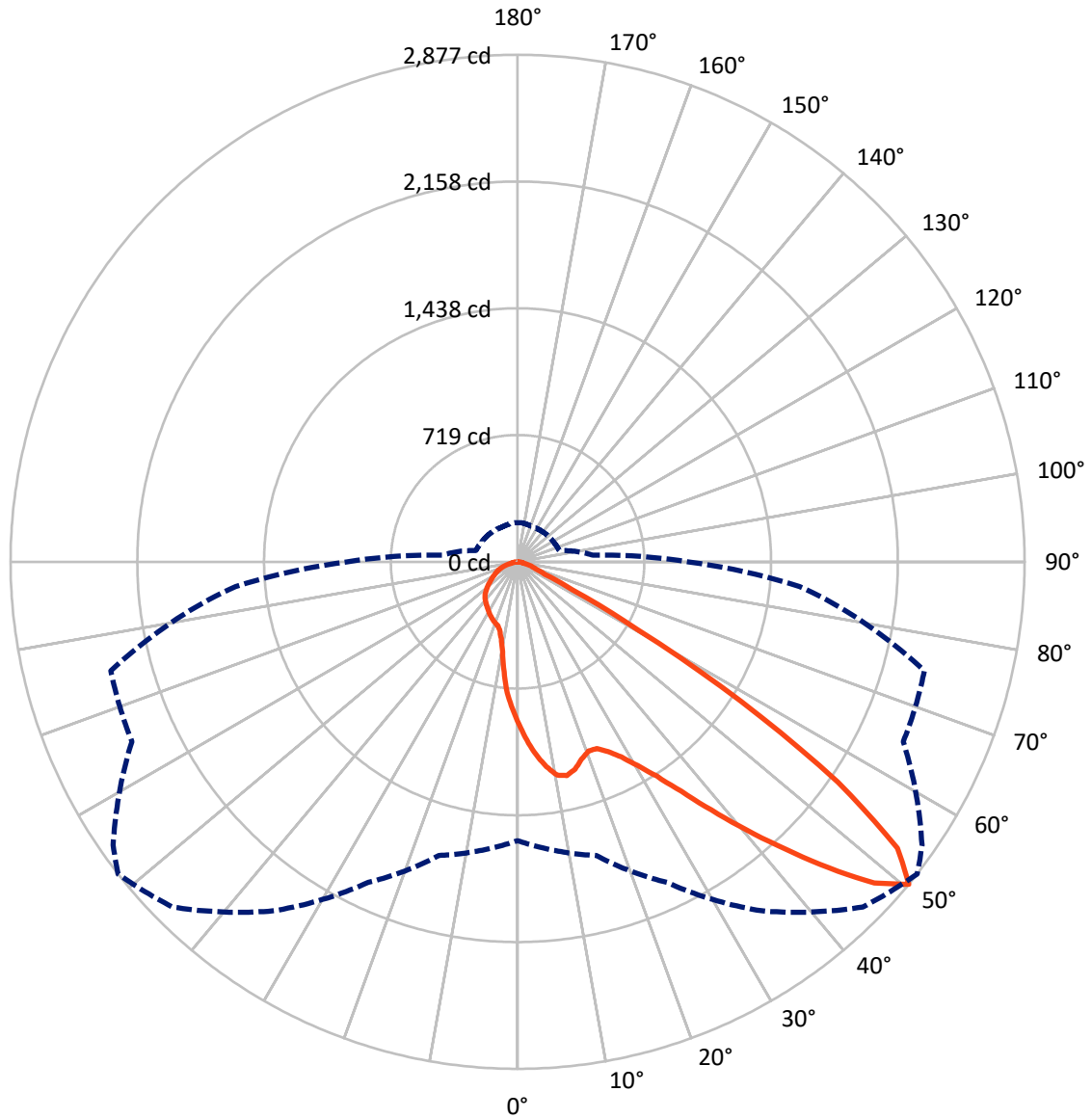
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	614.6	0.0	614.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	2655.2	0.0	2655.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	3269.8	0.0	3269.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	2.6
10°-20°	227.7	7.0
20°-30°	383.5	11.7
30°-40°	643.6	19.7
40°-50°	984.6	30.1
50°-60°	717.8	22.0
60°-70°	159.8	4.9
70°-80°	57.6	1.8
80°-90°	10.2	0.3
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°	3269.8	100.0
0°-180°	3269.8	100.0

**Coefficient of Utilization**

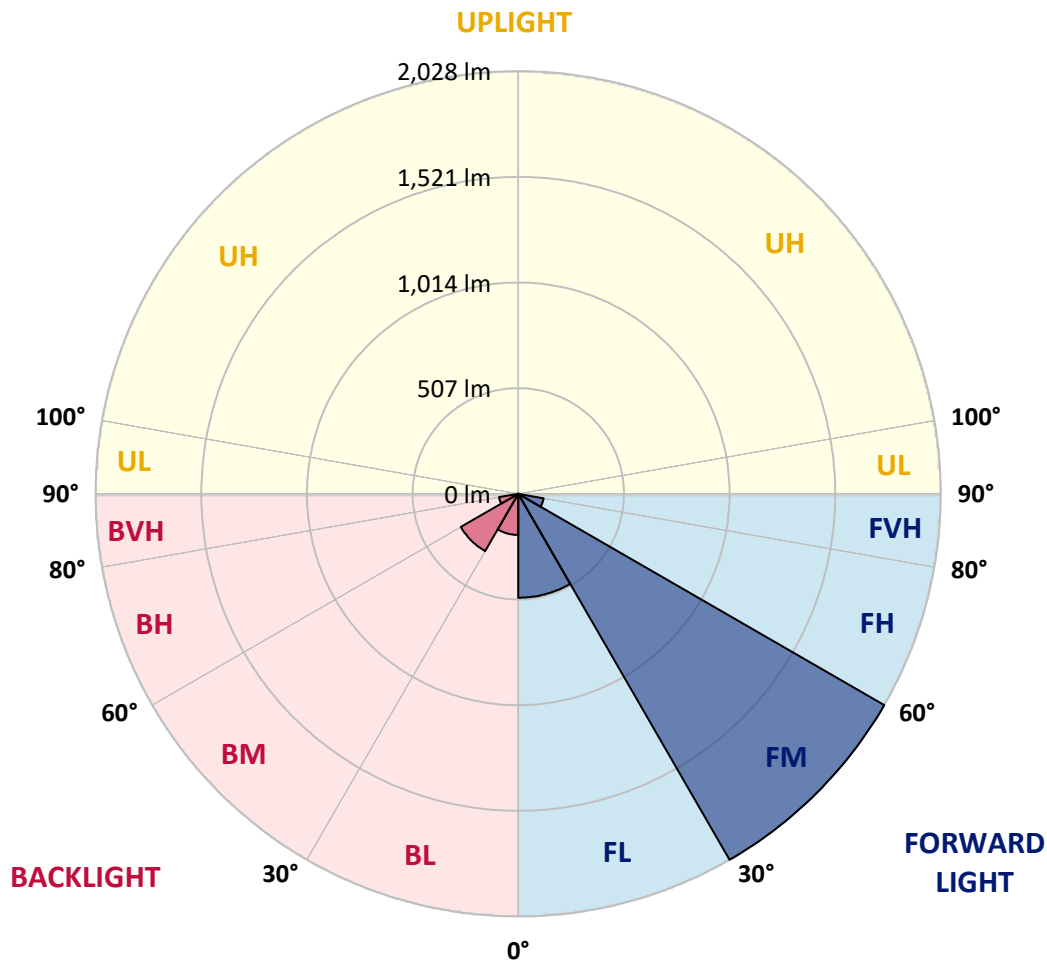


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.8	15.3			
FM (30°-60°)	2028.1	62.0			
FH (60°-80°)	123.7	3.8			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	197.4	6.0	B1/500		
BM (30°-60°)	317.9	9.7	B1/1000		
BH (60°-80°)	93.6	2.9	B0/110		G0/110
BVH (80°-90°)	5.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7
2.5°	1085.2	1064.3	1066.7	1051.7	1035.6	1030.9	1014.3	998.6	986.7	961.5	938.3
5°	1186.1	1179.8	1170.4	1158.5	1146.3	1116.4	1099.4	1079.8	1036.4	997.4	958.8
7.5°	1200.7	1199.5	1204.6	1204.6	1209.0	1197.5	1173.5	1159.7	1113.6	1050.2	978.4
10°	1098.2	1101.8	1126.6	1158.9	1203.9	1234.9	1231.0	1227.5	1177.1	1090.3	1001.7
12.5°	1016.6	1008.8	1023.4	1050.9	1118.4	1193.6	1244.4	1244.8	1231.8	1154.6	1018.6
15°	970.6	976.1	980.0	993.0	1043.9	1131.0	1220.4	1246.8	1303.9	1199.9	1045.5
17.5°	1000.1	981.6	980.8	984.0	1010.0	1075.4	1175.9	1221.2	1343.3	1258.2	1078.5
