

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: P646728

Luminaire Tested: **GALN-SA1C-835-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5452 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

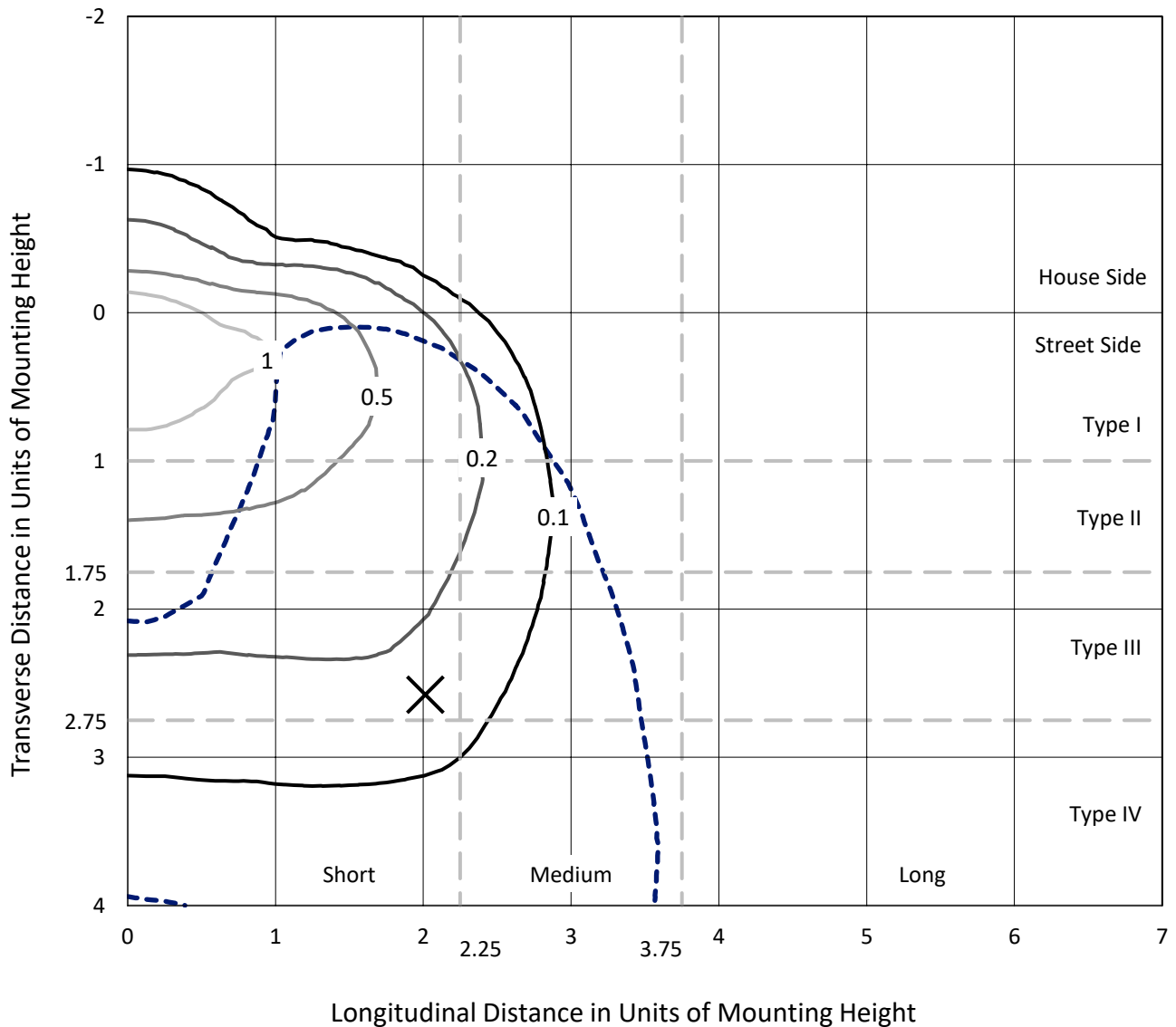
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

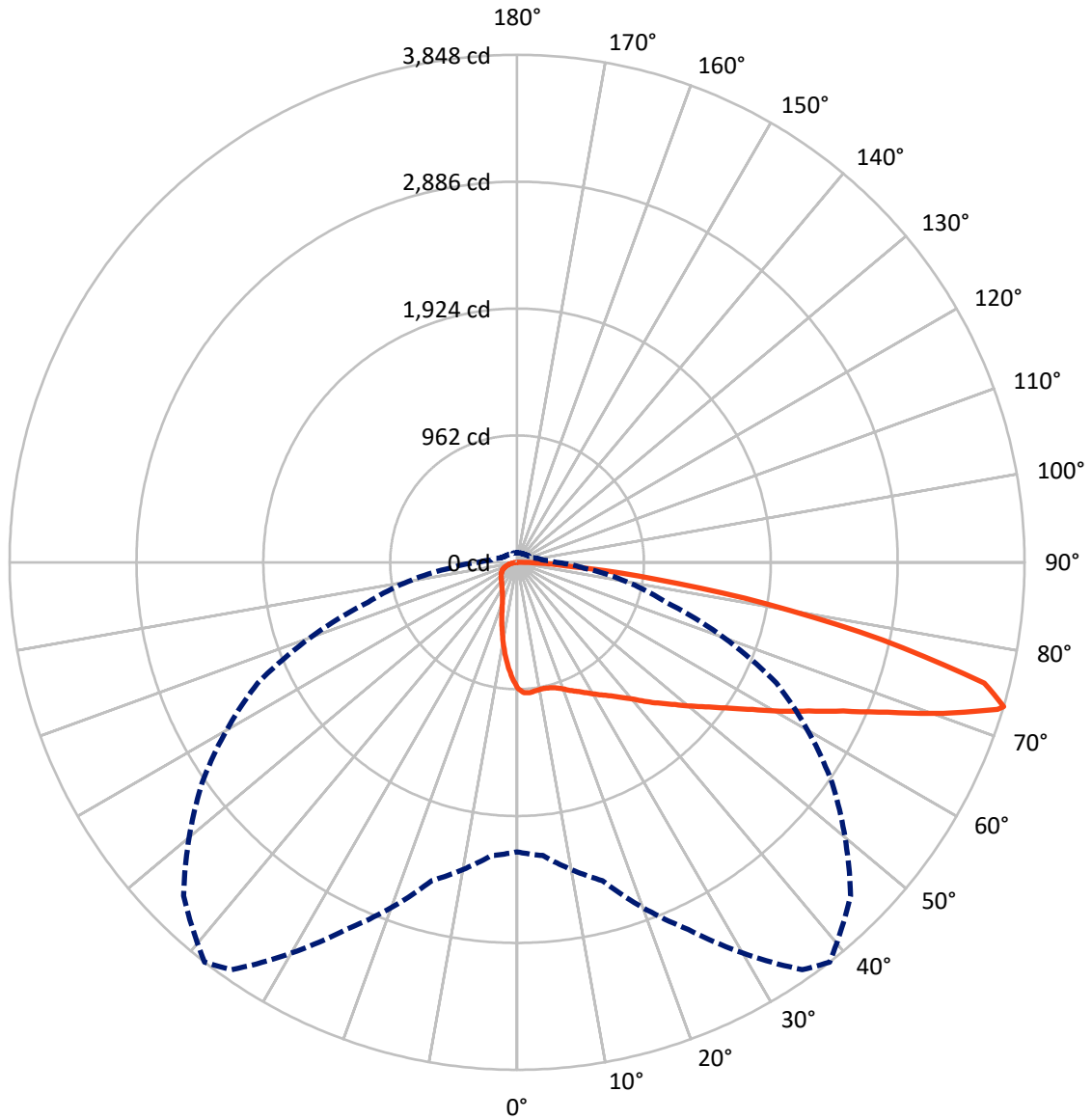
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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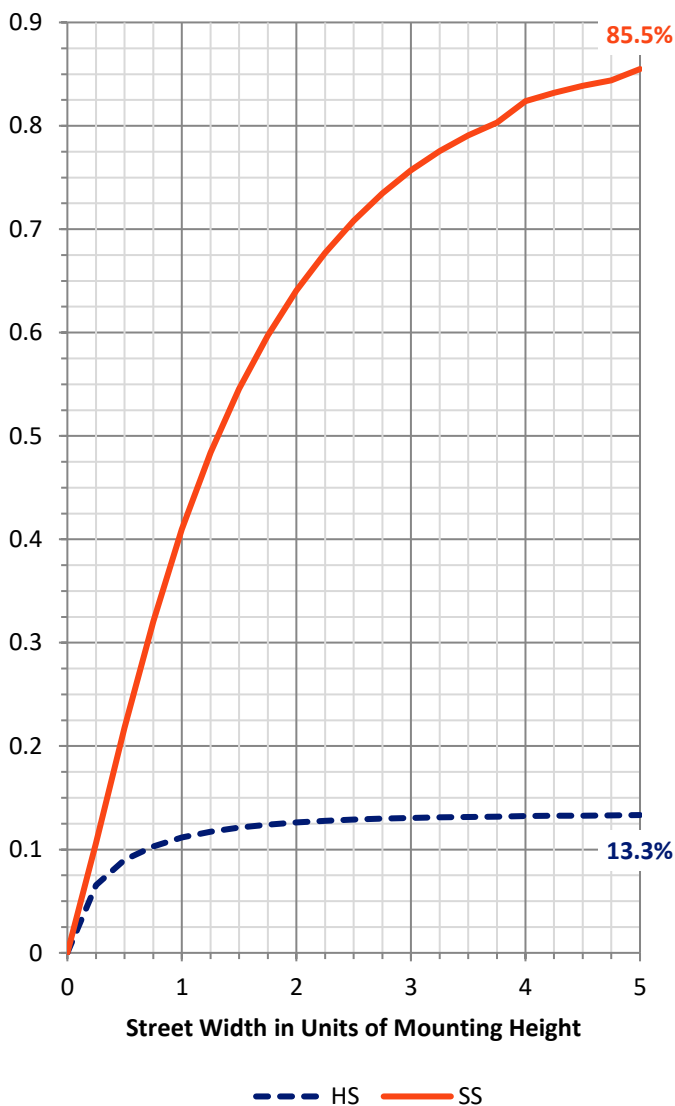
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	732.9	0.0	732.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	4719.1	0.0	4719.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5452.0	0.0	5452.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.6	1.5
10°-20°	214.4	3.9
20°-30°	333.9	6.1
30°-40°	489.7	9.0
40°-50°	726.4	13.3
50°-60°	1029.2	18.9
60°-70°	1305.5	23.9
70°-80°	1086.8	19.9
80°-90°	182.6	3.3
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°	5452.0	100.0
0°-180°	5452.0	100.0

**Coefficient of Utilization**



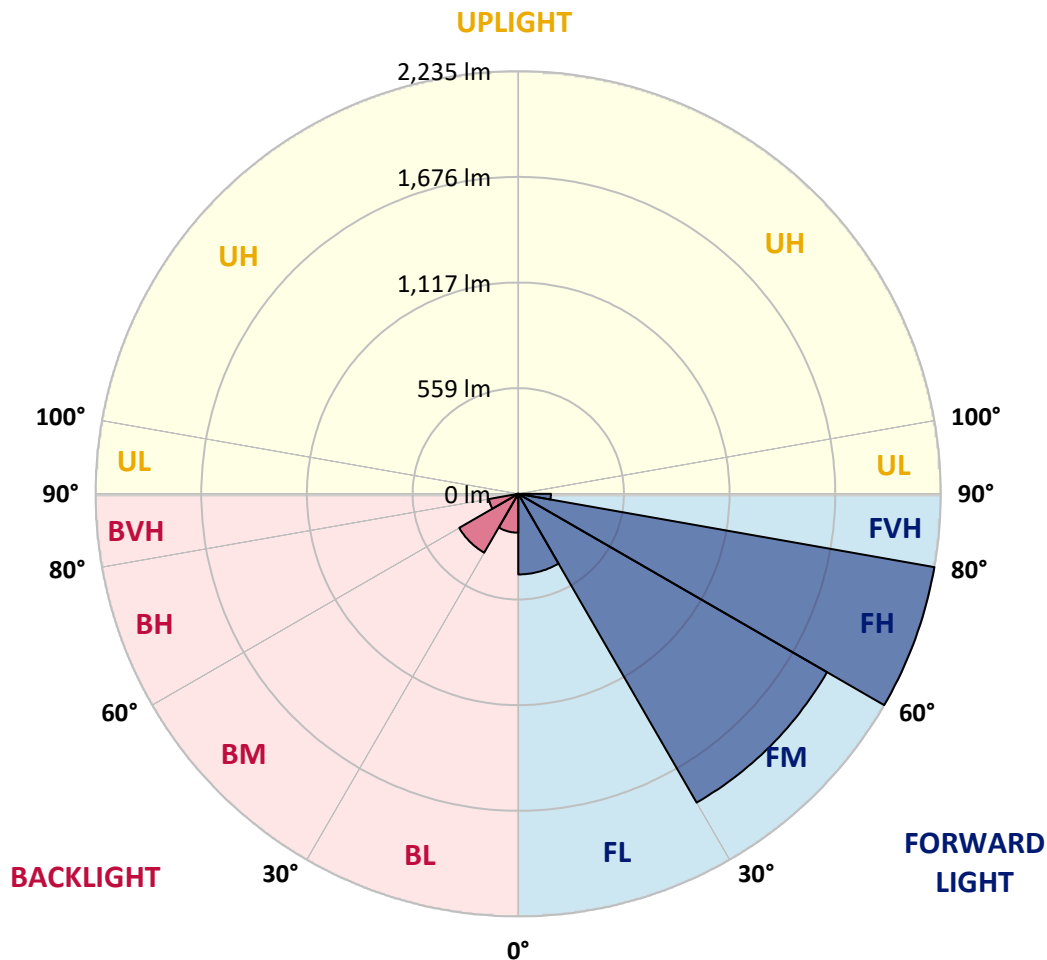
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.2	7.8			
