

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: P652189

Luminaire Tested: **GALN-SA1B-840-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
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-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4935 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

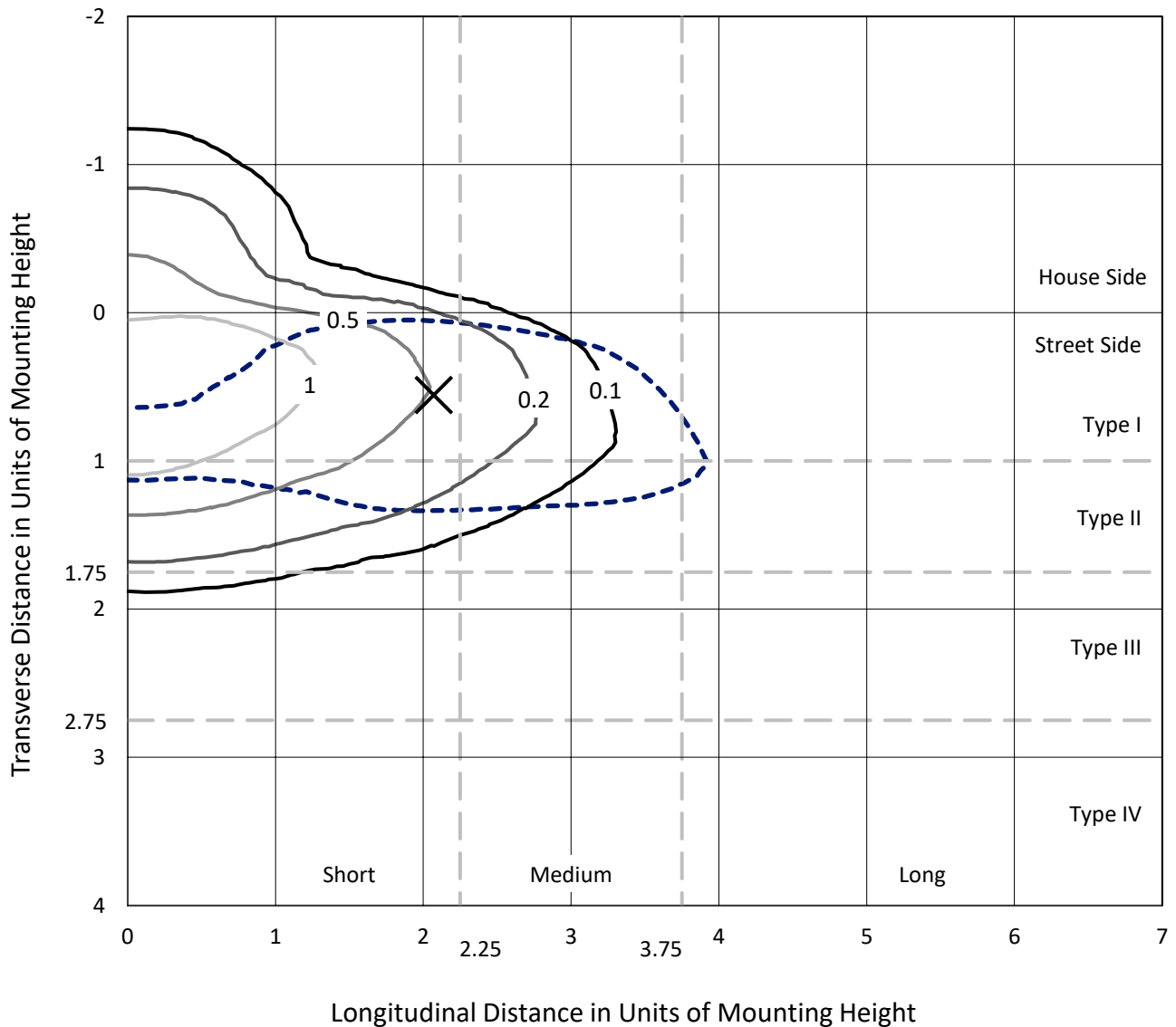
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

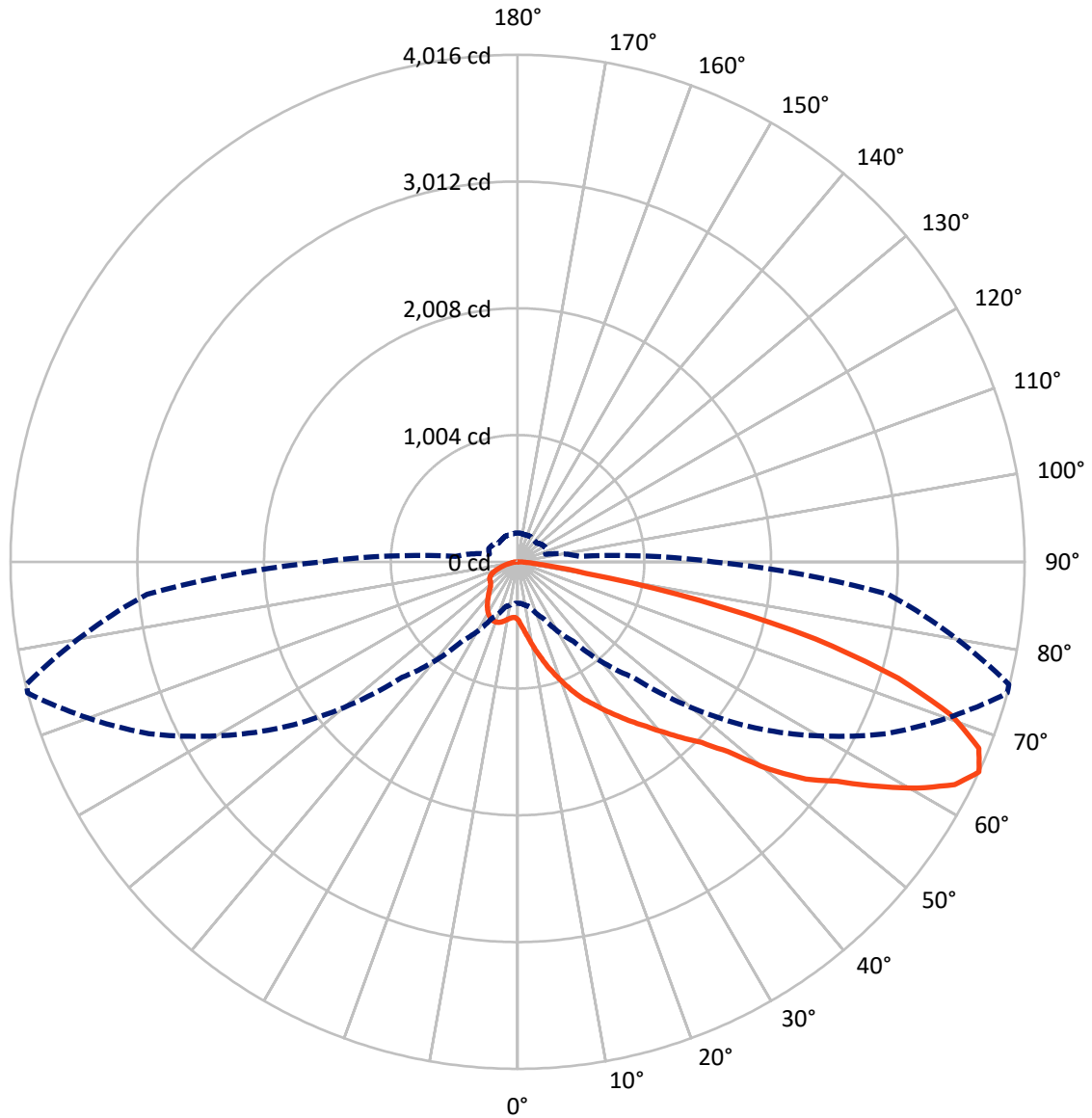
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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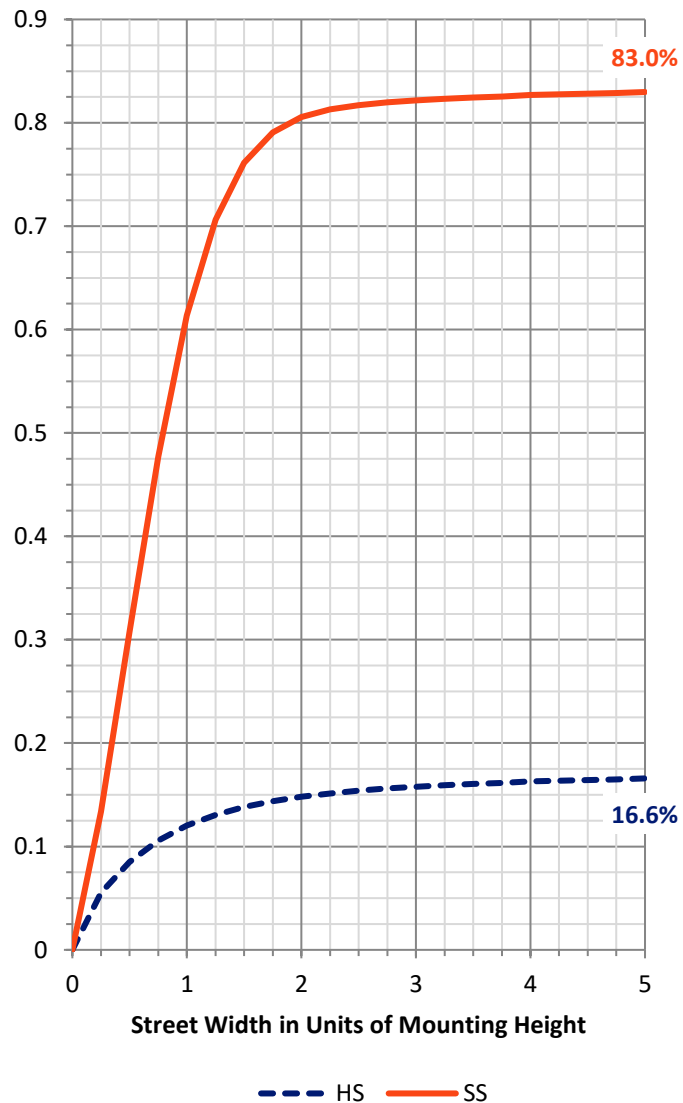
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	829.6	0.0	829.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4105.3	0.0	4105.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	4935.0	0.0	4935.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	1.1
10°-20°	218.2	4.4
20°-30°	421.5	8.5
30°-40°	684.6	13.9
40°-50°	941.8	19.1
50°-60°	1111.9	22.5
60°-70°	974.2	19.7
70°-80°	465.1	9.4
80°-90°	61.9	1.3
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°	4935.0	100.0
0°-180°	4935.0	100.0