20°	1038.7	1038.3	1027.3	1023.4	1023.0	1081.3	1146.7	1208.2	1364.2	1333.9	1112.0
22.5°	1106.5	1106.5	1088.4	1079.8	1061.2	1108.9	1150.6	1192.4	1398.9	1385.9	1128.2
25°	1220.0	1201.5	1170.4	1149.1	1138.4	1155.4	1192.4	1229.9	1429.3	1441.1	1161.7
27.5°	1324.8	1295.6	1280.3	1243.6	1229.5	1219.6	1253.5	1291.3	1464.7	1527.0	1179.8
30°	1443.9	1438.7	1411.1	1363.8	1328.8	1310.7	1341.7	1379.2	1529.7	1614.9	1221.6
32.5°	1656.6	1610.2	1572.7	1514.8	1457.6	1419.0	1449.7	1474.5	1637.7	1706.7	1267.3
35°	1886.3	1871.4	1806.8	1702.3	1614.9	1580.2	1598.3	1616.8	1763.4	1846.9	1344.1
37.5°	2112.1	2091.6	2038.5	1950.6	1844.2	1773.7	1786.6	1808.3	1904.5	2036.1	1437.9
40°	2274.5	2249.3	2222.5	2209.5	2103.9	2007.4	1999.9	2005.3	2095.2	2213.5	1542.0
42.5°	2286.4	2317.4	2325.7	2378.1	2353.3	2274.1	2228.0	2229.2	2277.3	2388.8	1647.2
45°	2261.5	2232.7	2293.8	2436.9	2518.8	2555.9	2478.3	2468.4	2390.0	2490.5	1699.6
47.5°	2001.0	2008.9	2112.1	2338.4	2575.2	2740.7	2722.6	2689.8	2450.2	2486.9	1691.3
50°	1581.7	1629.4	1725.2	2006.9	2417.6	2769.9	2876.7	2800.9	2414.4	2389.2	1607.0
52.5°	1053.3	1073.0	1136.1	1499.8	1943.9	2475.8	2699.3	2716.6	2381.3	2261.1	1500.1
55°	468.9	467.4	556.0	783.4	1219.6	1884.0	2205.6	2311.2	2254.0	2130.7	1396.2
57.5°	198.6	205.3	241.6	338.5	599.8	1136.8	1494.3	1586.9	1733.5	1749.6	1071.1
60°	134.4	135.1	145.0	169.4	251.0	533.9	783.8	894.9	999.7	992.6	568.2
62.5°	105.6	108.4	115.9	125.7	148.9	242.3	350.7	412.6	419.3	352.7	215.6
65°	90.2	90.7	98.1	106.4	116.7	141.1	169.0	172.2	174.1	167.9	158.4
