

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: P652200

Luminaire Tested: **GALN-SA1B-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4831.5 lumens  
Efficiency: N/A  
Efficacy: 109.8 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

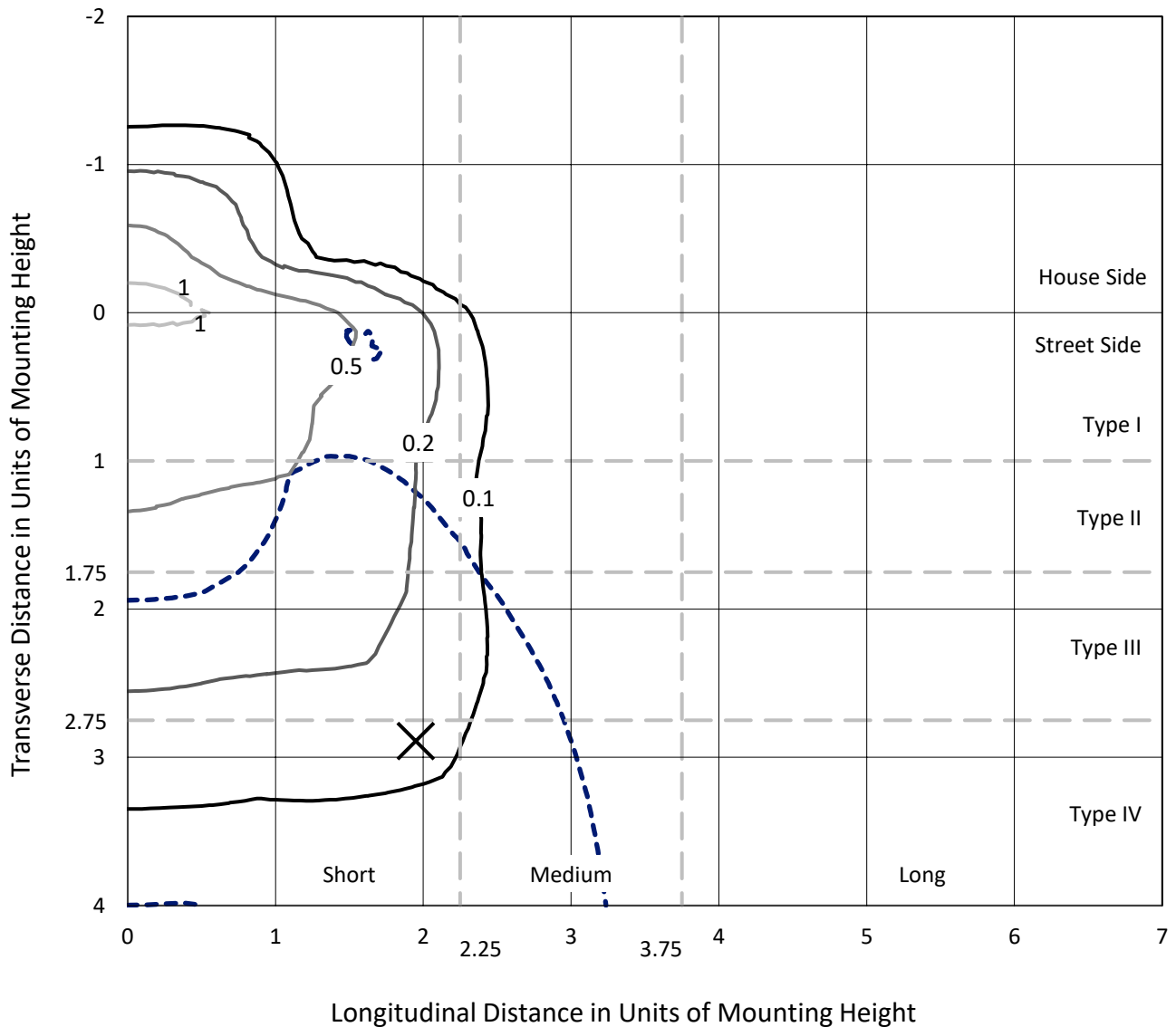
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

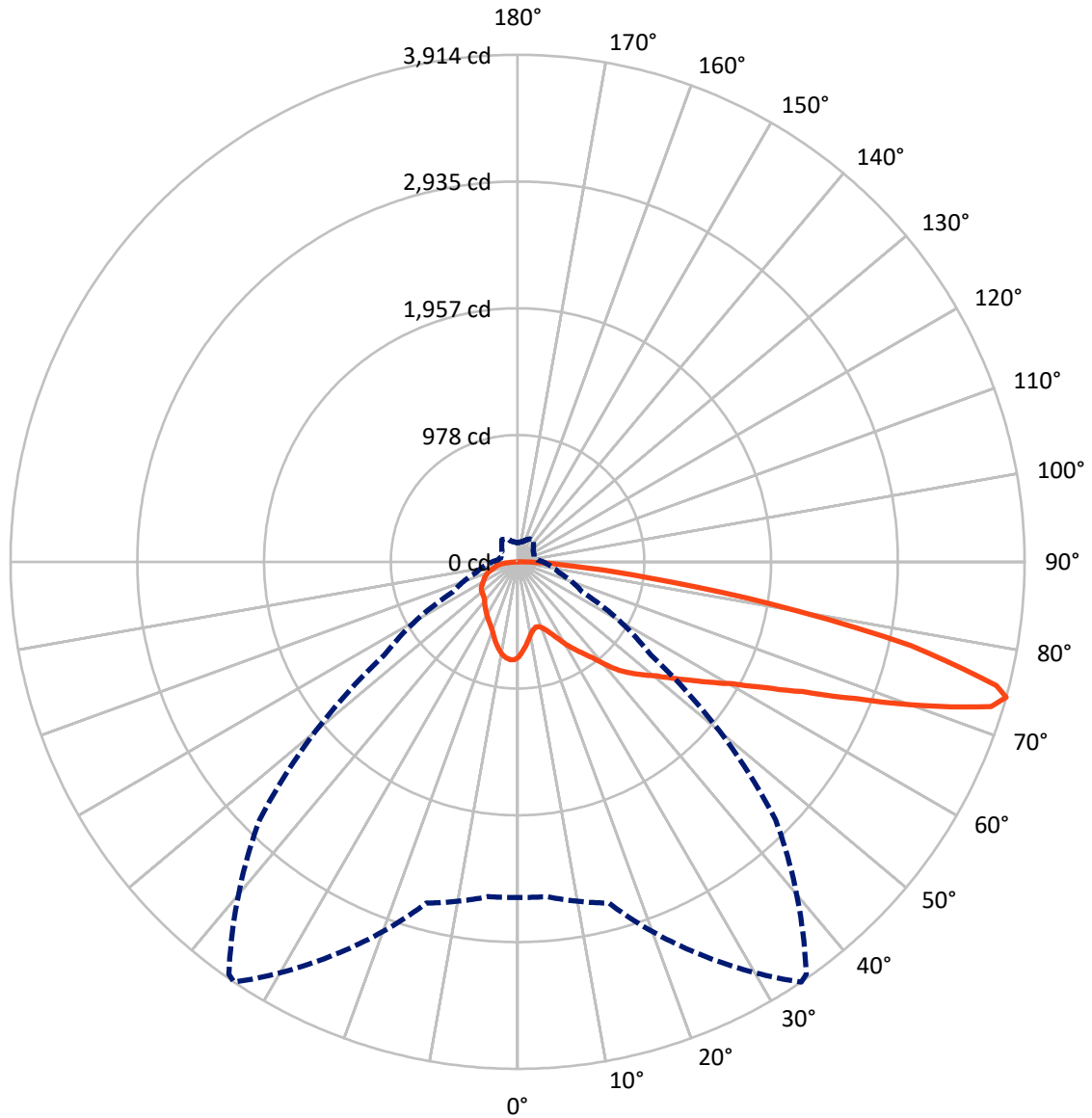
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical



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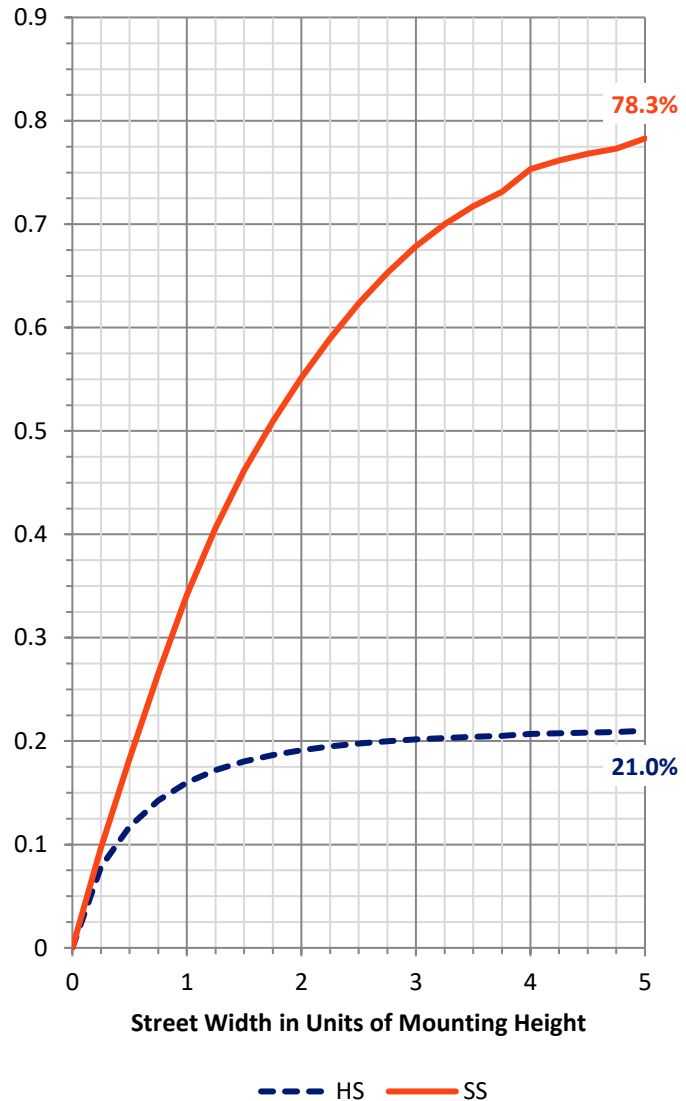
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1028.2	0.0	1028.2
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	3803.4	0.0	3803.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	4831.5	0.0	4831.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.1	1.4
10°-20°	183.7	3.8
20°-30°	302.8	6.3
30°-40°	453.5	9.4
40°-50°	659.3	13.6
50°-60°	920.9	19.1
60°-70°	1153.0	23.9
70°-80°	953.4	19.7
80°-90°	137.8	2.9
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°	4831.5	100.0
0°-180°	4831.5	100.0

**Coefficient of Utilization**

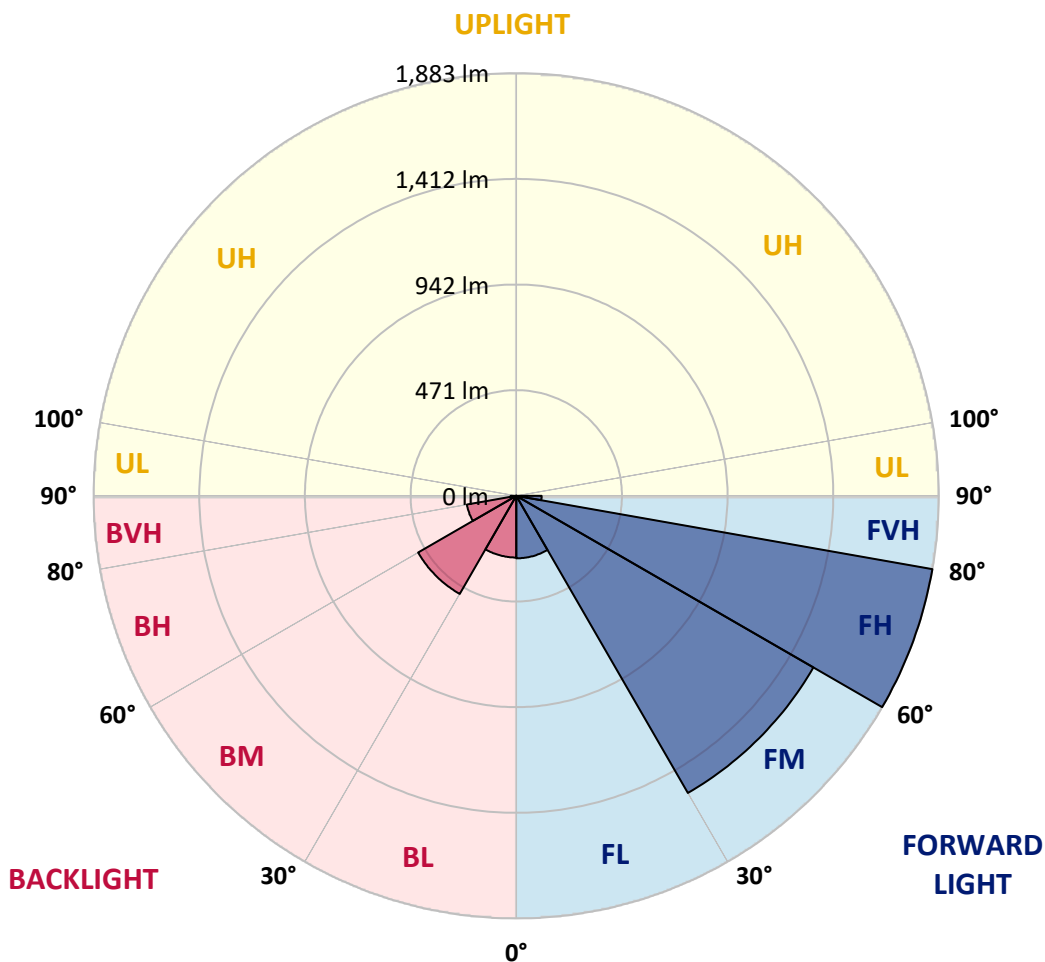


