

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: P651762

Luminaire Tested: **GALN-SA2A-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651762  
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-SA2A-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7739.7 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

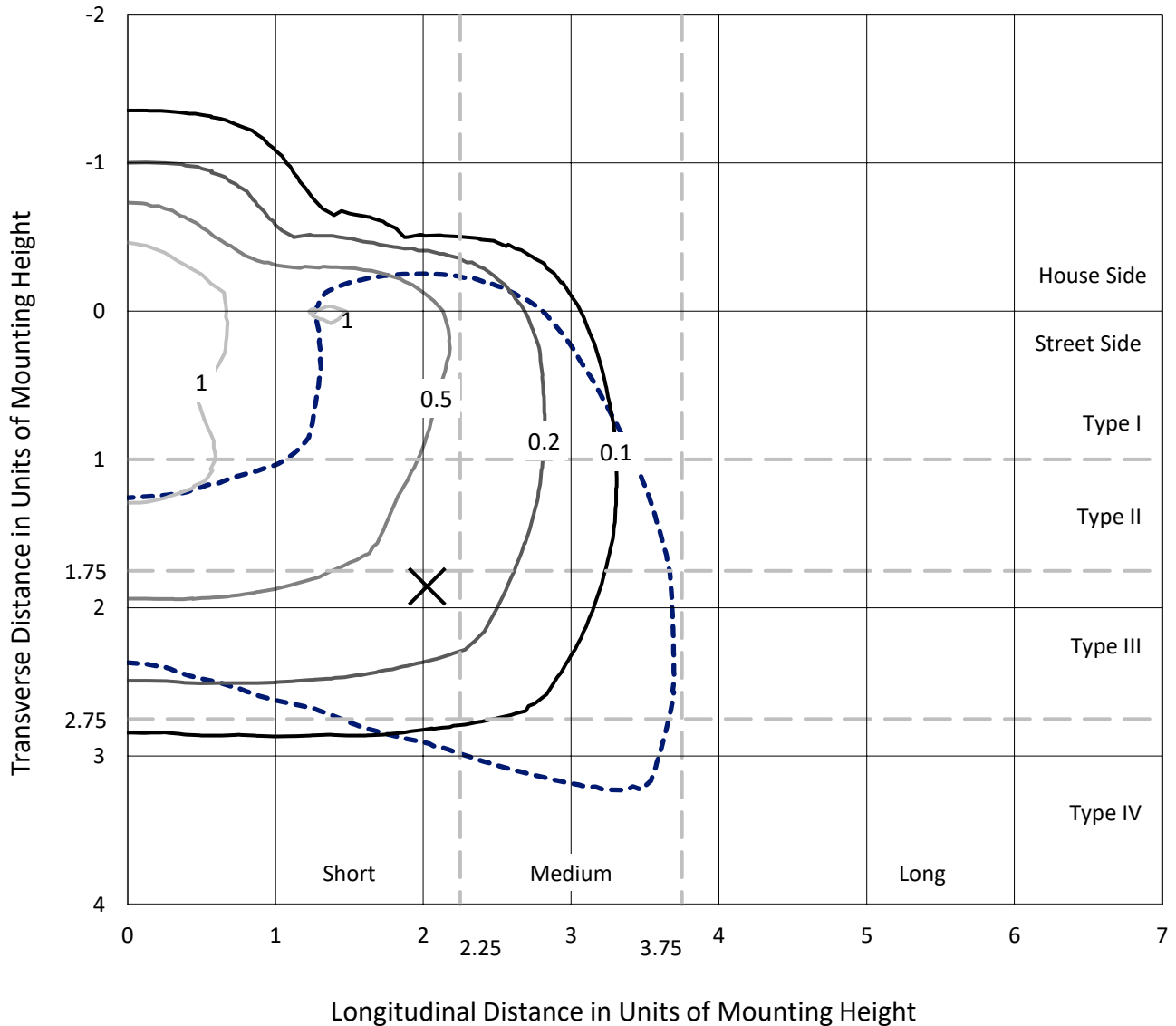
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

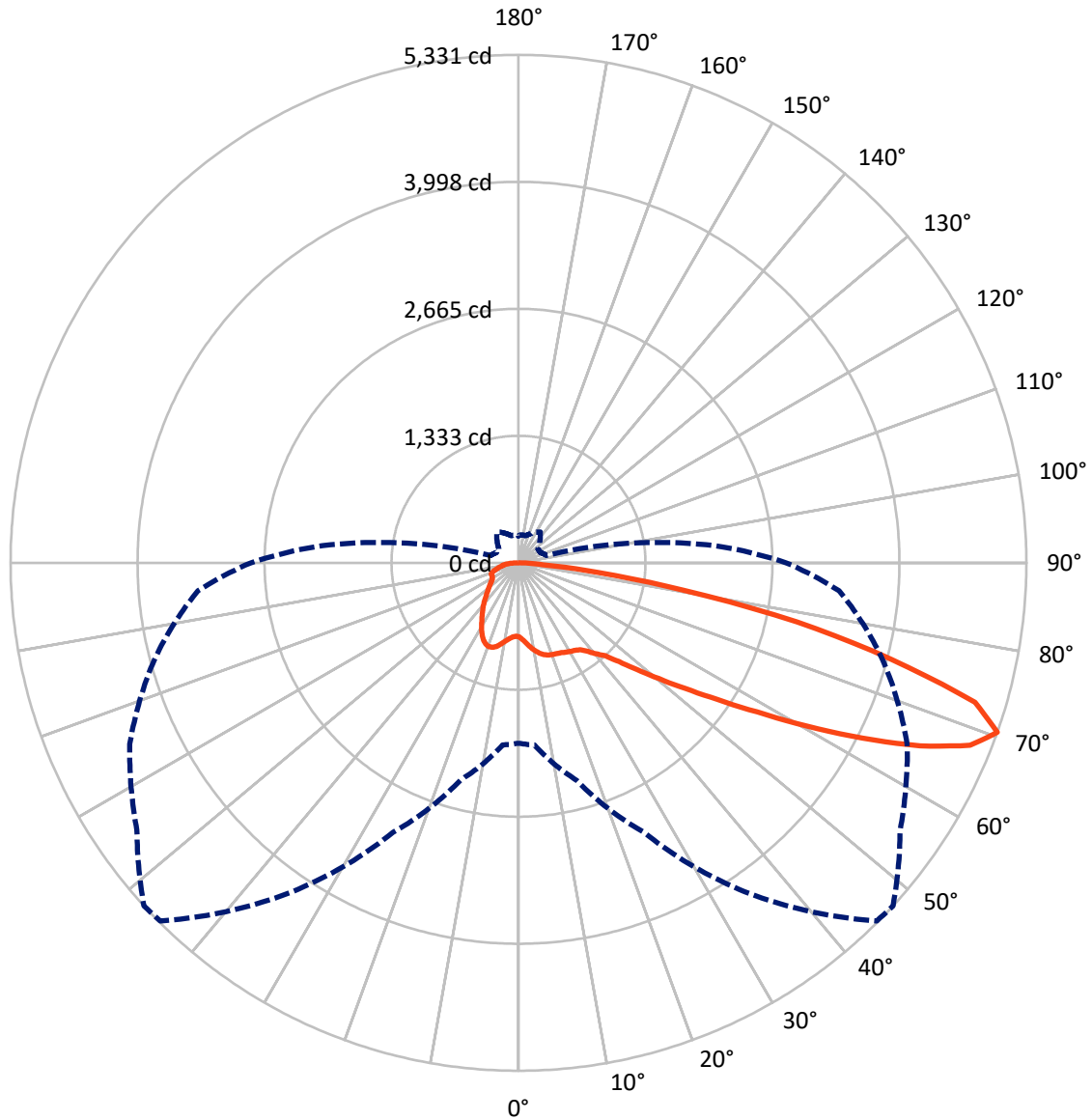
× Max cd  
 - - - 1/2 Max cd



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

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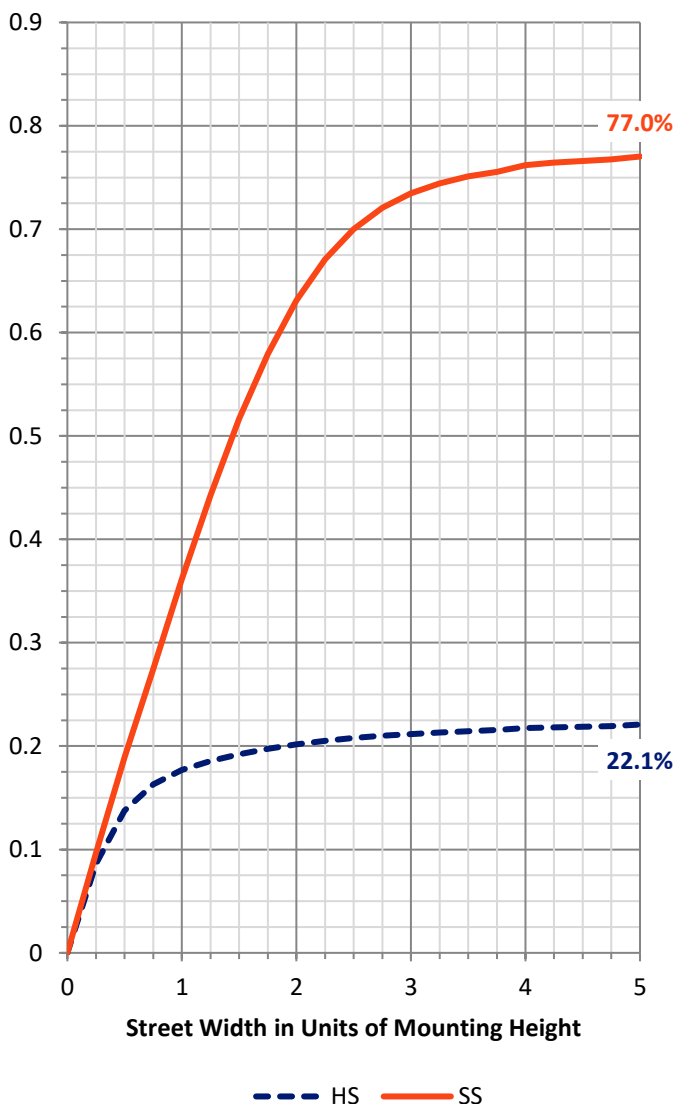
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1752.4	0.0	1752.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	5987.3	0.0	5987.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	7739.7	0.0	7739.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	1.0
10°-20°	267.7	3.5
20°-30°	445.3	5.8
30°-40°	631.1	8.2
40°-50°	931.6	12.0
50°-60°	1613.6	20.8
60°-70°	2279.3	29.4
70°-80°	1310.3	16.9
80°-90°	180.8	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°	7739.7	100.0
0°-180°	7739.7	100.0

