

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: P522643

Luminaire Tested: **GALN-SA1D-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7297 lumens  
Efficiency: N/A  
Efficacy: 112.3 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

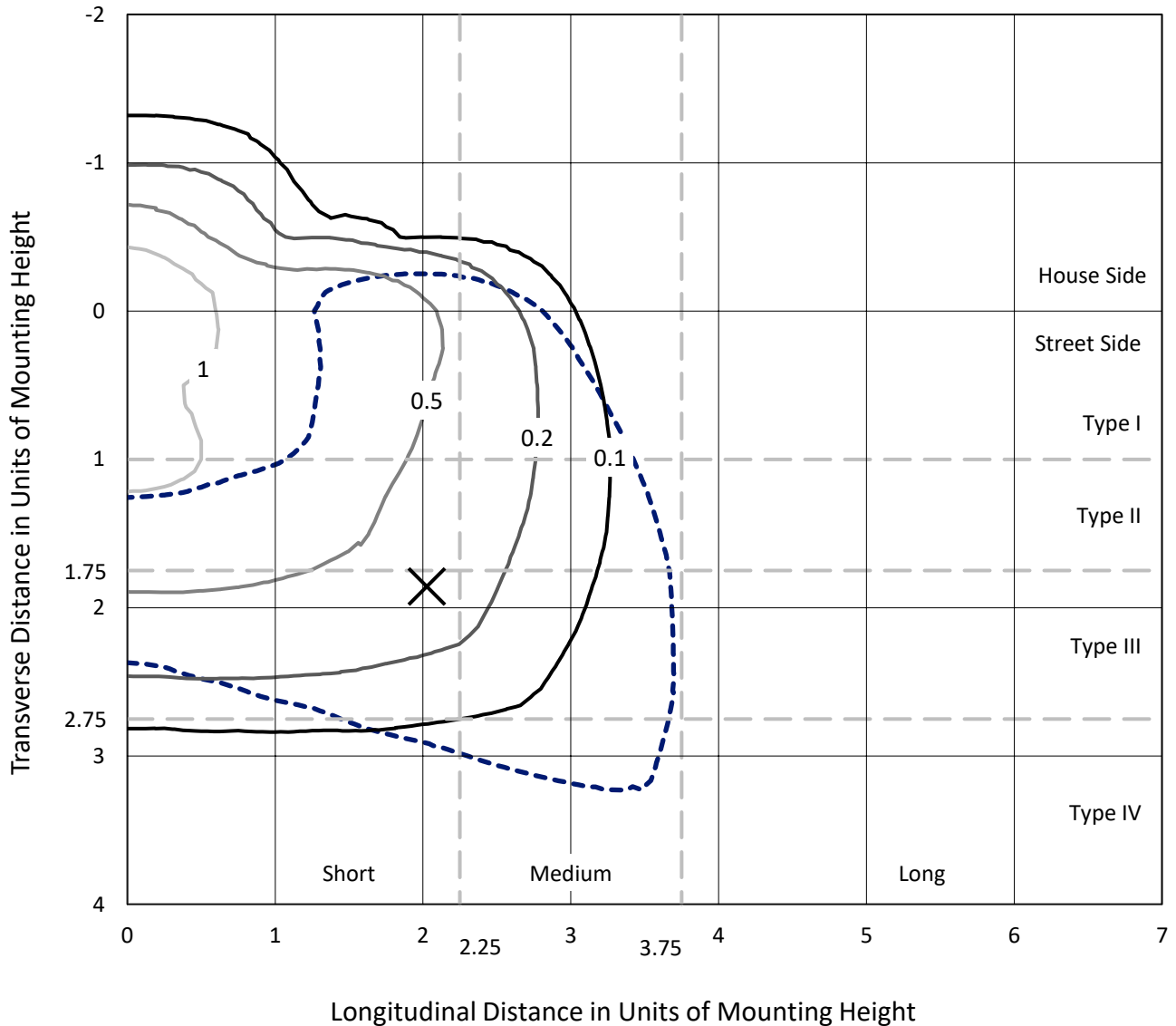
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P522643  
 CATALOG NUMBER: GALN-SA1D-735-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

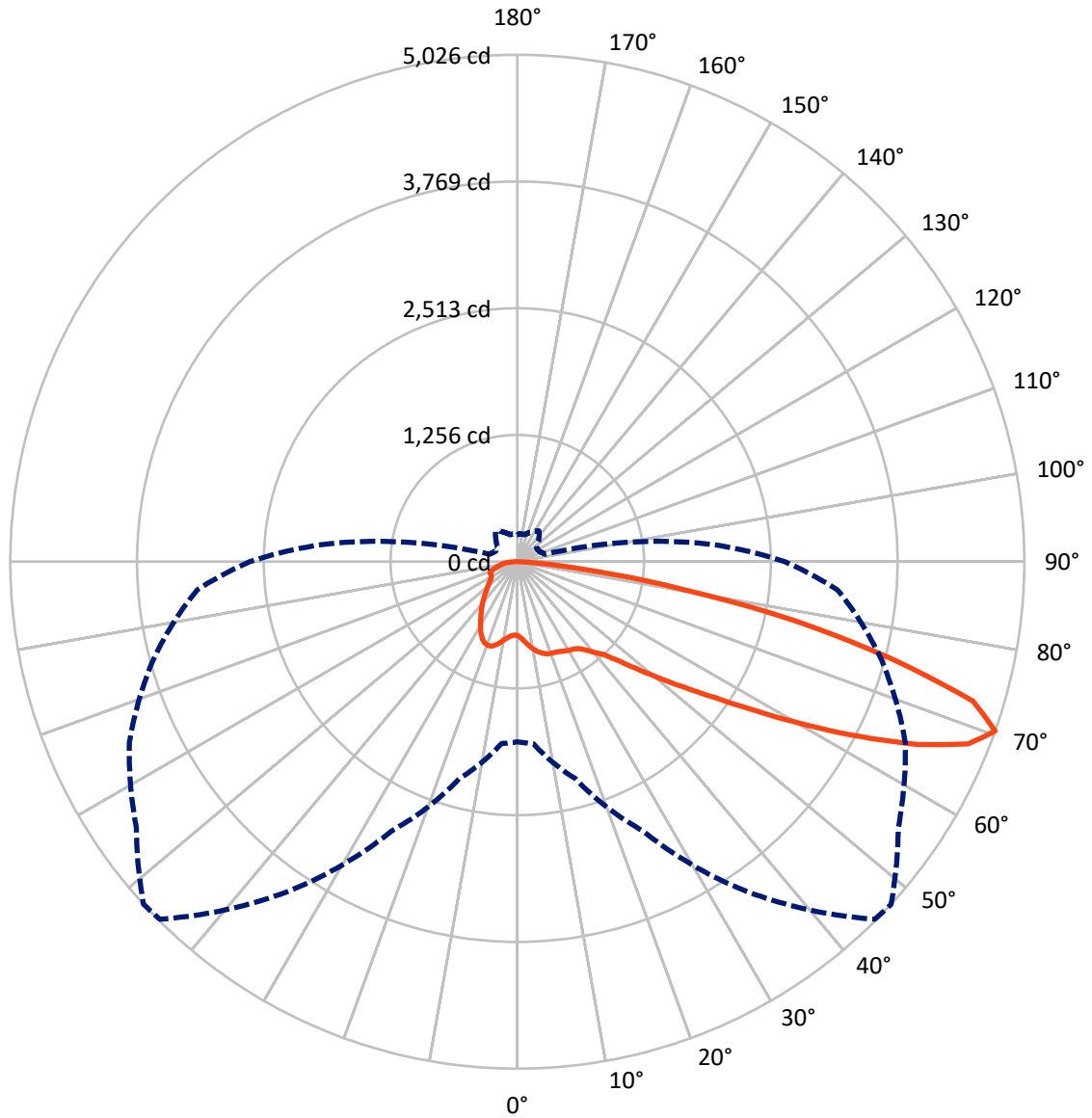
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P522643  
CATALOG NUMBER: GALN-SA1D-735-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522643

CATALOG NUMBER: GALN-SA1D-735-U-T4W

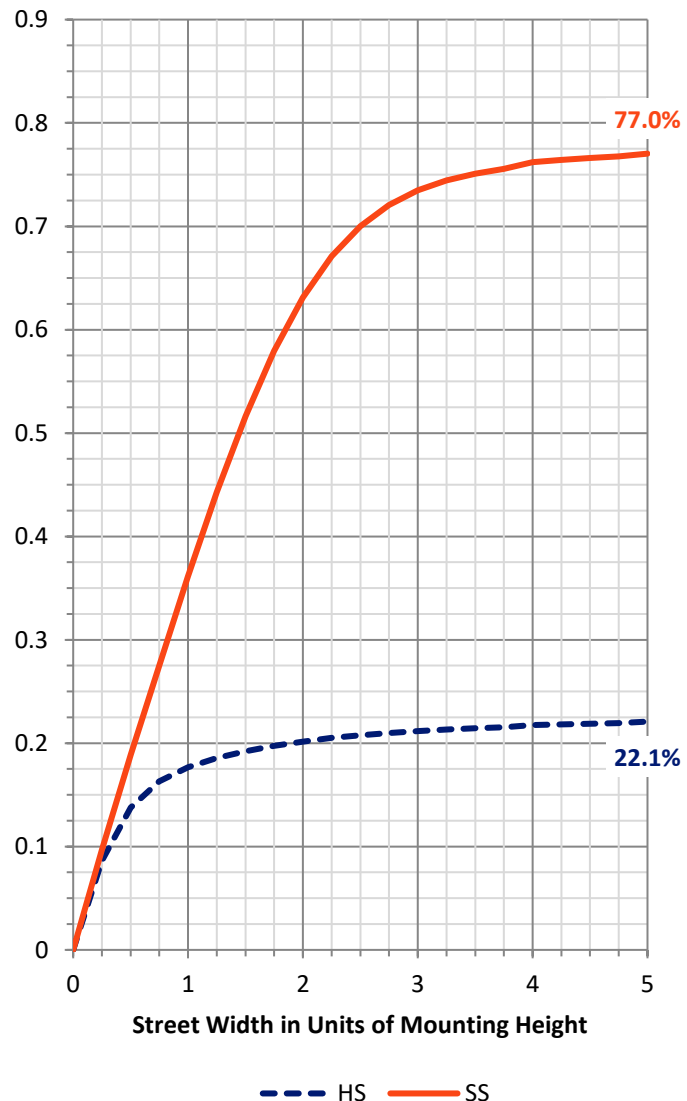
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1652.2	0.0	1652.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5644.8	0.0	5644.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	7297.0	0.0	7297.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.0
10°-20°	252.4	3.5
20°-30°	419.8	5.8
30°-40°	595.0	8.2
40°-50°	878.3	12.0
50°-60°	1521.3	20.8
60°-70°	2148.9	29.4
70°-80°	1235.3	16.9
80°-90°	170.4	2.3
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°	7297.0	100.0
