

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: P650717

Luminaire Tested: **GALN-SA1C-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650717  
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-SA1C-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5987.1 lumens  
Efficiency: N/A  
Efficacy: 105.0 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

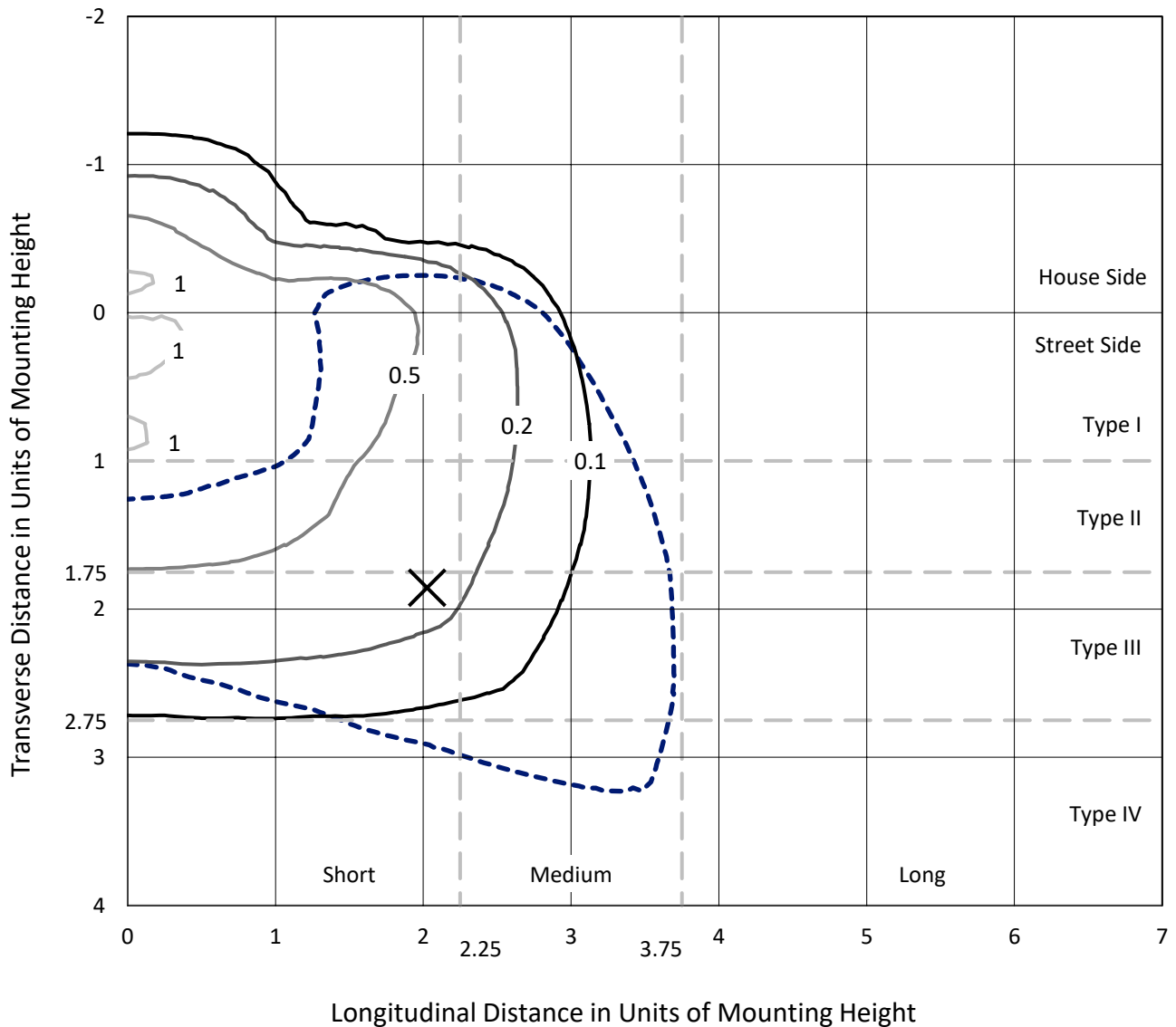
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650717  
 CATALOG NUMBER: GALN-SA1C-840-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

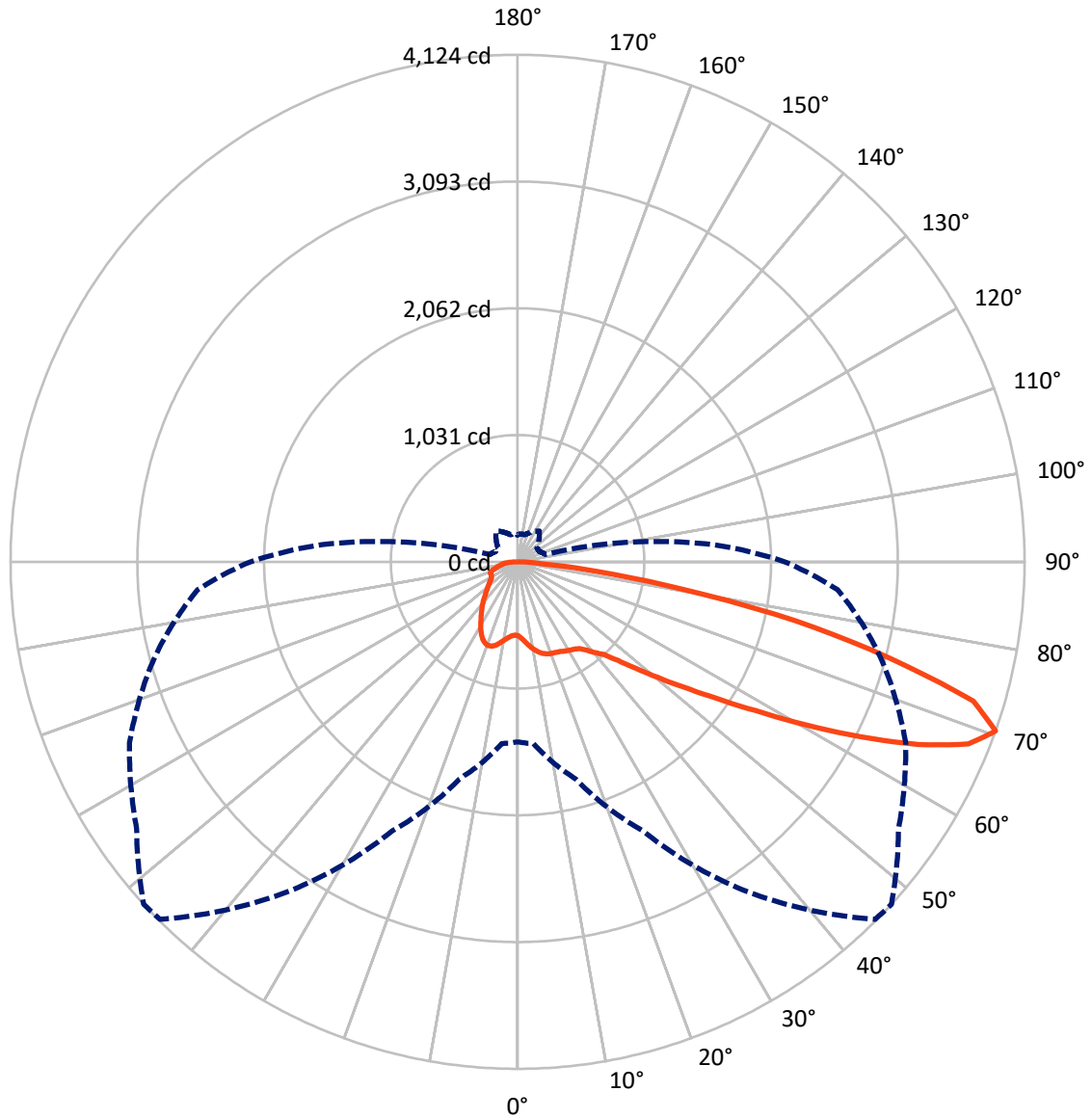
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P650717  
CATALOG NUMBER: GALN-SA1C-840-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P650717  
 CATALOG NUMBER: GALN-SA1C-840-U-T4W

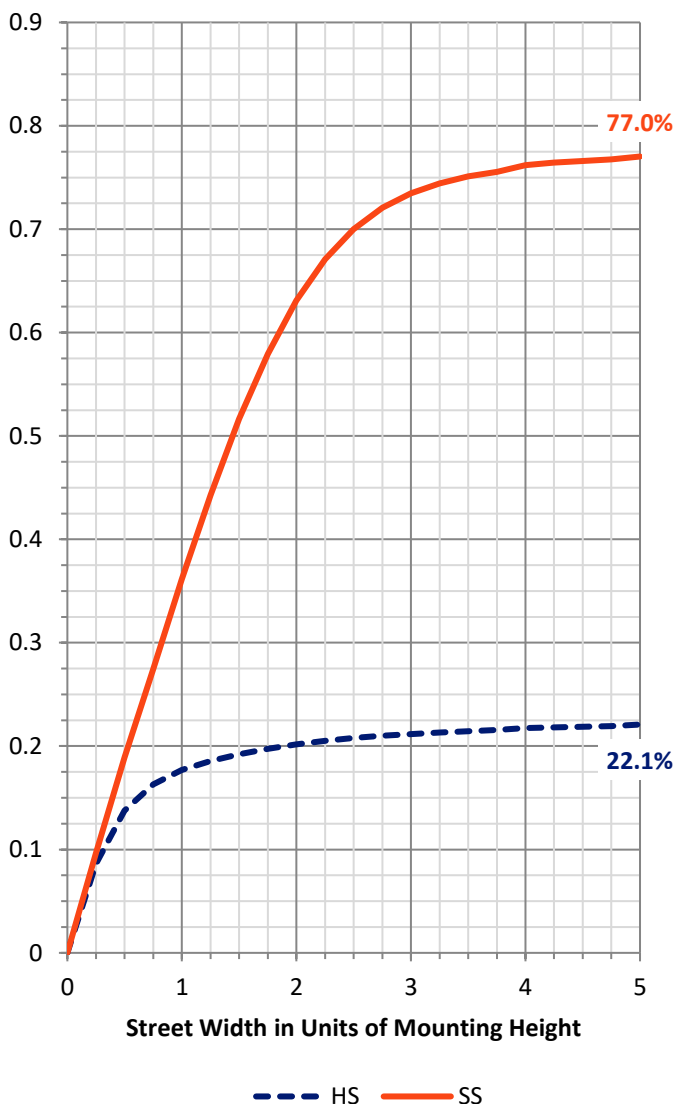
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1355.6	0.0	1355.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4631.5	0.0	4631.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	5987.1	0.0	5987.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	1.0
10°-20°	207.1	3.5
20°-30°	344.4	5.8
30°-40°	488.2	8.2
40°-50°	720.7	12.0
50°-60°	1248.2	20.8