67.5°	74.5	75.2	81.2	90.7	100.1	108.0	115.9	119.8	128.9	146.6	144.2
70°	59.1	60.3	65.4	73.3	82.0	86.7	96.5	100.1	108.4	122.1	127.7
72.5°	44.9	45.3	49.6	55.2	63.0	67.8	76.0	80.0	85.5	97.3	102.4
75°	32.3	33.5	36.6	39.4	40.6	43.8	51.6	56.0	63.8	69.0	69.4
77.5°	16.9	17.7	18.6	18.6	22.5	28.3	33.5	35.9	41.3	45.3	43.4
80°	6.7	7.1	9.1	12.2	15.7	20.5	24.0	25.2	29.9	32.3	33.5
82.5°	3.9	4.3	5.9	8.7	11.4	14.6	17.3	18.6	21.7	24.4	25.2
85°	2.0	2.3	3.5	5.5	7.5	9.1	8.7	8.3	8.3	7.9	8.3
87.5°	0.8	0.8	1.2	1.2	1.2	1.6	2.0	2.0	2.0	2.3	2.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7
2.5°	922.9	907.1	892.5	865.8	836.6	828.3	794.4	782.2	773.5	763.3	760.1
5°	927.6	906.7	859.8	805.9	762.9	707.8	671.5	632.4	604.1	597.0	595.0
7.5°	937.5	901.6	820.8	739.2	651.4	576.5	519.4	488.7	461.4	459.9	457.1
10°	948.5	886.3	778.3	650.2	537.9	468.5	434.3	420.9	414.1	412.6	411.8
12.5°	957.5	883.1	730.6	563.5	457.5	415.7	405.5	404.3	407.1	407.9	409.4
15°	961.5	870.5	673.1	485.9	407.5	392.1	396.4	401.1	403.1	408.3	404.3
17.5°	969.0	854.3	602.1	424.4	379.4	382.3	389.7	395.3	398.4	401.9	396.8
20°	973.0	839.8	535.5	387.7	369.7	374.7	385.0	389.3	393.3	394.9	388.9
22.5°	969.4	809.8	476.8	358.2	360.2	366.8	375.9	380.7	378.3	372.0	368.5
25°	960.0	767.7	415.7	339.3	346.8	358.6	365.7	362.1	357.8	354.2	353.1
27.5°	959.6	716.0	371.6	322.0	335.4	351.5	349.1	346.0	348.0	345.2	342.0
30°	961.5	665.9	335.4	312.1	327.1	335.0	337.7	334.6	336.9	331.8	333.4
32.5°	951.3	617.1	311.7	300.7	317.2	316.8	325.9	328.2	322.8	312.1	313.7