**Coefficient of Utilization**

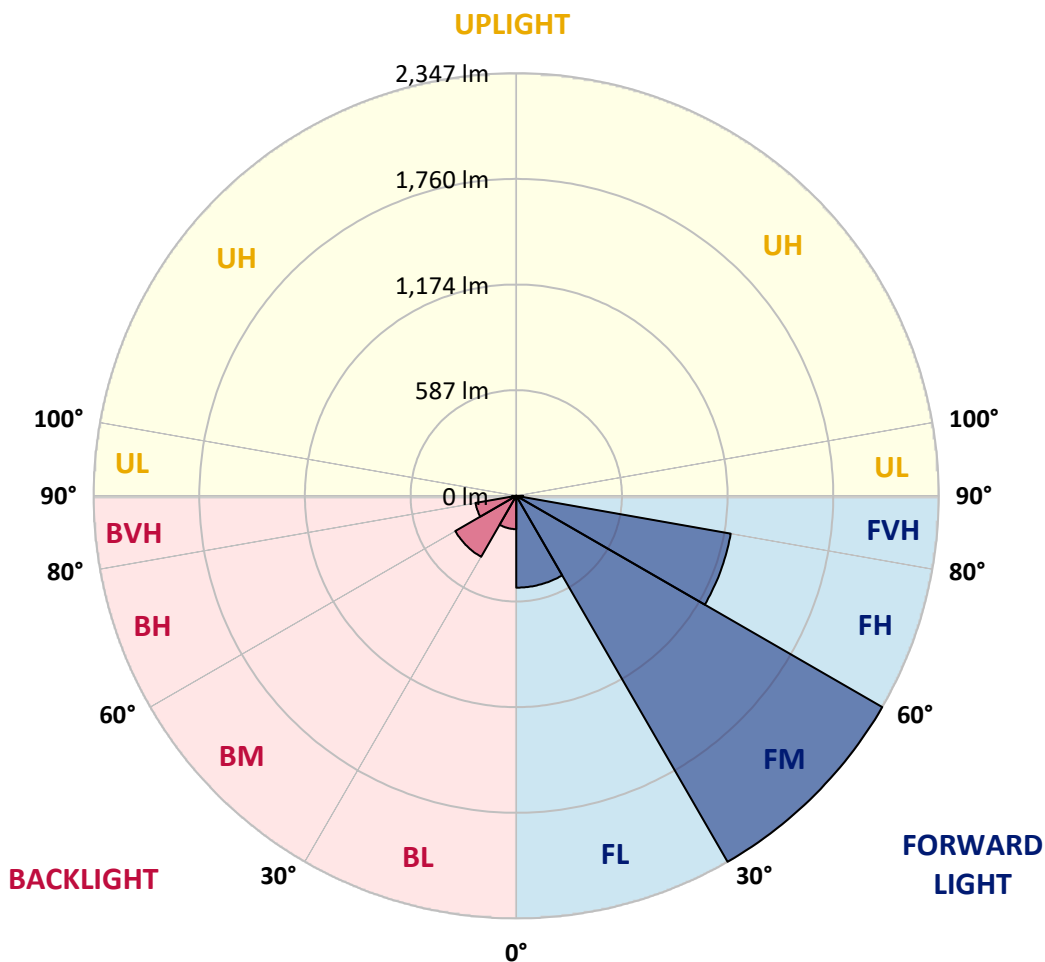


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.2	10.3			
FM (30°-60°)	2347.2	47.6			
FH (60°-80°)	1209.3	24.5			G1/1800
FVH (80°-90°)	38.7	0.8			G1/100
BL (0°-30°)	185.2	3.8	B1/500		
BM (30°-60°)	391.2	7.9	B1/1000		
BH (60°-80°)	230.0	4.7	B1/500		G1/500
BVH (80°-90°)	23.2	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	609.2	605.2	600.9	589.1	576.6	562.4	542.0	522.5	496.5	495.8	476.4
5°	778.1	775.5	756.5	745.5	716.3	677.5	644.5	593.4	546.1	540.4	502.9
7.5°	933.3	922.9	915.7	895.9	867.0	817.2	753.5	684.4	605.2	597.7	535.6
10°	1050.3	1049.3	1045.5	1028.4	1006.7	957.2	886.5	787.5	680.1	665.4	575.2
12.5°	1137.9	1138.7	1138.1	1137.9	1122.3	1080.3	1003.7	899.4	755.9	745.5	621.0
15°	1195.4	1203.5	1206.7	1220.0	1221.4	1193.3	1127.4	1007.5	841.3	825.8	670.3
17.5°	1233.4	1237.4	1252.4	1275.2	1293.6	1288.6	1230.0	1107.6	928.5	902.6	721.4
20°	1269.8	1276.8	1288.3	1319.4	1352.0	1367.0	1325.8	1210.1	1015.0	998.4	777.8
22.5°	1345.6	1355.5	1359.5	1375.3	1403.1	1429.6	1410.9	1308.3	1109.8	1087.2	837.8
25°	1473.8	1484.3	1473.0	1469.2	1478.4	1491.4	1487.5	1401.0	1199.2	1167.1	894.6
