

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: P648226

Luminaire Tested: **GALN-SA1B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2981.7 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

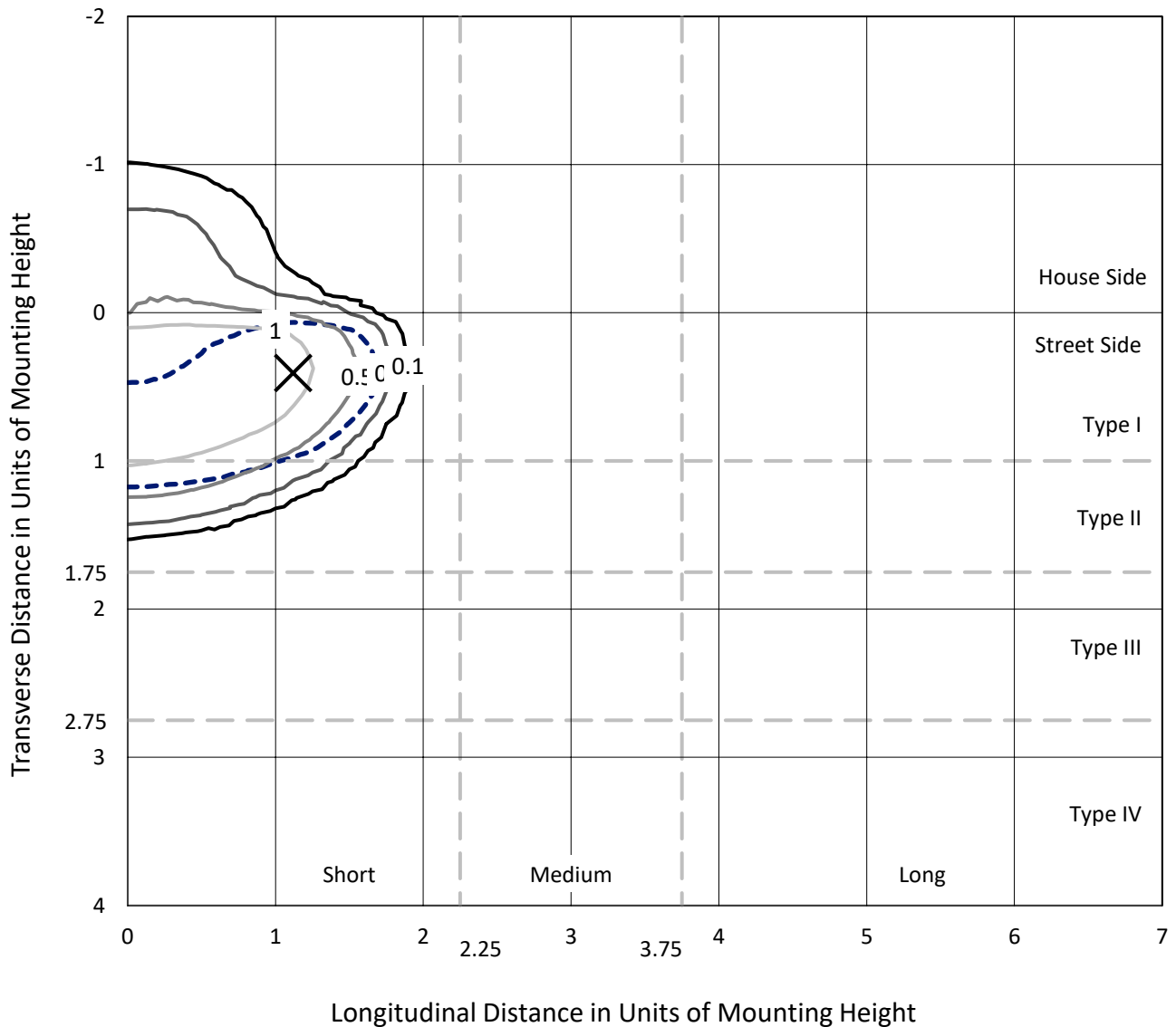
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

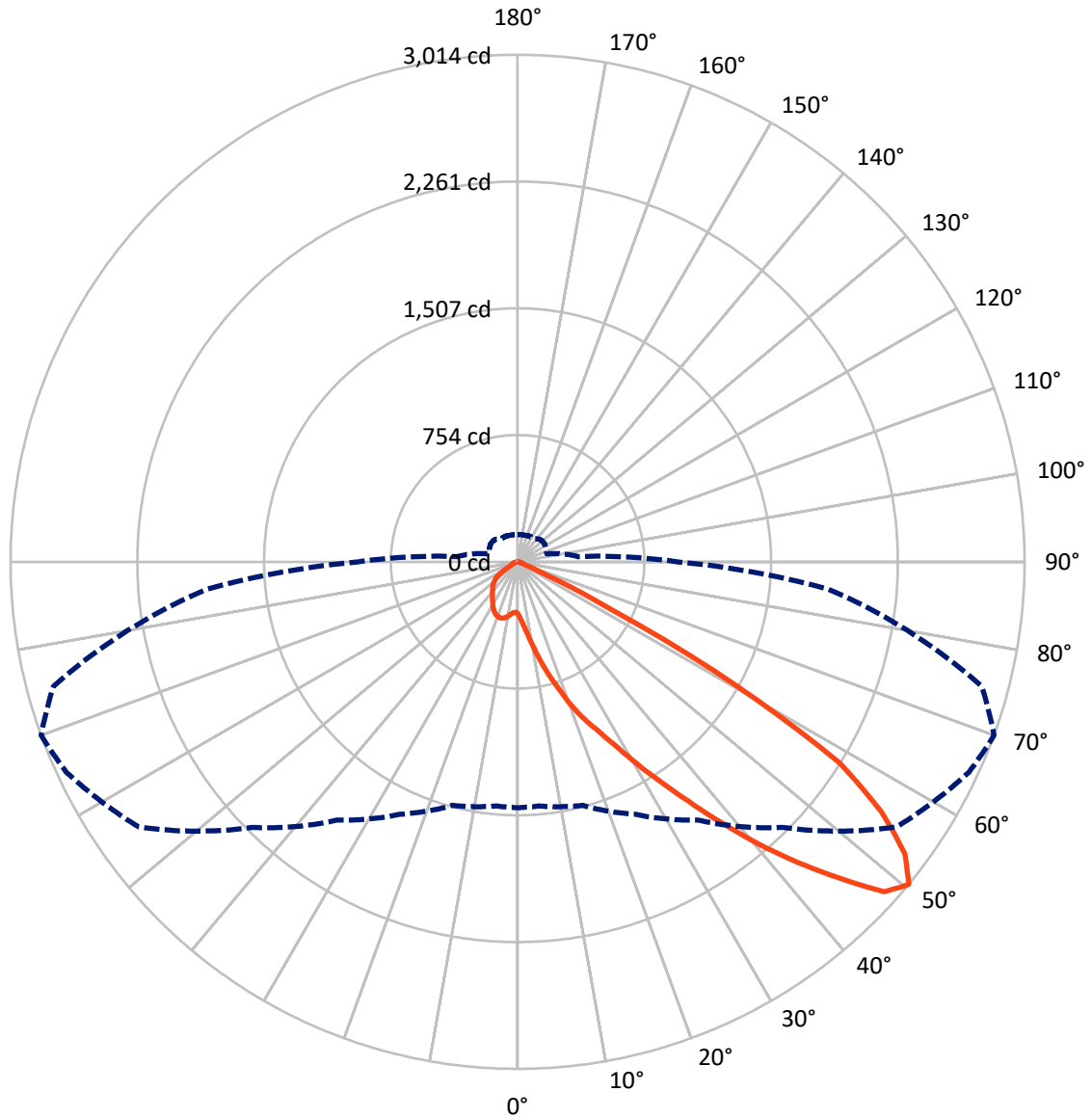
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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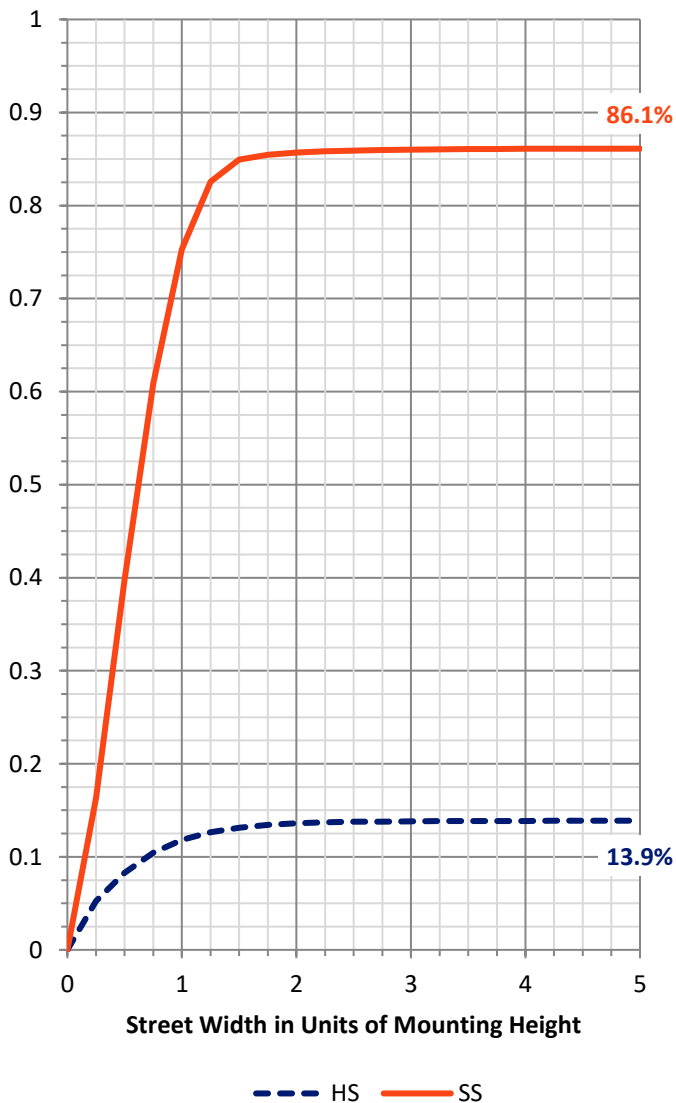
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	416.4	0.0	416.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	2565.3	0.0	2565.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	2981.7	0.0	2981.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	1.3
10°-20°	173.7	5.8
20°-30°	364.4	12.2
30°-40°	628.2	21.1
40°-50°	918.1	30.8
50°-60°	715.0	24.0
60°-70°	121.1	4.1
70°-80°	16.6	0.6
80°-90°	4.3	0.1
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°	2981.7	100.0
0°-180°	2981.7	100.0