FM (30°-60°)	1885.5	34.6			
FH (60°-80°)	2234.8	41.0			G2/5000
FVH (80°-90°)	172.7	3.2			G2/225
BL (0°-30°)	205.7	3.8	B1/500		
BM (30°-60°)	359.8	6.6	B1/1000		
BH (60°-80°)	157.5	2.9	B1/500		G1/500
BVH (80°-90°)	9.9	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8
2.5°	996.3	1001.2	998.8	995.4	993.2	991.0	988.0	979.1	972.0	964.3	952.3
5°	1003.7	1006.8	1004.6	1000.3	995.4	993.2	987.4	975.7	964.3	951.3	933.5
7.5°	999.4	1000.6	998.2	992.9	988.6	984.6	977.8	964.9	951.0	935.4	912.0
10°	984.0	988.6	988.6	984.3	980.0	977.8	971.1	958.8	946.1	928.2	900.5
12.5°	971.4	976.3	980.3	979.1	978.8	978.8	973.5	964.3	949.5	932.6	899.7
15°	962.8	968.6	977.3	982.1	985.2	986.2	984.0	976.0	960.9	941.2	903.3
17.5°	960.9	968.0	983.7	994.5	1002.5	1002.2	1001.5	990.5	973.8	953.5	908.0
20°	969.2	978.4	1000.3	1017.3	1028.9	1026.8	1023.4	1009.0	989.6	966.8	912.3
22.5°	994.2	1003.7	1027.7	1046.2	1057.6	1057.6	1047.4	1028.3	1007.7	982.1	918.1
25°	1029.9	1040.4	1065.9	1084.7	1089.9	1085.9	1075.8	1052.7	1028.9	1004.4	930.4
27.5°	1073.6	1086.3	1109.9	1125.6	1124.1	1121.0	1110.5	1081.0	1057.3	1034.8	951.3
30°	1128.1	1137.3	1162.0	1165.7	1160.1	1159.5	1144.7	1115.1	1093.0	1075.8	981.3