35°	955.6	577.7	291.6	295.6	306.2	306.2	313.3	310.5	296.0	289.6	291.2
37.5°	985.6	539.1	281.7	288.5	295.6	298.7	296.4	284.5	280.9	280.9	281.7
40°	1013.9	506.0	275.9	286.9	285.7	287.7	270.3	271.5	271.5	271.9	269.9
42.5°	1039.1	483.5	271.1	277.4	279.4	269.1	258.5	257.3	260.1	259.7	258.1
45°	1048.2	465.0	264.4	266.8	268.3	251.4	246.3	243.9	247.0	248.3	249.9
47.5°	1013.5	449.6	256.9	252.2	249.1	238.0	231.3	227.0	230.9	237.6	239.2
50°	969.0	429.6	245.1	236.1	229.3	224.6	219.9	215.6	218.3	223.1	221.8
52.5°	903.2	398.0	230.1	220.6	209.2	210.4	206.1	203.7	205.3	205.3	204.1
55°	809.4	327.1	204.9	198.2	188.8	191.9	192.7	189.6	186.4	189.2	186.7
57.5°	552.5	230.9	182.8	182.8	173.4	177.7	177.3	169.8	162.3	163.2	161.5
60°	319.6	184.0	168.7	167.1	157.2	160.7	161.5	156.4	145.0	145.8	144.2
62.5°	181.7	157.2	147.4	145.0	143.1	146.2	146.2	139.5	129.7	130.4	128.9
65°	154.5	145.8	131.6	131.2	130.4	131.2	128.1	121.0	112.3	108.8	109.2
67.5°	140.3	134.8	121.0	117.4	115.1	114.7	108.8	102.0	98.1	95.0	94.6
70°	122.9	118.6	108.4	103.7	101.2	95.8	89.8	85.5	80.0	78.5	80.0
72.5°	97.3	96.9	93.0	87.9	82.8	78.5	73.3	67.4	62.2	61.1	58.3
75°	67.4	68.2	69.0	68.2	63.8	58.3	52.4	47.7	41.3	37.8	37.0
77.5°	44.2	45.3	46.5	44.9	42.1	37.0	33.1	27.2	22.5	19.7	19.3
80°	32.3	33.9	34.7	33.5	30.4	26.4	22.1	17.3	13.8	11.4	11.4
82.5°	24.8	26.4	27.2	25.2	22.1	18.9	15.7	12.2	9.5	7.5	7.1
85°	8.7	8.3	9.9	10.3	12.2	11.4	9.5	7.1	5.5	3.9	3.5
87.5°	2.3	2.3	2.7	2.7	2.3	2.0	2.0	2.0	1.6	1.2	1.2
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)