**Coefficient of Utilization**



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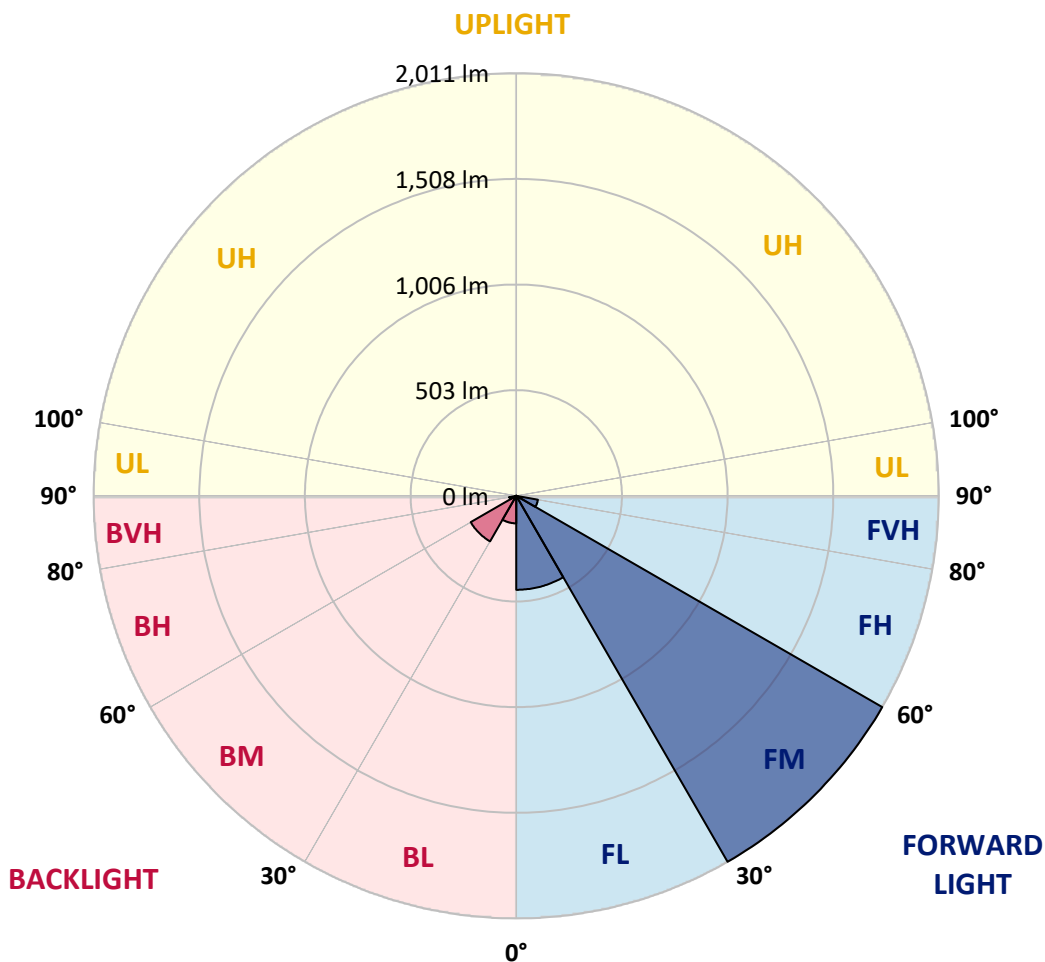
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.3	15.0			
FM (30°-60°)	2011.1	67.4			
FH (60°-80°)	104.9	3.5			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	131.0	4.4	B1/500		
BM (30°-60°)	250.2	8.4	B1/1000		
BH (60°-80°)	32.9	1.1	B0/110		G0/110
BVH (80°-90°)	2.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8
2.5°	404.4	401.5	395.1	383.4	378.4	366.7	359.8	346.6	338.3	328.9	318.7
5°	569.6	554.4	545.1	531.9	493.1	469.2	429.5	395.6	379.9	362.8	339.3
7.5°	740.2	730.5	717.7	689.3	662.8	612.8	544.7	470.1	438.2	408.9	362.3
10°	881.4	853.9	852.5	831.4	802.5	742.7	660.9	568.1	511.3	468.2	395.1
12.5°	979.9	954.9	966.2	963.8	936.8	881.9	787.3	664.8	605.4	538.2	428.9
15°	1069.7	1059.4	1056.0	1053.0	1042.3	1001.5	916.7	782.4	696.6	615.8	467.2
17.5°	1157.4	1131.0	1143.7	1146.2	1145.1	1108.4	1029.0	894.2	793.2	697.6	507.4
20°	1235.3	1237.8	1220.7	1217.3	1214.3	1212.8	1135.4	1005.0	911.8	783.4	559.8
22.5°	1335.4	1318.2	1333.4	1323.6	1304.5	1292.7	1233.4	1103.0	1014.8	886.8	613.2