32.5°	1179.5	1187.8	1207.5	1209.0	1199.2	1200.4	1186.6	1159.5	1146.9	1140.7	1031.4
35°	1234.0	1238.3	1255.2	1253.4	1246.9	1246.0	1240.4	1214.6	1218.6	1229.7	1102.5
37.5°	1279.6	1288.2	1297.7	1299.3	1299.0	1302.1	1305.7	1293.4	1316.5	1351.3	1195.8
40°	1321.5	1328.8	1343.0	1347.9	1359.9	1366.1	1378.7	1379.0	1432.3	1489.6	1310.7
42.5°	1349.7	1362.4	1388.9	1397.8	1427.0	1445.5	1464.3	1484.3	1561.6	1635.1	1446.1
45°	1374.4	1391.0	1435.1	1462.7	1502.5	1525.0	1564.7	1606.6	1717.7	1814.1	1583.8
47.5°	1411.7	1426.4	1476.9	1525.9	1585.9	1611.8	1671.2	1733.7	1879.0	1984.6	1715.6
50°	1463.3	1472.3	1523.7	1603.4	1680.2	1713.4	1791.9	1882.1	2051.5	2153.0	1831.3
52.5°	1529.6	1533.3	1574.2	1680.4	1781.4	1822.7	1926.7	2032.0	2202.3	2299.3	1923.0
55°	1607.8	1601.6	1633.7	1762.0	1897.2	1951.1	2062.8	2183.8	2371.9	2417.5	1989.8
57.5°	1685.0	1675.5	1701.1	1861.2	2040.0	2105.0	2235.2	2340.2	2523.5	2528.1	2036.7
60°	1766.9	1759.9	1790.3	1977.5	2215.3	2292.2	2412.6	2502.5	2670.0	2605.0	2044.0
62.5°	1851.0	1839.6	1883.0	2108.4	2412.6	2482.5	2599.2	2674.9	2813.8	2633.6	1972.9
65°	1932.6	1927.4	1994.5	2263.9	2637.4	2716.8	2830.1	2881.5	2928.9	2590.6	1796.5