27.5°	1640.8	1642.1	1620.2	1599.3	1576.9	1570.1	1557.9	1483.2	1276.8	1250.1	951.6
30°	1820.2	1813.8	1777.4	1739.6	1701.6	1664.1	1628.8	1562.4	1363.3	1332.5	1007.5
32.5°	1986.7	1983.2	1942.8	1884.2	1819.9	1784.6	1713.1	1642.5	1455.9	1426.2	1065.0
35°	2111.4	2116.5	2072.1	2008.1	1937.9	1906.6	1816.4	1726.5	1551.7	1519.3	1127.7
37.5°	2200.0	2197.3	2158.0	2102.6	2041.0	2013.7	1937.2	1818.3	1654.8	1623.7	1196.2
40°	2231.6	2230.0	2200.8	2160.4	2121.3	2111.7	2063.5	1917.3	1772.8	1736.4	1278.7
42.5°	2211.5	2215.0	2195.7	2184.7	2177.5	2184.5	2189.0	2047.2	1901.6	1868.1	1368.1
45°	2149.9	2148.1	2145.4	2163.3	2204.0	2249.8	2313.3	2169.8	2041.5	2014.8	1488.0
47.5°	2039.9	2053.3	2060.0	2109.6	2198.4	2306.8	2456.1	2334.1	2244.7	2221.4	1670.8
50°	1886.0	1896.7	1936.3	2024.4	2156.9	2328.2	2595.9	2602.8	2583.6	2539.9	1869.5
52.5°	1645.7	1662.2	1743.9	1905.3	2071.8	2319.4	2680.4	2833.3	2858.7	2826.1	2065.1
55°	1376.6	1399.9	1486.1	1697.8	1954.6	2271.2	2738.8	2966.9	3068.3	3038.1	2253.5
57.5°	1113.2	1137.9	1226.5	1431.6	1750.0	2164.6	2777.1	3115.7	3353.7	3314.3	2488.0
60°	834.4	860.0	936.0	1147.2	1458.8	1956.4	2751.2	3244.7	3638.8	3621.9	2722.7