**Coefficient of Utilization**



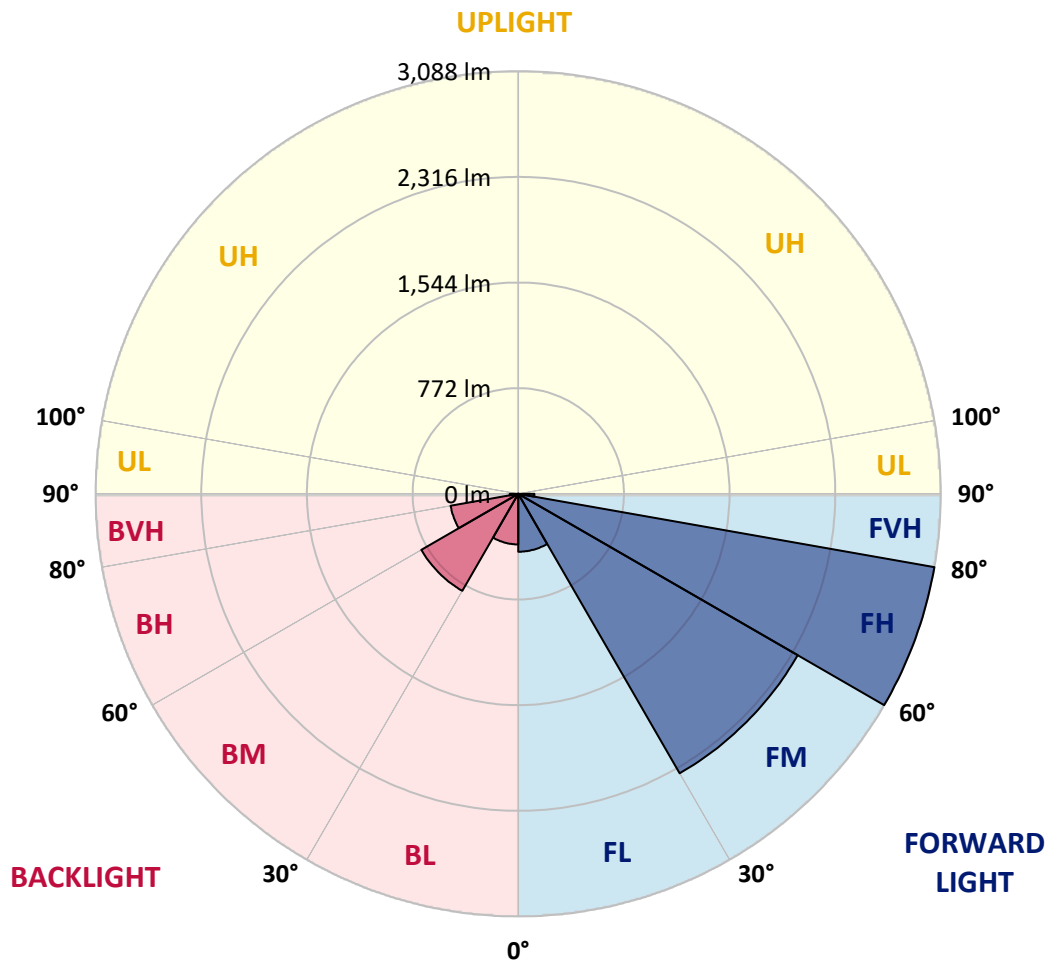
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.2	5.5			
FM (30°-60°)	2358.1	30.5			
FH (60°-80°)	3087.8	39.9			G2/5000
FVH (80°-90°)	118.1	1.5			G2/225
BL (0°-30°)	369.9	4.8	B1/500		
BM (30°-60°)	818.2	10.6	B1/1000		
BH (60°-80°)	501.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	62.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0
2.5°	827.1	824.2	823.8	817.5	814.3	808.0	805.6	799.8	792.7	785.7	779.0
5°	892.1	892.1	889.2	880.5	866.8	852.8	846.6	835.4	815.5	799.4	785.7
7.5°	958.8	959.6	953.9	941.0	921.5	898.8	893.0	876.4	848.2	824.6	804.3
10°	1016.3	1016.3	1008.5	991.1	966.6	941.8	936.0	917.4	885.9	856.5	830.0
12.5°	1060.2	1060.2	1049.9	1027.1	1000.6	978.3	971.6	953.9	924.4	891.7	858.2
15°	1088.8	1086.7	1075.1	1049.5	1023.8	1004.3	999.8	984.9	958.0	924.8	887.2
17.5°	1090.1	1089.3	1078.1	1056.5	1034.2	1020.9	1018.0	1008.1	987.0	955.5	915.7
20°	1066.1	1067.7	1060.2	1044.9	1034.2	1028.4	1027.1	1023.8	1008.9	979.5	939.7
22.5°	1040.4	1043.3	1036.3	1028.0	1027.1	1032.9	1033.8	1034.6	1025.1	996.5	960.0
25°	1034.2	1036.3	1029.2	1021.7	1026.3	1041.7	1044.9	1048.2	1040.8	1016.8	984.1