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.5	5.8			
FM (30°-60°)	1528.9	31.6			
FH (60°-80°)	1883.1	39.0			G2/5000
FVH (80°-90°)	112.9	2.3			G2/225
BL (0°-30°)	275.0	5.7	B1/500		
BM (30°-60°)	504.9	10.5	B1/1000		
BH (60°-80°)	223.3	4.6	B1/500		G1/500
BVH (80°-90°)	24.9	0.5			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6
2.5°	681.7	685.2	687.1	693.8	695.4	697.5	703.2	710.6	720.3	728.8	736.4
5°	625.0	630.3	633.5	639.4	650.9	652.0	667.0	684.2	703.7	721.9	736.9
7.5°	571.2	577.1	579.8	590.5	605.7	608.1	630.1	657.1	689.8	717.4	740.3
10°	530.8	533.7	539.6	547.7	565.8	567.4	596.1	632.3	674.5	715.2	746.2
12.5°	508.8	510.4	511.7	520.3	538.2	540.7	570.6	611.6	662.5	716.8	755.9
15°	512.0	512.6	506.7	508.3	522.8	526.2	555.9	598.0	655.0	720.8	770.4
17.5°	539.1	537.2	522.8	515.3	525.5	527.1	553.0	592.6	651.5	728.3	785.3
20°	581.6	578.9	554.1	537.5	543.4	544.7	562.6	596.6	655.0	740.6	808.6
22.5°	634.6	633.5	595.8	575.7	575.5	575.5	584.8	611.1	665.4	757.5	833.0
25°	708.8	703.2	653.9	628.0	620.7	620.2	619.1	634.9	678.8	775.4	861.9
27.5°	784.8	775.1	731.2	691.4	675.8	674.0	667.0	668.6	695.9	795.8	894.8
30°	853.0	846.9	805.7	761.5	743.0	738.7	719.5	710.6	724.6	832.4	947.3
