

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: P938727

Luminaire Tested: **GALN-SB1A-727-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-727-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4165 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

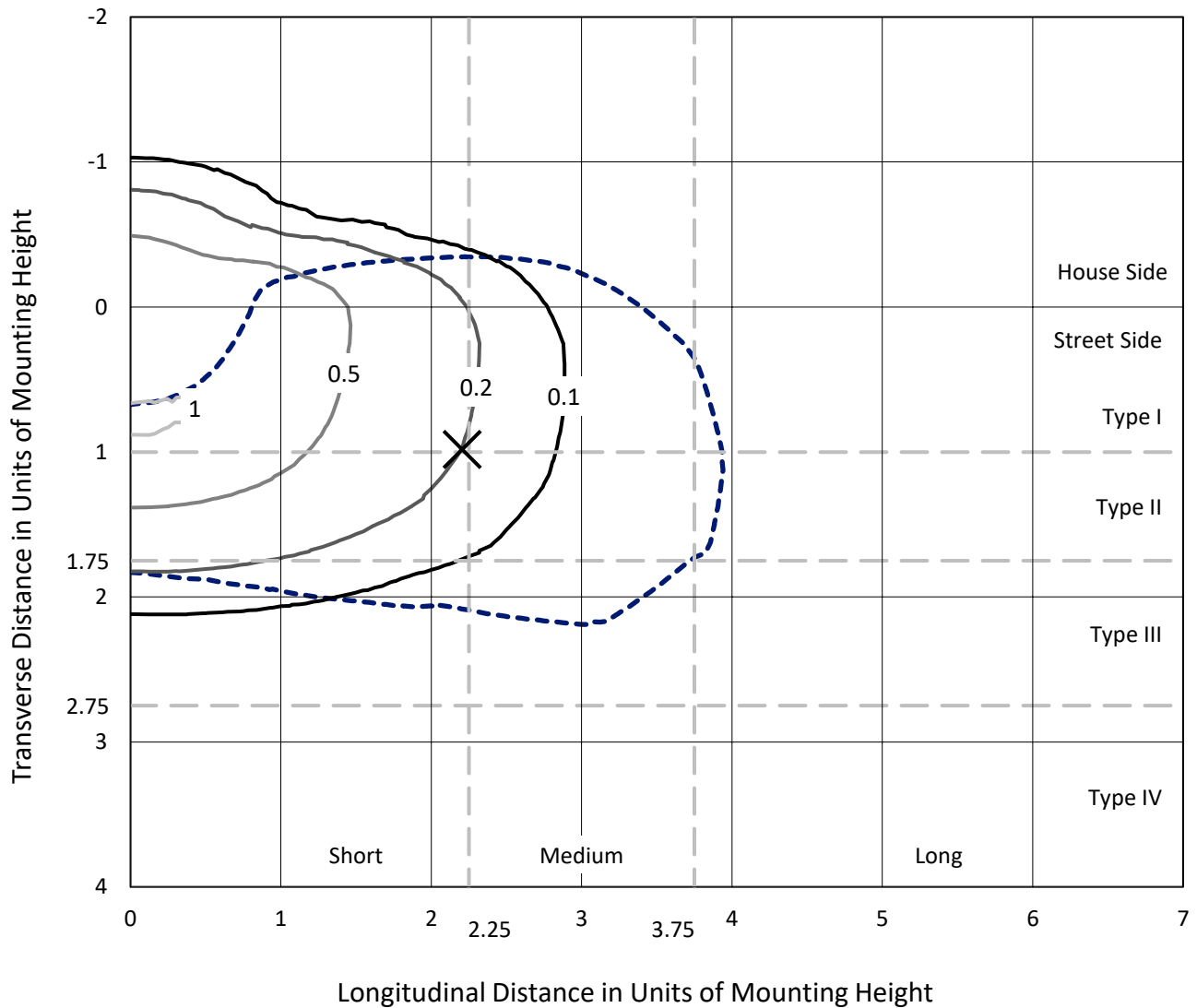
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

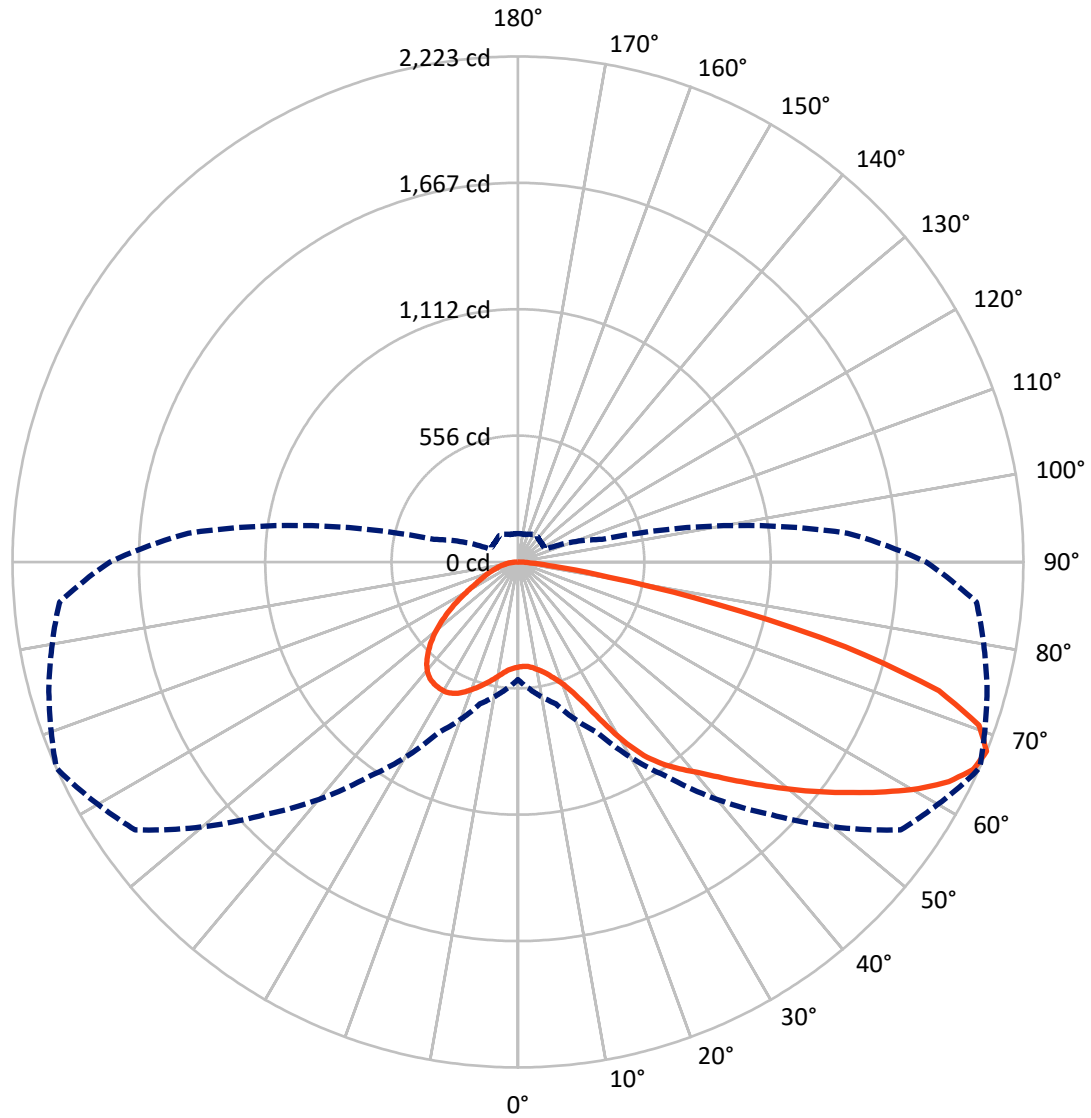
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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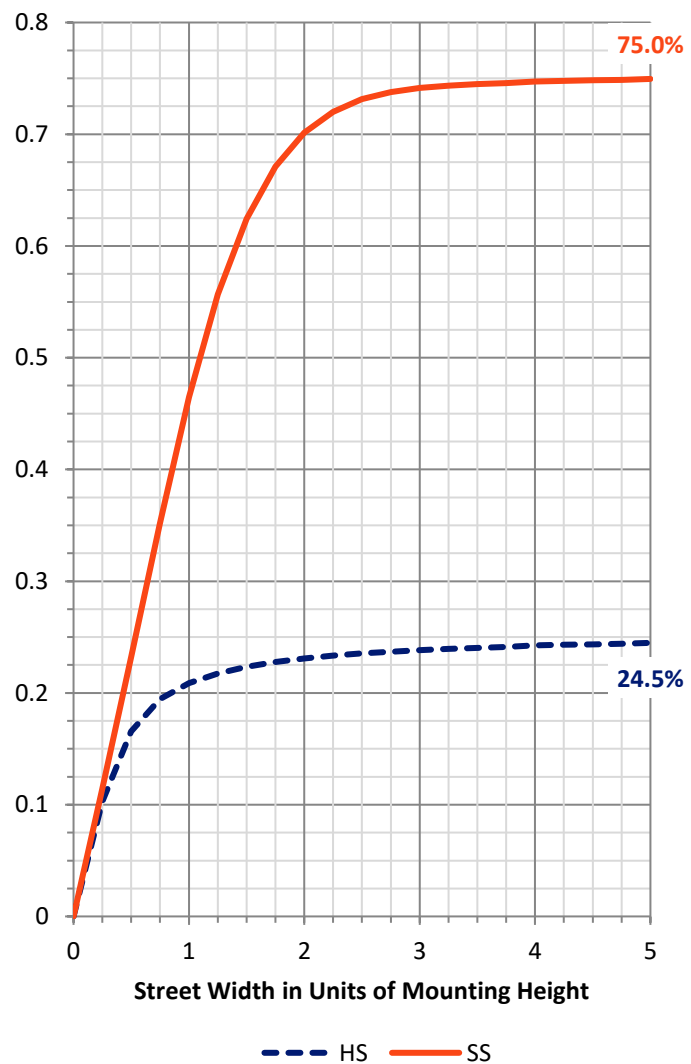
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1035.6	0.0	1035.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	3129.4	0.0	3129.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	4165.0	0.0	4165.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	1.1
10°-20°	151.3	3.6
20°-30°	291.7	7.0
30°-40°	511.4	12.3
40°-50°	760.3	18.3
50°-60°	963.7	23.1
60°-70°	943.0	22.6
70°-80°	449.8	10.8
80°-90°	48.1	1.2
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°	4165.0	100.0
0°-180°	4165.0	100.0

**Coefficient of Utilization**



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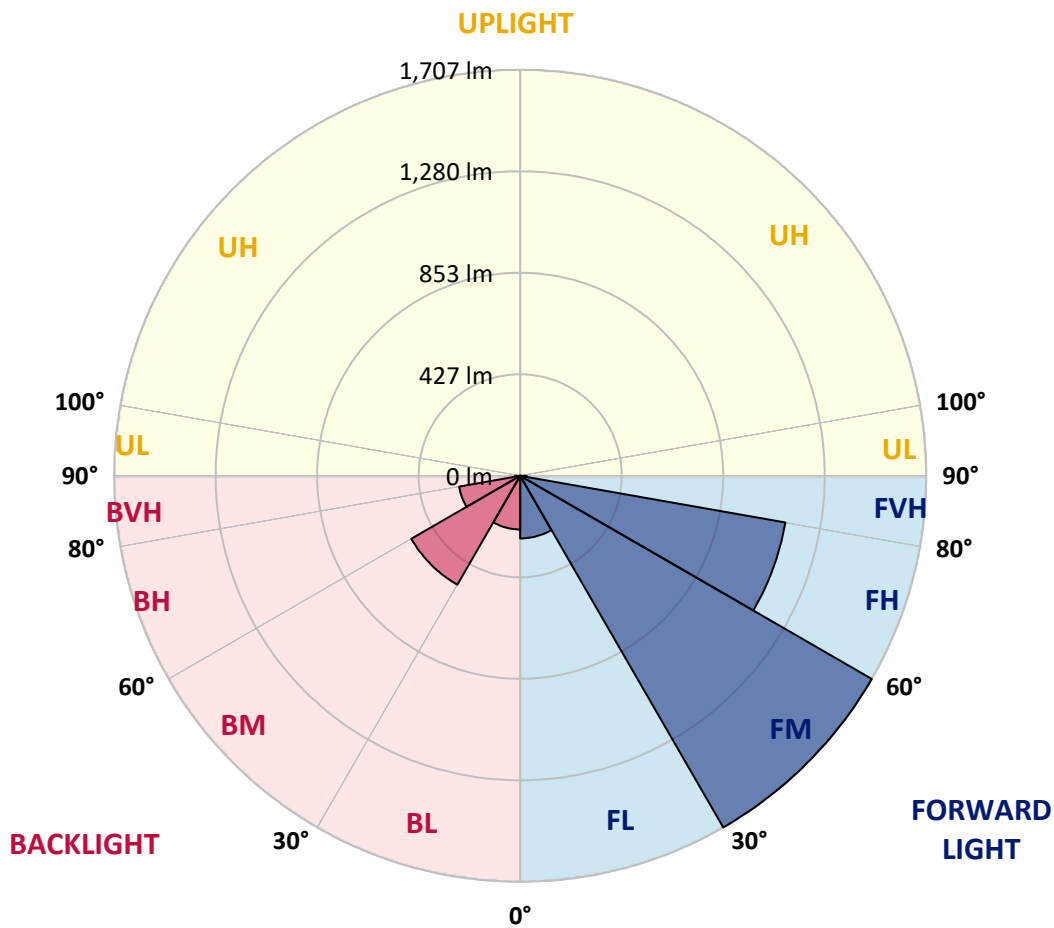