0°-180°	7297.0	100.0



REPORT NUMBER: P522643

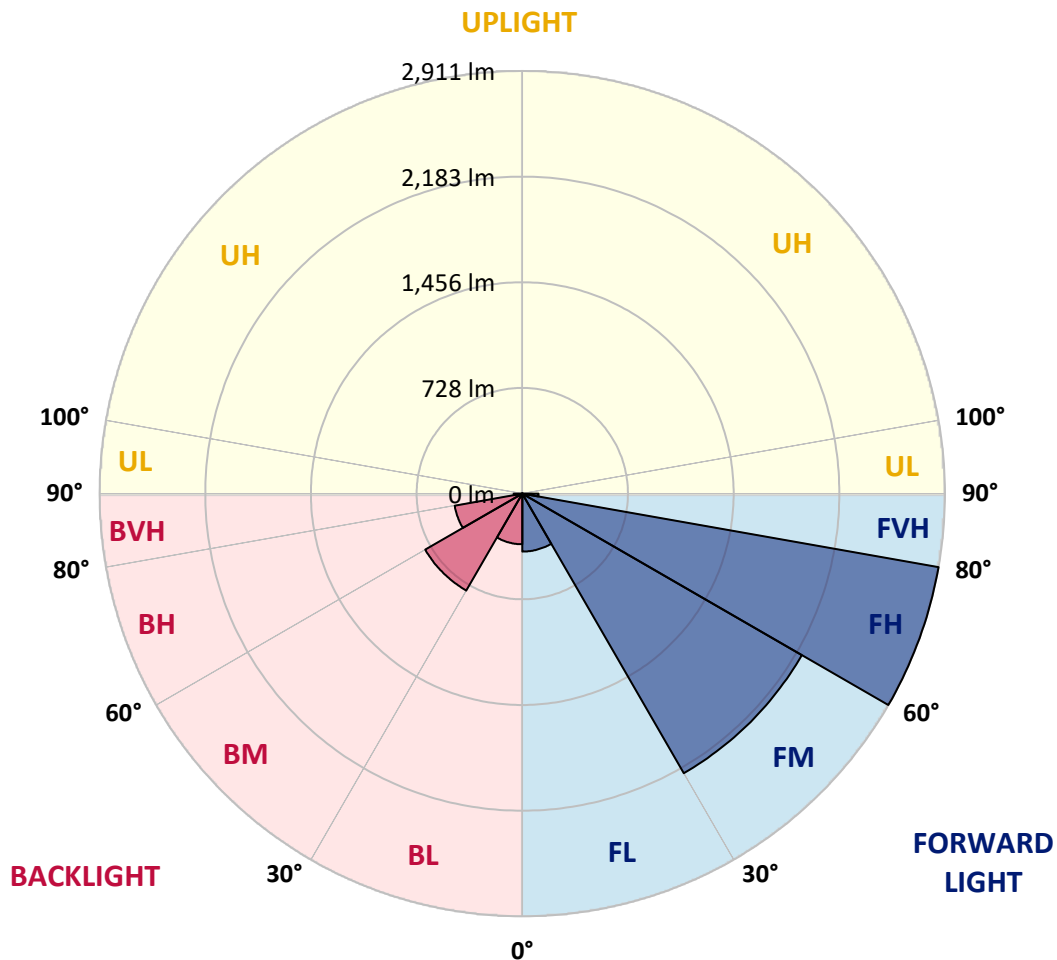
CATALOG NUMBER: GALN-SA1D-735-U-T4W

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.0	5.5			
FM	(30°-60°)	2223.3	30.5			
FH	(60°-80°)	2911.2	39.9			G2/5000
FVH	(80°-90°)	111.3	1.5			G2/225
BL	(0°-30°)	348.7	4.8	B1/500		
BM	(30°-60°)	771.4	10.6	B1/1000		
BH	(60°-80°)	473.0	6.5	B1/500		G1/500
BVH	(80°-90°)	59.1	0.8			G1/100
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





REPORT NUMBER: P522643  
 CATALOG NUMBER: GALN-SA1D-735-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5
2.5°	779.8	777.0	776.7	770.8	767.7	761.8	759.5	754.0	747.4	740.7	734.5
5°	841.1	841.1	838.3	830.1	817.3	804.0	798.1	787.6	768.8	753.6	740.7
7.5°	903.9	904.7	899.3	887.2	868.8	847.3	841.9	826.2	799.7	777.4	758.3
10°	958.2	958.2	950.8	934.4	911.4	887.9	882.5	864.9	835.2	807.5	782.5
12.5°	999.6	999.6	989.9	968.4	943.4	922.3	916.1	899.3	871.5	840.7	809.1
15°	1026.6	1024.6	1013.7	989.5	965.3	946.9	942.6	928.5	903.2	871.9	836.4
17.5°	1027.7	1026.9	1016.4	996.1	975.0	962.5	959.8	950.4	930.5	900.8	863.3
20°	1005.1	1006.6	999.6	985.2	975.0	969.5	968.4	965.3	951.2	923.5	886.0