32.5°	905.3	901.5	869.3	829.2	801.9	801.1	773.0	765.8	769.3	876.8	1007.2
35°	947.6	948.9	932.5	897.8	866.4	861.9	843.1	834.0	823.8	941.1	1082.7
37.5°	1005.3	1008.3	1007.2	977.2	939.0	940.1	935.8	920.7	893.7	1012.8	1166.5
40°	1069.1	1071.2	1070.9	1059.4	1039.3	1040.4	1038.8	1021.6	981.3	1104.1	1259.6
42.5°	1157.1	1147.0	1120.5	1132.0	1143.8	1148.8	1159.8	1143.4	1088.1	1201.5	1347.1
45°	1255.6	1236.4	1176.4	1181.8	1225.3	1235.0	1295.5	1273.0	1204.0	1313.4	1450.2
47.5°	1317.7	1298.7	1248.1	1247.0	1304.9	1314.2	1421.3	1413.0	1309.4	1434.2	1576.0
50°	1373.1	1370.4	1313.4	1327.1	1383.5	1397.5	1558.4	1550.6	1414.6	1576.5	1713.0
52.5°	1455.3	1433.6	1388.1	1416.2	1490.9	1509.1	1694.3	1671.6	1511.2	1702.4	1846.1
55°	1492.2	1487.1	1484.4	1508.8	1611.4	1624.5	1826.6	1774.3	1593.7	1808.9	1947.3
57.5°	1591.0	1581.6	1608.2	1624.7	1753.2	1773.2	1964.7	1881.7	1665.9	1893.4	1996.5
60°	1718.9	1713.9	1738.2	1768.2	1911.7	1942.2	2122.0	1973.2	1724.0	1936.0	1969.5
62.5°	1910.1	1909.5	1904.9	1969.2	2136.2	2164.3	2302.7	2062.4	1733.1	1904.2	1829.8
65°	2184.2	2174.5	2134.9	2205.0	2415.7	2448.6	2490.9	2112.2	1678.2	1740.6	1540.7