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.2	6.3			
FM (30°-60°)	1706.8	41.0			
FH (60°-80°)	1132.2	27.2			G1/1800
FVH (80°-90°)	27.3	0.7			G1/100
BL (0°-30°)	225.6	5.4	B1/500		
BM (30°-60°)	528.6	12.7	B1/1000		
BH (60°-80°)	260.6	6.3	B1/500		G1/500
BVH (80°-90°)	20.8	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
2.5°	457.1	459.8	459.1	458.0	457.8	458.2	458.9	459.5	459.3	460.4	462.2
5°	455.8	458.5	458.2	458.2	459.1	460.9	462.0	463.0	462.0	463.3	465.7
7.5°	456.7	458.7	459.5	460.4	462.6	465.9	468.5	470.9	469.6	471.1	474.2
10°	467.9	469.4	470.3	470.3	471.8	475.5	478.1	482.5	481.4	483.8	487.8
12.5°	488.2	489.7	489.7	488.9	490.0	492.4	493.2	498.1	496.1	500.0	504.0
15°	513.2	516.2	513.8	512.3	512.7	515.1	514.9	518.6	516.7	519.9	523.4
17.5°	540.7	544.7	540.7	540.5	539.6	542.3	542.5	545.8	542.3	544.7	547.1
20°	573.3	578.8	575.5	576.6	574.7	575.7	576.8	581.7	576.2	577.9	577.3
22.5°	619.3	625.9	622.4	626.5	625.2	624.3	624.1	632.6	624.1	624.8	618.4
25°	686.3	694.1	688.0	693.7	693.7	696.5	699.8	710.8	696.5	692.4	676.0