25°	1453.5	1467.3	1431.5	1427.6	1406.4	1365.8	1312.3	1212.8	1113.8	982.9	671.1
27.5°	1599.1	1575.1	1565.8	1544.2	1505.9	1488.8	1426.1	1326.1	1233.4	1083.9	727.0
30°	1724.1	1717.7	1671.2	1645.7	1612.4	1611.9	1524.1	1479.5	1389.3	1242.2	804.0
32.5°	1826.1	1798.2	1781.0	1763.3	1736.4	1743.7	1669.7	1646.2	1555.5	1389.3	894.7
35°	1894.2	1874.1	1863.9	1836.8	1829.0	1861.9	1831.0	1821.2	1746.6	1596.1	1001.1
37.5°	1915.8	1922.2	1920.2	1886.4	1903.1	1991.8	2031.5	2006.0	1966.8	1814.3	1116.2
40°	1934.9	1939.3	1929.5	1969.2	2016.8	2117.8	2261.4	2219.3	2204.5	2035.4	1276.5
42.5°	1945.7	1942.3	1942.3	2010.9	2082.9	2285.9	2483.4	2455.6	2444.3	2270.7	1461.9
45°	1899.2	1865.8	1901.6	1994.7	2139.9	2368.7	2660.9	2699.7	2683.5	2550.6	1678.5
47.5°	1725.1	1745.7	1765.8	1890.3	2070.7	2343.3	2769.8	2901.6	2931.6	2785.9	1820.7
50°	1461.9	1457.5	1499.1	1656.0	1875.1	2233.4	2748.7	2960.0	3014.4	2856.5	1850.6
52.5°	1063.3	1095.7	1140.8	1296.6	1556.4	1949.1	2476.6	2809.5	2882.1	2769.8	1831.0
55°	619.1	583.3	684.8	816.7	1061.8	1470.2	2093.7	2490.3	2624.7	2611.9	1732.0