27.5°	1065.6	1064.0	1050.3	1034.2	1037.0	1057.8	1062.4	1066.1	1062.4	1041.7	1013.9
30°	1154.7	1149.3	1122.0	1074.8	1059.8	1074.4	1078.9	1089.3	1089.3	1074.0	1046.2
32.5°	1303.8	1293.5	1243.3	1150.6	1098.8	1090.1	1094.6	1111.6	1120.3	1108.3	1078.1
35°	1484.8	1474.0	1402.4	1277.7	1170.0	1121.6	1120.3	1139.4	1162.6	1135.6	1096.3
37.5°	1666.6	1655.4	1569.3	1429.3	1273.9	1187.8	1180.3	1187.0	1196.9	1147.6	1121.6
40°	1848.4	1835.1	1759.8	1598.7	1401.1	1275.6	1256.2	1226.3	1222.2	1187.0	1170.4
42.5°	2028.6	2016.5	1978.5	1788.8	1553.5	1361.3	1331.6	1280.2	1295.9	1274.8	1260.3
45°	2210.4	2211.2	2170.6	2002.1	1737.4	1519.6	1479.4	1399.1	1436.3	1428.4	1436.8
47.5°	2371.5	2369.4	2355.0	2209.1	1965.7	1723.4	1671.6	1578.4	1642.1	1671.2	1734.6
50°	2527.6	2526.4	2527.2	2444.0	2230.7	1965.7	1908.5	1810.8	1954.5	2055.1	2168.6
52.5°	2751.3	2758.3	2708.2	2686.2	2552.9	2251.8	2188.9	2087.8	2323.4	2482.1	2703.6
55°	2975.8	2970.0	2930.6	2953.4	2890.0	2590.6	2524.8	2444.4	2734.3	2907.8	3240.9
57.5°	3107.9	3109.9	3150.1	3261.6	3306.3	3013.1	2953.4	2891.3	3196.1	3319.1	3718.8
60°	3226.7	3236.3	3351.8	3562.2	3683.6	3532.0	3479.0	3418.5	3619.8	3668.7	4133.8