27.5°	785.2	793.0	781.0	784.5	783.4	790.4	786.9	814.1	798.7	792.0	758.9
30°	904.2	918.2	895.5	894.6	893.5	904.6	909.7	927.6	912.1	905.3	865.5
32.5°	1032.9	1047.5	1020.4	1012.5	1008.4	1015.2	1011.0	1025.4	1014.7	1004.2	955.0
35°	1169.0	1183.4	1157.6	1142.3	1125.7	1111.4	1096.6	1100.3	1090.2	1074.2	1023.3
37.5°	1297.7	1324.2	1296.8	1280.4	1249.7	1222.0	1180.4	1163.1	1153.7	1139.0	1087.6
40°	1428.8	1443.9	1423.1	1409.1	1375.8	1332.2	1265.7	1229.2	1216.5	1202.3	1158.7
42.5°	1525.3	1539.7	1528.5	1518.9	1492.9	1442.3	1356.3	1310.6	1292.2	1276.2	1239.2
45°	1601.8	1612.6	1605.6	1609.1	1597.9	1548.9	1450.2	1397.9	1378.9	1359.4	1330.3
47.5°	1632.7	1644.1	1655.2	1676.0	1695.1	1659.0	1551.1	1492.4	1472.3	1452.4	1423.7
50°	1629.2	1640.8	1673.2	1717.4	1776.5	1764.4	1657.4	1593.1	1574.5	1551.7	1525.3
52.5°	1601.2	1614.3	1655.9	1729.4	1823.5	1843.4	1765.8	1697.0	1679.5	1652.4	1625.9
55°	1527.7	1535.5	1597.9	1702.1	1834.7	1898.6	1871.9	1807.8	1790.3	1752.4	1723.5
57.5°	1391.3	1402.7	1493.5	1628.3	1806.7	1936.0	1965.1	1924.2	1907.3	1852.8	1822.6
60°	1213.4	1231.6	1335.5	1504.5	1735.3	1935.8	2049.8	2038.6	2024.6	1951.8	1920.2