62.5°	538.3	566.7	632.8	807.5	1121.3	1671.9	2612.2	3315.9	3885.5	3865.2	2894.0
65°	327.9	331.1	367.5	501.3	767.4	1294.5	2294.5	3221.5	4015.6	4009.5	2946.3
67.5°	212.0	217.1	233.7	300.3	460.1	899.1	1834.6	2909.6	3939.6	3937.5	2838.4
70°	179.0	180.6	188.1	202.6	267.4	545.2	1288.3	2412.5	3650.8	3650.8	2579.0
72.5°	160.0	162.2	164.9	169.5	190.8	308.9	768.8	1878.0	3152.1	3173.0	2195.2
75°	145.3	144.8	146.4	147.3	162.7	201.8	397.5	1388.9	2438.5	2396.8	1589.7
77.5°	124.5	125.3	124.5	127.9	143.7	153.7	201.8	932.0	1477.8	1423.7	797.9
80°	102.3	103.6	105.0	107.1	122.9	116.7	121.3	424.8	546.6	535.0	246.5
82.5°	76.8	78.7	80.8	86.0	96.6	77.1	76.5	181.5	197.3	180.6	90.7
85°	31.0	36.7	55.4	60.5	60.7	42.3	47.1	75.8	80.6	78.7	35.6
87.5°	7.2	8.6	17.9	27.0	24.9	15.8	17.4	24.6	28.1	26.0	12.0
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°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	467.6	458.3	442.2	429.9	421.1	413.3	408.5	405.5	404.4	404.2	404.4
5°	483.4	466.8	441.4	425.3	416.5	411.4	408.5	408.2	408.5	408.7	408.0
7.5°	505.1	481.3	448.1	433.1	426.4	422.7	421.3	420.8	421.1	420.8	420.8