67.5°	2470.8	2470.3	2438.1	2529.1	2816.9	2850.9	2726.2	2101.2	1525.9	1410.0	1094.2
70°	2708.5	2697.0	2738.0	2980.4	3329.4	3368.8	2932.0	1971.9	1215.5	931.2	650.2
72.5°	2765.5	2766.0	2851.2	3328.4	3821.7	3827.9	3006.2	1598.2	813.4	513.7	325.2
74°	2589.9	2594.5	2726.4	3345.8	3913.5	3885.7	2816.6	1256.1	550.0	335.4	234.5
75°	2364.0	2335.4	2526.2	3229.9	3818.2	3788.3	2594.7	1008.0	419.7	267.9	205.3
77.5°	1263.9	1293.1	1587.6	2410.3	3101.9	3067.5	1759.4	483.4	226.7	186.5	147.8
80°	449.9	496.3	697.5	1261.2	1988.7	1999.5	839.7	221.6	159.5	137.6	104.4
82.5°	183.6	188.7	299.5	559.7	1009.9	1019.5	342.9	131.7	114.0	94.8	62.4
85°	71.7	73.8	132.5	251.6	430.9	459.0	118.6	69.6	70.1	54.3	31.9
87.5°	24.1	27.3	54.3	83.8	146.4	143.5	34.6	20.6	25.1	23.5	9.9
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°	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6	737.6
2.5°	740.1	745.2	748.7	752.4	755.9	757.0	756.1	758.6	758.8	759.1	759.3
5°	744.4	751.3	758.0	761.8	763.4	762.0	757.5	755.0	752.9	751.3	751.9
7.5°	750.3	760.2	766.3	767.9	763.6	757.5	746.2	737.4	731.8	728.1	727.8
10°	759.3	769.0	774.1	769.5	757.7	742.8	725.1	708.5	695.9	692.1	691.9