67.5°	2019.4	2029.8	2137.0	2471.4	2930.5	3030.2	3152.4	3104.1	2961.9	2386.4	1512.9
70°	2151.8	2158.6	2324.3	2743.2	3308.3	3428.6	3487.7	3183.2	2803.0	1998.8	1137.3
72.5°	2208.8	2238.6	2491.4	3028.6	3737.4	3811.0	3600.4	3006.8	2335.0	1357.8	597.6
73°	2196.2	2231.9	2499.1	3072.1	3771.0	3848.3	3576.4	2916.0	2170.6	1169.3	512.3
75°	2038.8	2082.9	2399.0	3035.8	3705.7	3659.5	3190.3	2485.2	1466.8	531.7	233.4
77.5°	1608.7	1621.4	1900.9	2451.4	2918.2	2832.5	2387.7	1553.3	599.2	197.6	132.4
80°	807.0	853.5	1071.5	1404.2	1951.4	1923.4	1507.1	734.6	249.7	116.0	87.8
82.5°	388.2	421.2	521.9	684.7	1078.2	1052.7	746.3	401.4	158.6	67.7	51.8
85°	250.0	274.6	332.2	326.7	443.3	423.4	335.3	303.9	93.9	35.4	36.0
87.5°	165.1	180.7	216.7	173.4	161.3	146.0	148.1	171.2	18.5	13.5	4.9
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°	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8	957.8
2.5°	947.4	943.4	930.1	917.2	904.8	893.2	885.5	875.3	868.5	870.4	873.1
5°	923.6	914.7	891.3	868.5	847.0	821.4	800.8	784.2	771.6	766.9	766.0
7.5°	898.7	883.6	850.1	811.0	774.3	742.6	706.0	687.8	666.6	659.2	656.7