60°-70°	1763.1	29.4
70°-80°	1013.5	16.9
80°-90°	139.8	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°	5987.1	100.0
0°-180°	5987.1	100.0

**Coefficient of Utilization**



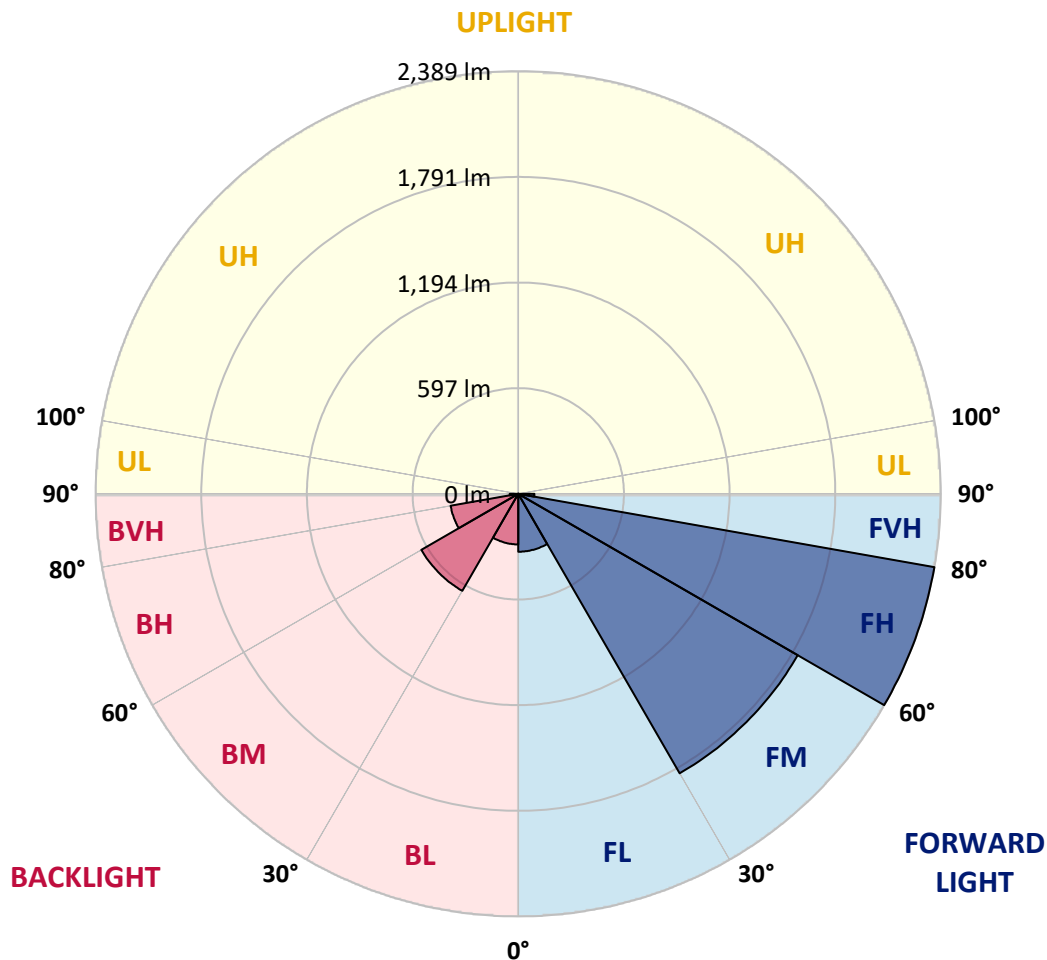
REPORT NUMBER: P650717  
 CATALOG NUMBER: GALN-SA1C-840-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.4	5.5			
FM (30°-60°)	1824.1	30.5			
FH (60°-80°)	2388.6	39.9			G2/5000
FVH (80°-90°)	91.3	1.5			G1/100
BL (0°-30°)	286.1	4.8	B1/500		
BM (30°-60°)	632.9	10.6	B1/1000		
BH (60°-80°)	388.1	6.5	B1/500		G1/500
BVH (80°-90°)	48.5	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: P650717

CATALOG NUMBER: GALN-SA1C-840-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	639.8	637.6	637.2	632.4	629.8	625.0	623.1	618.6	613.2	607.8	602.7
5°	690.1	690.1	687.9	681.1	670.5	659.7	654.9	646.2	630.8	618.3	607.8
7.5°	741.7	742.4	737.8	727.9	712.8	695.3	690.7	677.9	656.1	637.9	622.2
10°	786.3	786.3	780.1	766.7	747.7	728.6	724.0	709.6	685.3	662.5	642.0
12.5°	820.1	820.1	812.2	794.6	774.1	756.7	751.6	737.8	715.1	689.8	663.8
15°	842.3	840.7	831.7	811.8	792.0	776.9	773.4	761.9	741.0	715.4	686.3
17.5°	843.3	842.6	833.9	817.3	800.0	789.7	787.5	779.8	763.5	739.2	708.4