22.5°	980.9	983.6	977.0	969.2	968.4	973.8	974.6	975.4	966.4	939.5	905.1
25°	975.0	977.0	970.3	963.3	967.6	982.0	985.2	988.3	981.3	958.6	927.8
27.5°	1004.7	1003.1	990.2	975.0	977.7	997.3	1001.6	1005.1	1001.6	982.0	955.9
30°	1088.6	1083.6	1057.8	1013.3	999.2	1012.9	1017.2	1026.9	1026.9	1012.5	986.3
32.5°	1229.2	1219.5	1172.2	1084.7	1035.9	1027.7	1032.0	1048.0	1056.2	1044.9	1016.4
35°	1399.9	1389.7	1322.1	1204.6	1103.1	1057.4	1056.2	1074.2	1096.1	1070.7	1033.6
37.5°	1571.3	1560.7	1479.5	1347.5	1201.1	1119.9	1112.9	1119.1	1128.5	1082.0	1057.4
40°	1742.7	1730.2	1659.1	1507.2	1321.0	1202.7	1184.3	1156.2	1152.3	1119.1	1103.5
42.5°	1912.5	1901.2	1865.3	1686.5	1464.7	1283.5	1255.4	1207.0	1221.8	1201.9	1188.2
45°	2084.0	2084.7	2046.5	1887.6	1638.0	1432.7	1394.8	1319.0	1354.2	1346.7	1354.6
47.5°	2235.9	2233.9	2220.2	2082.8	1853.2	1624.8	1576.0	1488.1	1548.2	1575.6	1635.3
50°	2383.1	2381.9	2382.7	2304.2	2103.1	1853.2	1799.3	1707.2	1842.7	1937.5	2044.5
52.5°	2593.9	2600.6	2553.3	2532.6	2406.9	2123.0	2063.7	1968.4	2190.6	2340.1	2549.0
55°	2805.6	2800.1	2763.0	2784.5	2724.7	2442.4	2380.3	2304.6	2577.9	2741.5	3055.5
57.5°	2930.1	2932.1	2970.0	3075.0	3117.2	2840.7	2784.5	2725.9	3013.3	3129.3	3506.1