62.5°	1012.1	1033.1	1133.1	1329.4	1610.6	1880.9	2102.8	2134.5	2127.3	2043.0	2002.7
65°	777.3	791.7	891.3	1102.9	1416.5	1762.9	2108.9	2199.9	2201.2	2112.4	2045.9
67.5°	517.5	559.1	645.6	827.6	1156.5	1570.1	2055.0	2210.6	2223.3	2136.2	2042.2
70°	252.5	307.2	391.9	537.9	827.6	1274.5	1914.3	2122.7	2150.9	2066.6	1895.1
72.5°	104.8	122.5	168.7	265.4	475.1	860.0	1631.6	1884.1	1936.4	1831.2	1593.3
75°	70.7	76.6	96.5	136.1	216.4	424.1	1176.7	1404.9	1489.1	1383.0	1130.5
77.5°	54.5	58.2	70.2	95.2	128.7	160.4	629.8	846.7	890.2	824.1	588.2
80°	42.9	45.7	52.5	69.4	91.3	85.8	214.7	383.6	408.8	342.9	189.1
82.5°	37.2	38.3	37.6	47.0	60.6	50.1	70.5	141.6	156.2	113.4	61.7
85°	26.9	30.0	31.3	29.1	32.2	25.4	28.9	50.1	55.1	49.2	34.8
87.5°	10.9	16.2	19.9	18.8	11.8	7.2	9.0	14.7	16.9	18.4	11.4
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°	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0	462.0
2.5°	462.4	463.9	465.0	466.3	467.2	468.5	471.1	472.7	472.9	474.0	473.8
5°	466.5	468.7	471.1	474.6	478.6	481.9	486.9	490.4	491.7	492.8	492.6
7.5°	475.5	478.6	483.0	489.1	494.8	499.2	505.3	509.4	513.6	515.1	515.3
10°	488.9	493.2	499.6	507.9	514.0	519.7	526.1	529.6	533.7	535.5	536.4