57.5°	248.1	240.2	275.0	370.6	554.0	911.3	1522.6	2046.2	2261.4	2392.3	1522.2
60°	108.8	106.4	125.0	151.0	226.5	420.2	832.9	1272.6	1497.2	1671.7	1047.6
62.5°	78.5	77.4	86.8	96.1	119.6	182.8	350.0	512.8	639.2	772.1	469.2
65°	63.3	65.7	72.0	77.0	88.2	101.5	123.6	142.7	175.0	181.4	103.4
67.5°	51.4	53.4	59.4	64.7	66.6	54.9	56.8	50.0	50.0	44.6	35.8
70°	37.7	38.2	45.1	51.4	41.2	22.1	38.8	38.8	34.8	33.4	30.4
72.5°	28.0	28.4	33.8	31.9	16.2	13.7	28.4	31.4	28.4	26.9	24.5
75°	20.6	21.1	17.6	7.4	6.9	8.8	16.7	21.5	20.6	20.1	18.6
77.5°	3.9	3.0	2.4	3.4	4.9	7.4	10.8	13.2	13.7	14.7	13.7
80°	0.5	0.5	1.5	3.0	5.4	7.8	11.3	12.8	13.2	13.7	12.8
82.5°	0.0	0.5	1.5	3.0	5.4	7.4	9.8	11.3	12.3	12.8	12.3
85°	0.0	0.5	1.0	2.4	4.4	5.4	4.9	3.4	3.0	3.4	2.4
87.5°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8	308.8
2.5°	312.7	310.8	304.0	296.6	290.2	293.2	290.2	287.8	288.8	287.8	286.8
5°	330.0	321.1	306.4	300.0	294.6	294.2	292.7	292.1	292.7	292.7	288.2
7.5°	346.1	331.9	316.2	309.4	302.9	303.4	300.0	300.0	299.5	297.1	296.1
10°	370.6	351.5	331.4	319.2	311.3	309.8	306.4	302.9	302.9	302.9	298.1