60°	3042.2	3051.2	3160.1	3358.5	3472.9	3330.0	3280.0	3223.0	3412.8	3458.8	3897.3
62.5°	3077.3	3105.1	3295.2	3592.0	3819.6	3882.1	3820.0	3694.3	3793.1	3775.1	4162.5
65°	2902.0	2939.9	3280.8	3679.4	4129.3	4406.1	4366.7	4133.2	4117.2	4009.0	4205.8
67.5°	2440.5	2478.3	2916.1	3495.9	4257.3	4859.9	4820.4	4453.4	4314.0	4030.9	3877.8
70°	1785.6	1809.5	2228.1	2943.4	4000.0	5012.1	5025.8	4609.6	4243.7	3733.7	3183.9
72.5°	1028.9	1081.6	1374.9	2070.7	3267.9	4627.1	4722.0	4284.7	3799.3	3114.8	2226.1
75°	442.4	443.6	635.7	1142.1	2213.2	3719.3	3811.0	3551.8	2983.6	2153.9	1188.6
77.5°	210.5	214.4	279.6	510.0	1218.3	2569.7	2817.3	2509.2	1908.3	1034.8	449.0
80°	136.7	139.4	171.0	253.0	597.4	1490.1	1662.6	1447.5	841.9	369.8	193.7
82.5°	82.8	83.6	114.4	154.6	328.8	674.7	795.4	628.3	359.2	221.4	114.0
85°	50.4	50.8	69.5	95.7	199.5	233.1	239.4	237.4	210.9	144.9	60.9
87.5°	24.2	25.0	35.9	45.3	78.5	72.2	68.3	79.3	99.6	78.1	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522643  
 CATALOG NUMBER: GALN-SA1D-735-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5
2.5°	731.8	730.6	727.8	726.7	725.9	726.3	725.9	725.9	726.3	726.3	726.3
5°	735.3	733.3	729.0	729.0	731.4	736.8	741.9	745.8	750.1	749.7	749.7