12.5°	770.9	781.9	781.5	768.2	747.6	720.8	692.1	672.9	655.8	647.2	650.7
15°	785.8	794.2	786.4	762.3	729.7	693.0	657.7	631.4	612.2	603.1	603.6
17.5°	803.2	810.5	789.9	751.9	704.5	657.4	616.5	591.6	576.3	569.6	569.0
20°	824.9	827.0	789.9	733.7	672.1	615.9	576.8	559.4	550.9	547.4	548.4
22.5°	848.2	843.9	785.6	708.0	629.6	572.6	546.3	538.6	534.3	533.7	534.3
25°	874.5	862.4	776.7	673.1	585.1	535.0	519.8	521.2	521.9	521.9	523.9
27.5°	906.6	882.5	762.0	629.2	533.2	500.2	496.0	505.4	509.6	510.4	511.7
30°	948.9	904.4	737.6	574.4	489.0	468.9	476.4	489.0	493.8	496.8	496.3
32.5°	999.2	928.5	704.8	519.6	453.4	447.0	456.1	468.9	474.3	475.9	473.7
35°	1058.3	955.8	661.4	468.2	422.4	426.1	436.8	440.9	445.6	445.6	446.7
37.5°	1122.1	977.7	608.4	421.0	398.3	411.9	419.7	416.0	413.8	411.2	412.5
40°	1186.8	994.1	539.6	374.5	374.2	397.2	399.4	388.6	380.0	377.4	376.1
42.5°	1243.3	1004.2	477.5	338.3	351.5	382.7	384.3	367.3	353.6	345.6	342.9
45°	1309.9	1016.0	416.7	308.3	330.3	371.2	375.3	352.2	332.2	315.3	311.0
47.5°	1401.2	1042.8	368.9	285.1	315.0	364.0	369.6	339.9	313.4	291.5	288.0
50°	1504.3	1079.5	331.6	269.3	303.3	357.6	364.6	327.3	296.0	271.6	269.0