20°	824.7	825.9	820.1	808.3	800.0	795.5	794.6	792.0	780.4	757.7	727.0
22.5°	804.8	807.0	801.6	795.2	794.6	799.0	799.7	800.3	793.0	770.9	742.6
25°	800.0	801.6	796.2	790.4	793.9	805.8	808.3	810.9	805.1	786.5	761.2
27.5°	824.3	823.1	812.5	800.0	802.2	818.2	821.7	824.7	821.7	805.8	784.3
30°	893.2	889.0	867.9	831.4	819.9	831.1	834.6	842.6	842.6	830.7	809.3
32.5°	1008.5	1000.5	961.8	890.0	850.0	843.3	846.8	859.9	866.7	857.3	833.9
35°	1148.6	1140.2	1084.8	988.3	905.1	867.6	866.7	881.4	899.3	878.5	848.1
37.5°	1289.2	1280.6	1213.9	1105.7	985.5	918.9	913.1	918.2	925.9	887.8	867.6
40°	1429.9	1419.6	1361.3	1236.7	1083.9	986.7	971.7	948.6	945.5	918.2	905.4
42.5°	1569.2	1559.9	1530.5	1383.7	1201.7	1053.1	1030.1	990.3	1002.5	986.2	974.9
45°	1709.8	1710.5	1679.1	1548.7	1344.0	1175.5	1144.4	1082.2	1111.0	1105.0	1111.4
47.5°	1834.5	1832.9	1821.7	1708.9	1520.5	1333.1	1293.0	1221.0	1270.3	1292.7	1341.7
50°	1955.2	1954.3	1955.0	1890.6	1725.6	1520.5	1476.3	1400.7	1511.9	1589.7	1677.5
52.5°	2128.2	2133.7	2094.9	2077.9	1974.8	1741.9	1693.2	1615.1	1797.3	1920.0	2091.4
55°	2301.9	2297.4	2267.0	2284.7	2235.6	2003.9	1953.1	1890.9	2115.1	2249.3	2506.9
57.5°	2404.1	2405.8	2436.8	2523.0	2557.6	2330.7	2284.7	2236.6	2472.4	2567.5	2876.6