10°	883.6	863.3	816.2	761.7	706.6	654.0	614.3	581.9	552.6	547.1	544.3
12.5°	879.3	852.5	789.1	718.9	645.7	581.0	522.2	479.7	451.3	444.9	435.3
15°	876.9	843.6	763.9	675.8	582.8	504.0	442.2	392.5	366.7	349.5	349.8
17.5°	874.7	833.4	735.6	628.7	528.6	437.8	369.5	324.8	301.1	291.9	291.0
20°	871.6	821.4	702.9	579.1	466.7	377.5	315.5	282.3	266.3	258.6	258.3
22.5°	870.4	809.7	670.9	528.6	411.9	331.0	279.8	256.4	246.3	241.1	241.1
25°	873.4	801.4	637.3	480.6	363.3	291.3	255.3	239.2	233.4	230.6	229.7
27.5°	883.0	797.7	604.1	432.6	318.7	264.2	238.6	227.5	223.2	221.0	221.4
30°	901.2	797.4	571.4	385.2	285.4	243.5	225.3	217.7	214.3	213.1	212.7
32.5°	930.4	804.2	539.4	346.1	257.4	226.3	213.1	207.5	206.0	205.1	204.8
35°	980.0	823.2	507.7	310.4	235.8	210.9	201.4	198.6	196.5	197.3	197.6
37.5°	1046.8	856.2	477.6	282.3	219.6	199.5	191.5	189.0	187.8	188.7	189.6
40°	1136.4	903.7	452.3	259.9	207.8	190.0	182.9	180.7	179.5	181.0	181.3
42.5°	1235.3	958.5	431.4	242.3	198.3	182.0	175.2	172.7	171.8	172.7	173.0
45°	1336.8	1022.2	420.5	229.7	190.3	176.1	169.0	166.2	164.1	163.5	164.4
47.5°	1436.9	1077.6	420.2	222.0	183.8	170.9	163.2	160.1	157.3	155.8	155.5