10°	534.0	501.3	461.2	445.6	440.1	435.8	433.6	432.3	431.2	430.2	429.6
12.5°	565.8	523.6	475.4	460.4	452.4	445.6	440.9	437.4	435.0	432.5	432.0
15°	601.5	547.2	491.1	470.3	458.8	448.9	440.6	435.0	430.7	427.2	427.0
17.5°	635.5	569.4	501.9	474.8	458.0	444.0	433.1	425.3	420.0	415.5	414.9
20°	671.9	590.5	506.7	471.9	449.9	433.1	418.6	409.2	403.1	398.0	397.2
22.5°	708.5	608.4	506.2	462.6	436.1	416.2	401.0	391.1	383.8	378.8	376.9
25°	743.6	622.8	499.5	447.6	416.8	396.2	380.6	371.6	365.1	358.9	358.9
27.5°	775.1	631.4	486.9	429.3	397.0	375.3	363.0	354.6	348.8	344.7	342.4
30°	806.3	635.5	469.8	406.3	376.1	357.6	347.7	342.9	337.5	333.0	332.4
32.5°	834.1	634.6	448.3	383.8	356.2	343.1	339.2	335.4	329.8	323.4	321.8
35°	861.1	629.3	422.9	359.2	339.7	334.5	335.6	330.3	320.2	312.1	310.7
37.5°	890.5	619.6	395.1	339.2	325.7	330.6	333.3	321.5	304.9	292.3	289.4
40°	924.5	608.7	366.2	319.1	314.8	326.8	326.8	305.1	282.4	274.7	272.5
42.5°	964.5	599.5	342.1	302.2	305.7	317.7	316.4	283.5	274.1	270.0	269.0
45°	1027.6	596.4	317.2	287.5	298.2	307.0	296.0	275.9	270.6	267.4	266.3
47.5°	1127.4	600.1	295.3	276.5	289.6	296.3	273.3	270.9	267.1	262.6	262.1