62.5°	3264.0	3293.4	3495.1	3809.9	4051.3	4117.6	4051.8	3918.4	4023.2	4004.2	4415.0
65°	3078.1	3118.3	3479.8	3902.7	4379.8	4673.4	4631.6	4384.0	4367.0	4252.3	4461.0
67.5°	2588.5	2628.7	3093.0	3708.1	4515.7	5154.7	5112.9	4723.6	4575.7	4275.4	4113.1
70°	1894.0	1919.2	2363.2	3122.0	4242.7	5316.2	5330.8	4889.2	4501.1	3960.3	3377.1
72.5°	1091.4	1147.2	1458.3	2196.4	3466.2	4907.8	5008.5	4544.7	4029.8	3303.8	2361.2
75°	469.3	470.5	674.2	1211.5	2347.5	3945.0	4042.3	3767.3	3164.7	2284.6	1260.7
77.5°	223.2	227.4	296.5	540.9	1292.2	2725.6	2988.2	2661.4	2024.0	1097.5	476.3
80°	145.0	147.8	181.4	268.4	633.7	1580.5	1763.5	1535.3	893.0	392.2	205.5
82.5°	87.8	88.6	121.4	164.0	348.8	715.7	843.7	666.4	381.1	234.8	120.9
85°	53.4	53.8	73.8	101.5	211.7	247.3	253.9	251.8	223.6	153.7	64.6
87.5°	25.7	26.5	38.1	48.0	83.3	76.6	72.5	84.1	105.6	82.8	27.8
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°	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0	777.0
2.5°	776.2	774.9	772.0	770.8	769.9	770.4	769.9	769.9	770.4	770.4	770.4
5°	779.9	777.8	773.2	773.2	775.7	781.5	786.9	791.0	795.6	795.2	795.2
7.5°	796.0	792.3	786.9	788.6	794.7	803.9	813.4	822.5	831.7	832.5	832.1