50°	1518.5	1121.6	427.7	218.6	178.3	165.1	157.3	154.3	150.6	147.4	148.1
52.5°	1580.1	1150.2	431.0	217.0	175.2	158.9	151.2	148.4	144.1	140.1	140.1
55°	1619.8	1157.0	422.7	215.5	172.7	152.4	144.1	141.6	137.3	133.3	133.3
57.5°	1633.3	1136.1	392.8	211.8	170.2	146.9	137.0	134.8	131.5	127.5	126.8
60°	1601.9	1065.3	340.5	200.8	165.4	141.0	129.3	128.4	127.2	123.8	123.5
62.5°	1480.9	915.0	283.5	186.3	157.0	134.8	122.2	123.8	124.7	122.9	122.5
65°	1279.6	742.9	242.3	166.2	146.0	126.2	114.6	118.5	121.0	121.0	120.3
67.5°	1037.9	570.5	204.1	149.0	132.1	114.6	105.9	109.0	110.9	110.2	111.7
70°	737.7	386.4	166.2	129.3	114.6	101.3	94.8	94.8	93.6	92.9	92.9
72.5°	357.8	220.7	134.8	108.1	97.6	86.5	81.3	79.2	76.7	76.3	74.9
73°	298.9	197.9	128.7	104.1	93.6	84.3	78.5	75.1	73.6	72.3	72.0
75°	182.0	150.3	107.4	87.8	79.7	72.7	67.4	64.4	62.8	61.9	61.5
77.5°	119.8	112.0	83.5	67.1	61.0	56.7	54.5	51.4	50.5	49.3	49.3
80°	89.3	85.6	59.7	47.4	43.7	40.0	39.4	38.8	36.3	34.8	34.1
82.5°	57.6	61.0	40.6	31.7	27.7	24.7	25.0	25.8	23.4	21.2	20.6
85°	41.0	44.0	24.7	14.5	11.7	10.2	11.4	10.2	10.5	8.3	6.8
87.5°	6.8	11.7	4.3	1.9	0.9	0.6	0.0	0.0	0.0	0.0	0.0
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)