50°	1220.0	596.6	279.7	270.4	282.2	283.5	263.9	264.7	262.6	257.5	256.4
52.5°	1295.8	585.7	269.8	267.1	275.7	261.0	255.1	258.0	257.3	250.8	249.8
55°	1379.1	578.9	265.0	267.1	271.4	241.5	246.8	251.0	250.0	245.5	245.2
57.5°	1480.0	580.3	261.6	267.9	267.1	231.5	238.5	243.6	243.3	242.0	242.0
60°	1583.3	580.9	256.2	267.7	262.1	223.8	229.9	237.2	237.7	238.5	238.5
62.5°	1617.6	557.6	245.7	262.8	250.8	216.3	221.9	231.8	231.3	233.4	233.7
65°	1553.6	493.1	230.2	251.9	236.3	210.9	215.7	224.9	221.9	227.5	228.6
67.5°	1414.1	408.0	206.1	232.0	220.3	205.3	211.8	215.2	209.8	220.8	221.1
70°	1222.2	318.6	175.6	203.9	202.1	199.4	208.5	203.2	195.7	209.1	206.4
72.5°	1022.0	243.3	140.3	166.8	177.7	190.6	202.9	187.6	177.2	181.2	176.4
75°	767.7	179.9	112.7	130.6	148.0	178.0	197.8	168.9	152.8	149.1	148.0
77.5°	391.3	117.5	84.4	97.7	111.1	160.9	190.8	146.9	126.6	120.7	118.1
80°	139.7	73.1	59.5	67.4	74.9	138.4	166.8	121.5	98.2	97.1	98.2
82.5°	64.8	47.1	39.9	44.2	44.4	92.3	127.2	90.7	74.7	113.5	95.8
85°	27.8	23.5	22.5	22.0	20.4	41.2	71.5	48.7	76.0	34.0	31.3
87.5°	8.3	9.3	8.3	6.1	4.5	4.5	7.2	2.7	1.9	1.3	1.3
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)