7.5°	750.5	747.0	741.9	743.5	749.3	757.9	766.9	775.5	784.1	784.9	784.5
10°	772.7	769.2	763.8	765.7	775.1	788.0	799.3	811.8	821.2	823.9	823.1
12.5°	798.1	791.1	786.4	791.9	806.7	823.9	834.8	844.2	850.8	854.7	853.2
15°	823.9	817.3	811.8	823.1	841.1	857.1	862.6	864.1	865.3	869.2	868.4
17.5°	848.9	839.9	838.0	852.8	870.0	877.0	873.9	867.2	862.2	865.3	864.9
20°	871.1	864.1	863.3	878.2	884.8	878.2	864.9	853.2	844.2	845.0	844.6
22.5°	892.2	886.8	887.5	893.8	883.3	860.6	838.7	822.7	813.0	814.9	816.1
25°	915.7	910.2	912.1	902.0	867.2	827.8	796.2	782.5	778.6	782.5	785.2
27.5°	946.1	942.6	941.4	902.4	838.7	779.4	743.5	738.4	741.9	750.5	754.8
30°	978.9	978.9	972.7	895.7	799.7	721.2	690.0	690.8	702.9	715.0	719.3
32.5°	1010.5	1017.2	997.7	877.8	749.3	664.6	640.8	641.6	652.1	666.9	670.8
35°	1036.7	1055.8	1019.1	845.0	690.0	617.0	599.0	588.4	588.8	600.2	603.3
37.5°	1072.6	1108.2	1031.6	796.2	626.7	576.3	556.0	537.7	525.6	520.9	520.9
40°	1135.1	1187.4	1034.8	723.9	567.0	537.7	508.8	486.9	463.5	442.4	438.5
42.5°	1240.9	1306.9	1028.5	640.8	513.1	495.1	467.0	440.1	407.7	378.0	375.6
45°	1428.4	1462.3	1011.7	554.5	465.1	454.1	426.8	397.5	363.1	336.6	334.6
47.5°	1728.6	1680.6	989.5	477.9	421.3	418.2	397.1	363.1	328.8	310.4	308.5