60°	2496.1	2503.4	2592.8	2755.5	2849.5	2732.2	2691.2	2644.4	2800.1	2838.0	3197.7
62.5°	2524.9	2547.6	2703.6	2947.2	3134.0	3185.2	3134.2	3031.1	3112.1	3097.4	3415.2
65°	2381.0	2412.2	2691.8	3018.9	3388.0	3615.1	3582.8	3391.2	3378.0	3289.3	3450.8
67.5°	2002.3	2033.5	2392.6	2868.3	3493.1	3987.4	3955.1	3653.9	3539.5	3307.2	3181.7
70°	1465.1	1484.6	1828.1	2415.0	3282.0	4112.4	4123.6	3782.1	3481.9	3063.4	2612.4
72.5°	844.2	887.4	1128.0	1699.0	2681.3	3796.5	3874.3	3515.5	3117.3	2555.6	1826.5
75°	363.0	364.0	521.6	937.1	1815.9	3051.6	3126.9	2914.1	2448.0	1767.2	975.2
77.5°	172.7	175.9	229.4	418.4	999.6	2108.4	2311.6	2058.8	1565.7	849.0	368.4
80°	112.1	114.4	140.4	207.6	490.2	1222.6	1364.2	1187.7	690.7	303.4	158.9
82.5°	68.0	68.5	93.9	126.9	269.8	553.6	652.6	515.4	294.8	181.7	93.5
85°	41.3	41.6	57.0	78.5	163.7	191.2	196.4	194.8	173.0	118.8	50.0
87.5°	19.8	20.5	29.4	37.2	64.4	59.3	56.1	65.0	81.7	64.1	21.4
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: P650717  
 CATALOG NUMBER: GALN-SA1C-840-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	600.4	599.5	597.2	596.2	595.6	595.9	595.6	595.6	595.9	595.9	595.9
5°	603.2	601.7	598.1	598.1	600.1	604.6	608.7	611.9	615.4	615.1	615.1