10°	819.6	815.9	810.1	812.2	822.1	835.8	847.8	861.0	871.0	873.9	873.0
12.5°	846.6	839.1	834.1	839.9	855.6	873.9	885.5	895.4	902.5	906.6	904.9
15°	873.9	866.8	861.0	873.0	892.1	909.1	914.9	916.5	917.8	921.9	921.1
17.5°	900.4	890.9	888.8	904.6	922.7	930.2	926.9	919.9	914.5	917.8	917.4
20°	924.0	916.5	915.7	931.5	938.5	931.5	917.4	904.9	895.4	896.3	895.8
22.5°	946.4	940.6	941.4	948.1	936.9	912.8	889.6	872.6	862.3	864.4	865.6
25°	971.2	965.4	967.5	956.7	919.9	878.0	844.4	830.0	825.9	830.0	832.9
27.5°	1003.6	999.8	998.5	957.1	889.6	826.7	788.6	783.2	786.9	796.0	800.5
30°	1038.3	1038.3	1031.7	950.1	848.2	765.0	731.8	732.7	745.5	758.3	762.9
32.5°	1071.9	1078.9	1058.2	931.1	794.7	704.9	679.6	680.5	691.6	707.4	711.6
35°	1099.6	1119.9	1080.9	896.3	731.8	654.4	635.3	624.1	624.5	636.6	639.9
37.5°	1137.7	1175.4	1094.2	844.4	664.7	611.3	589.8	570.3	557.5	552.5	552.5
40°	1204.0	1259.5	1097.5	767.8	601.4	570.3	539.7	516.5	491.6	469.3	465.1
42.5°	1316.2	1386.2	1090.9	679.6	544.2	525.1	495.3	466.8	432.4	400.9	398.5
45°	1515.0	1551.1	1073.1	588.1	493.2	481.6	452.7	421.6	385.2	357.0	354.9
47.5°	1833.5	1782.6	1049.5	507.0	446.9	443.5	421.2	385.2	348.8	329.3	327.1