12.5°	505.5	510.1	518.4	530.0	535.7	539.6	541.8	541.0	541.8	543.4	543.8
15°	524.5	529.6	539.0	551.5	555.4	551.9	547.1	542.7	542.0	542.5	544.0
17.5°	547.1	550.8	561.7	572.2	569.4	555.0	544.5	537.5	533.9	532.9	534.4
20°	578.6	578.6	587.6	594.1	575.1	550.6	534.2	522.8	515.6	512.5	511.8
22.5°	616.9	613.4	619.1	614.5	574.0	538.3	515.6	495.9	484.9	480.6	479.9
25°	665.5	661.3	659.8	631.3	566.1	518.8	481.9	458.0	448.4	446.0	446.4
27.5°	738.8	728.3	708.4	640.5	551.7	488.2	442.5	420.4	414.9	415.1	415.8
30°	836.4	815.4	766.6	642.1	528.0	444.9	402.2	386.5	383.8	384.9	388.6
32.5°	926.8	906.8	826.1	635.0	491.7	402.4	366.1	355.6	351.7	353.0	354.7
35°	997.7	992.2	881.2	625.2	447.1	362.6	333.7	324.7	317.1	315.3	316.6
37.5°	1064.6	1062.4	922.6	611.4	402.9	334.4	307.7	295.9	284.7	278.6	278.8
40°	1138.1	1136.0	949.7	590.2	363.7	309.9	284.3	268.7	254.9	243.8	244.9
42.5°	1220.9	1208.0	962.6	559.8	330.4	289.1	265.2	244.2	226.1	215.8	216.4
45°	1311.2	1282.1	962.4	521.0	302.4	270.0	244.9	215.1	198.3	188.6	188.2
47.5°	1407.1	1353.0	950.6	478.1	275.3	249.0	213.4	190.6	179.4	173.5	172.2