7.5°	615.8	612.9	608.7	610.0	614.8	621.8	629.2	636.3	643.3	644.0	643.6
10°	634.0	631.2	626.6	628.2	636.0	646.6	655.8	666.1	673.7	676.0	675.3
12.5°	654.9	649.1	645.2	649.8	661.9	676.0	685.0	692.6	698.1	701.3	700.0
15°	676.0	670.5	666.1	675.3	690.1	703.2	707.7	709.0	710.0	713.2	712.5
17.5°	696.5	689.1	687.5	699.7	713.8	719.6	717.0	711.6	707.4	710.0	709.6
20°	714.8	709.0	708.4	720.6	726.0	720.6	709.6	700.0	692.6	693.3	693.0
22.5°	732.1	727.5	728.2	733.4	724.7	706.1	688.2	675.1	667.0	668.6	669.6
25°	751.3	746.8	748.4	740.1	711.6	679.2	653.3	642.0	638.8	642.0	644.3
27.5°	776.2	773.4	772.5	740.4	688.2	639.5	610.0	605.9	608.7	615.8	619.3
30°	803.2	803.2	798.0	734.9	656.1	591.7	566.1	566.7	576.7	586.6	590.1
32.5°	829.1	834.6	818.5	720.2	614.8	545.3	525.7	526.4	535.0	547.2	550.4
35°	850.6	866.3	836.2	693.3	566.1	506.2	491.5	482.8	483.2	492.4	495.0
37.5°	880.1	909.2	846.5	653.3	514.2	472.9	456.2	441.2	431.3	427.4	427.4
40°	931.3	974.3	849.0	594.0	465.2	441.2	417.5	399.5	380.3	363.0	359.8
42.5°	1018.2	1072.3	843.9	525.7	421.0	406.2	383.2	361.0	334.5	310.2	308.2
45°	1171.9	1199.9	830.1	454.9	381.6	372.6	350.2	326.1	298.0	276.2	274.6
47.5°	1418.3	1378.9	811.8	392.2	345.7	343.1	325.8	298.0	269.8	254.7	253.1