12.5°	397.6	373.6	346.1	331.9	322.6	315.2	309.8	308.8	303.4	302.5	300.0
15°	421.1	390.7	355.9	336.3	324.6	314.7	306.4	301.0	298.6	297.1	295.1
17.5°	444.1	405.4	361.3	336.3	323.5	312.3	303.4	298.6	292.7	293.6	289.7
20°	475.0	421.1	362.8	330.0	314.2	303.4	291.7	289.2	285.8	282.9	283.8
22.5°	505.0	432.4	358.4	322.0	299.5	286.8	280.9	278.0	276.5	274.0	270.6
25°	531.9	444.7	351.5	307.9	283.8	274.5	269.1	268.6	265.2	265.2	258.9
27.5°	559.4	449.1	339.7	291.2	270.1	264.7	262.3	261.3	259.8	256.4	252.0
30°	590.7	450.5	322.6	274.0	257.8	252.0	255.4	257.8	251.5	245.1	247.0
32.5°	616.7	447.1	302.0	257.8	249.1	246.1	253.0	255.4	248.1	241.2	237.8
35°	648.1	438.7	281.9	245.1	240.2	246.1	252.0	252.0	237.2	228.9	227.0
37.5°	695.6	429.5	263.2	234.4	230.9	243.1	251.0	245.6	222.5	212.3	209.8
40°	746.6	423.5	245.1	223.5	226.0	238.3	242.7	226.0	202.5	196.1	194.1
42.5°	820.7	411.8	228.9	214.2	221.6	231.4	231.4	201.5	192.7	189.3	188.7
45°	912.8	403.5	214.7	206.4	215.2	217.7	209.8	188.7	182.4	181.4	181.9