52.5°	1598.7	1099.3	299.5	255.1	291.7	345.8	357.8	318.2	278.9	251.9	249.4
55°	1650.4	1067.1	267.9	241.2	275.9	330.6	348.5	305.7	262.3	241.5	237.9
57.5°	1657.4	1000.8	239.3	226.1	259.4	311.8	331.1	290.4	251.6	234.2	231.3
60°	1603.5	901.7	217.1	213.9	242.5	290.6	311.6	277.0	240.6	226.1	223.2
62.5°	1469.7	794.2	201.6	202.6	225.4	268.4	297.1	264.2	230.2	217.3	214.7
65°	1239.5	655.5	186.5	191.1	210.1	251.0	284.0	253.5	219.8	210.7	208.2
67.5°	861.1	473.2	174.3	179.0	195.7	233.4	268.7	242.0	208.0	203.2	199.4
70°	476.7	291.2	159.8	165.4	180.6	213.6	251.6	224.5	190.8	188.7	183.3
72.5°	250.5	185.5	143.5	149.6	160.3	188.1	225.4	205.5	174.0	164.9	157.9
74°	195.7	152.1	132.5	138.9	146.2	173.2	209.8	191.9	162.0	151.2	145.9
75°	170.5	135.4	123.1	131.4	137.8	163.0	197.8	182.2	155.2	145.1	140.3
77.5°	120.4	101.4	100.7	110.5	114.0	143.0	178.3	165.9	138.3	127.7	123.1
80°	84.6	76.0	79.7	86.0	90.7	126.3	165.4	143.5	113.5	100.9	99.3
82.5°	55.2	49.8	57.0	62.7	64.3	93.2	133.6	108.9	82.7	67.2	62.4
85°	25.4	24.9	32.6	31.9	31.6	45.5	79.2	63.7	47.7	35.6	33.5
87.5°	6.4	6.1	8.0	6.7	8.0	7.0	7.2	1.9	0.3	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)