50°	1506.0	1419.3	930.5	428.9	247.5	225.2	193.7	178.1	169.6	164.1	162.2
52.5°	1599.0	1479.5	906.2	373.1	219.3	202.0	184.9	172.9	163.9	157.8	155.2
55°	1685.4	1531.4	871.8	316.0	196.3	186.4	180.8	170.7	160.4	153.2	150.3
57.5°	1762.3	1565.1	812.5	262.4	179.9	175.7	176.4	167.0	155.2	149.0	145.1
60°	1826.1	1589.8	724.8	212.7	166.5	165.2	169.6	160.0	146.2	139.2	136.1
62.5°	1864.4	1589.4	617.1	174.2	155.2	155.6	160.6	151.2	137.2	130.6	128.7
65°	1861.2	1550.4	498.9	149.0	144.2	144.6	151.2	141.6	129.8	125.8	125.6
67.5°	1795.3	1455.4	382.7	132.6	132.2	134.1	141.8	135.0	125.2	124.7	125.4
70°	1616.9	1258.3	275.7	119.5	119.7	122.5	132.6	130.9	122.8	123.6	123.4
72.5°	1296.6	959.4	185.1	105.7	105.9	110.5	123.9	127.6	120.4	132.0	133.7
75°	863.5	598.3	119.0	91.0	91.3	97.2	116.2	121.2	113.8	131.5	132.6
77.5°	414.9	268.9	86.2	76.6	76.6	82.1	100.4	108.5	96.9	102.2	93.7
80°	143.3	101.1	67.8	61.7	60.4	64.1	84.7	94.1	83.6	77.0	72.2
82.5°	56.5	52.5	54.5	47.9	43.5	46.0	65.9	77.7	61.5	55.6	55.4
85°	32.4	34.1	38.5	31.7	25.2	28.2	48.4	55.8	46.4	40.9	41.8
87.5°	8.8	12.0	17.7	16.4	11.4	12.0	23.0	30.9	26.7	20.6	21.2
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)