47.5°	957.9	387.3	200.0	197.1	203.4	204.0	183.4	178.4	173.0	171.6	170.6
50°	951.0	358.4	180.9	184.8	193.6	188.7	167.2	168.1	163.3	162.8	160.3
52.5°	903.0	312.7	161.8	171.1	180.9	166.7	153.9	152.9	152.9	146.6	144.2
55°	800.5	252.0	138.7	150.5	162.2	140.2	136.8	135.8	133.3	127.5	126.0
57.5°	633.8	184.8	104.5	117.1	137.7	119.1	118.6	114.2	107.8	103.4	103.4
60°	377.0	106.4	65.7	71.6	91.2	96.5	107.3	105.4	94.6	87.8	85.8
62.5°	172.1	54.9	41.7	42.7	49.0	62.7	84.3	97.6	82.4	70.6	69.6
65°	57.9	40.7	34.3	32.8	33.8	37.7	50.5	69.1	65.7	54.4	52.5
67.5°	35.3	36.3	32.3	29.9	29.9	29.4	28.9	31.4	38.8	37.7	38.2
70°	30.4	33.4	29.9	26.9	26.0	24.5	20.6	17.1	14.7	17.1	18.2
72.5°	24.5	26.5	25.5	23.0	20.6	18.6	14.7	11.3	8.3	7.4	7.4
75°	18.2	19.6	20.6	17.6	15.7	13.2	10.8	7.4	4.4	3.0	3.0
77.5°	13.2	14.7	15.2	13.7	11.7	9.3	6.9	4.9	2.4	1.0	1.0
80°	11.3	13.2	14.7	13.7	12.3	8.8	6.3	3.4	2.0	0.5	0.5
82.5°	10.8	13.2	14.7	13.2	11.7	8.3	6.3	3.9	1.5	0.5	0.5
85°	2.4	3.4	4.4	5.4	6.3	6.3	4.9	3.0	1.5	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	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)