50°	2298.6	2147.1	1046.2	448.2	409.7	411.2	393.1	359.9	328.0	311.8	309.4
52.5°	2858.6	2587.3	1068.2	406.7	376.9	383.1	374.0	343.4	315.2	301.5	299.1
55°	3401.9	2983.2	1081.4	374.4	346.2	357.8	359.1	333.4	307.7	294.1	292.4
57.5°	3843.0	3281.4	1022.6	345.0	319.7	337.6	346.7	327.6	304.0	293.7	292.0
60°	4149.9	3422.3	855.2	318.9	300.2	321.4	342.1	328.0	313.1	314.4	315.2
62.5°	4247.7	3359.7	641.5	299.5	287.0	316.0	349.5	345.0	329.7	339.2	340.9
65°	4085.7	3101.3	465.1	284.1	275.4	319.7	371.9	357.4	323.9	330.9	330.9
67.5°	3543.6	2671.8	362.0	270.0	262.1	326.8	394.3	356.2	310.2	318.5	311.0
70°	2811.0	2066.7	301.5	254.3	248.1	316.4	396.4	343.4	294.1	295.7	281.7
72.5°	1865.4	1358.9	259.3	239.3	226.6	284.5	379.4	326.8	278.3	268.8	254.7
75°	914.1	677.6	226.1	220.8	198.4	247.7	356.2	311.0	261.3	246.4	238.6
77.5°	354.1	288.3	193.0	197.1	172.7	218.2	325.6	288.7	239.0	218.7	212.4
80°	171.9	163.6	158.2	164.4	142.0	185.9	297.4	269.2	218.2	195.9	186.8
82.5°	106.9	101.1	121.4	128.0	109.3	169.8	282.1	252.6	192.2	162.3	154.9
85°	54.2	57.9	81.2	87.4	78.3	135.0	232.4	189.7	138.8	115.1	116.0
87.5°	20.7	27.8	42.6	46.0	41.8	71.2	128.0	110.6	89.1	60.5	55.9
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)