50°	2167.1	2024.2	986.3	422.5	386.2	387.7	370.6	339.3	309.3	294.0	291.7
52.5°	2695.1	2439.3	1007.0	383.4	355.3	361.2	352.6	323.7	297.2	284.3	281.9
55°	3207.4	2812.6	1019.5	353.0	326.4	337.4	338.5	314.3	290.1	277.2	275.7
57.5°	3623.2	3093.7	964.1	325.3	301.4	318.2	326.8	308.9	286.6	276.8	275.3
60°	3912.6	3226.5	806.3	300.7	283.1	303.0	322.5	309.3	295.2	296.4	297.2
62.5°	4004.7	3167.5	604.8	282.3	270.6	297.9	329.6	325.3	310.8	319.8	321.4
65°	3852.0	2923.9	438.5	267.9	259.7	301.4	350.6	337.0	305.4	312.0	312.0
67.5°	3340.9	2519.0	341.3	254.6	247.2	308.1	371.7	335.8	292.5	300.3	293.2
70°	2650.2	1948.5	284.3	239.8	233.9	298.3	373.7	323.7	277.2	278.8	265.5
72.5°	1758.7	1281.1	244.4	225.7	213.6	268.3	357.7	308.1	262.4	253.4	240.1
75°	861.8	638.8	213.2	208.1	187.0	233.5	335.8	293.2	246.4	232.3	224.9
77.5°	333.9	271.8	182.0	185.9	162.8	205.8	306.9	272.2	225.3	206.2	200.3
80°	162.0	154.2	149.2	155.0	133.9	175.3	280.4	253.8	205.8	184.7	176.1
82.5°	100.7	95.3	114.4	120.7	103.1	160.1	265.9	238.2	181.2	153.1	146.0
85°	51.2	54.7	76.5	82.4	73.8	127.3	219.1	178.8	130.8	108.6	109.3
87.5°	19.5	26.2	40.2	43.3	39.4	67.2	120.7	104.3	84.0	57.0	52.7
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)