50°	1778.1	1660.8	809.3	346.7	316.9	318.2	304.0	278.4	253.7	241.3	239.3
52.5°	2211.2	2001.4	826.3	314.6	291.6	296.4	289.3	265.6	243.8	233.2	231.3
55°	2631.6	2307.7	836.5	289.6	267.9	276.8	277.8	257.9	238.0	227.5	226.2
57.5°	2972.8	2538.4	791.0	266.8	247.3	261.1	268.2	253.4	235.1	227.2	225.9
60°	3210.2	2647.3	661.6	246.7	232.3	248.6	264.7	253.7	242.2	243.1	243.8
62.5°	3285.8	2598.9	496.3	231.6	222.0	244.5	270.4	266.8	255.0	262.4	263.7
65°	3160.6	2399.0	359.8	219.8	213.0	247.3	287.7	276.5	250.5	256.0	256.0
67.5°	2741.2	2066.8	280.1	208.9	202.8	252.8	305.0	275.5	239.9	246.4	240.6
70°	2174.4	1598.7	233.2	196.7	191.9	244.7	306.6	265.6	227.5	228.8	217.8
72.5°	1443.0	1051.2	200.6	185.2	175.3	220.1	293.5	252.8	215.3	207.9	197.0
75°	707.1	524.1	174.9	170.7	153.5	191.6	275.5	240.6	202.2	190.7	184.5
77.5°	273.9	222.9	149.3	152.5	133.6	168.9	251.8	223.3	184.9	169.1	164.3
80°	133.0	126.6	122.4	127.2	109.9	143.8	230.0	208.2	168.9	151.5	144.5
82.5°	82.7	78.2	93.9	99.0	84.6	131.4	218.2	195.4	148.7	125.6	119.8
85°	42.0	44.8	62.8	67.6	60.6	104.5	179.7	146.8	107.3	89.1	89.7
87.5°	16.0	21.4	33.0	35.6	32.4	55.1	99.0	85.5	68.9	46.8	43.2
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)