

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: P526511

Luminaire Tested: **GALN-SA1C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4438 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

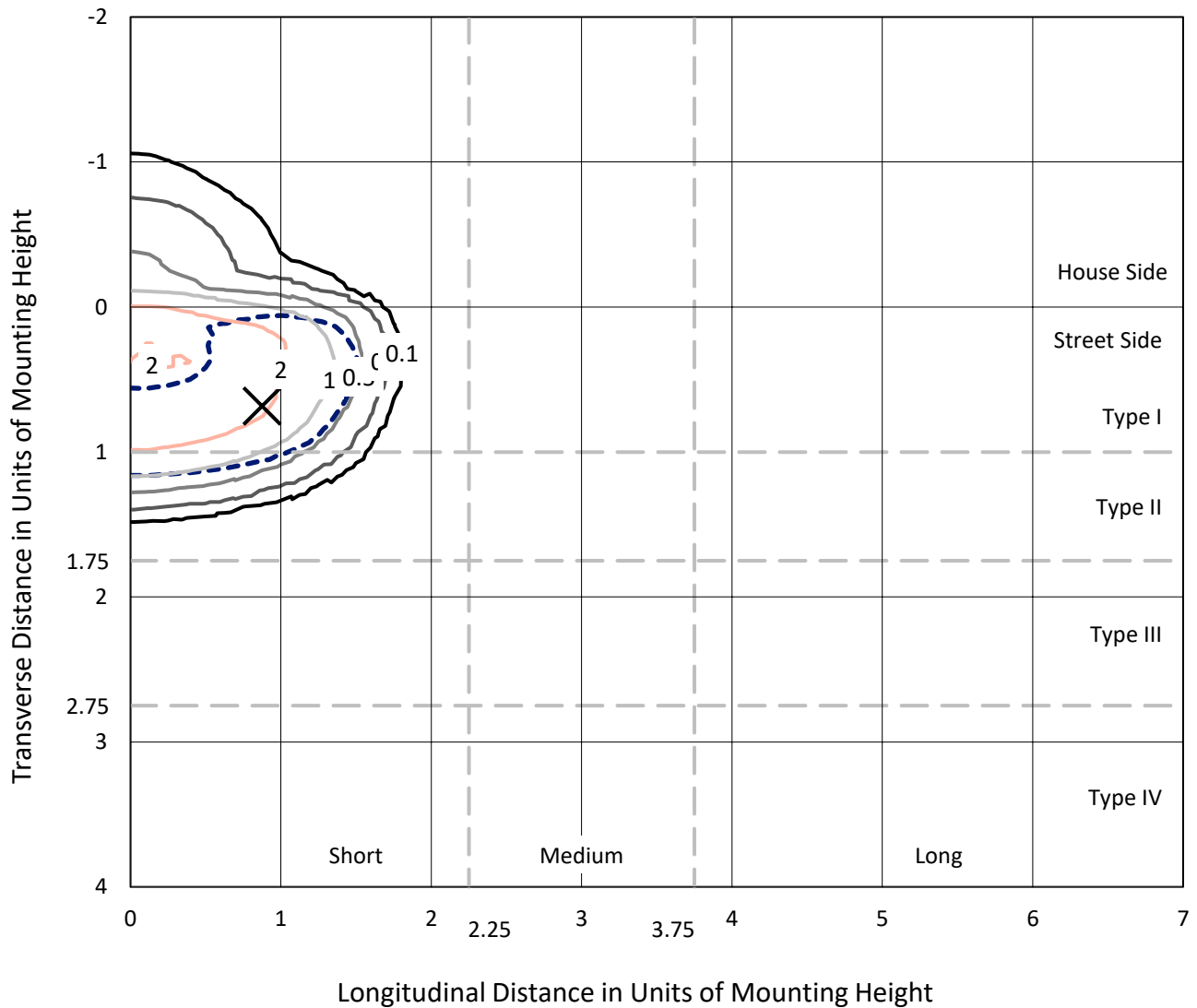
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

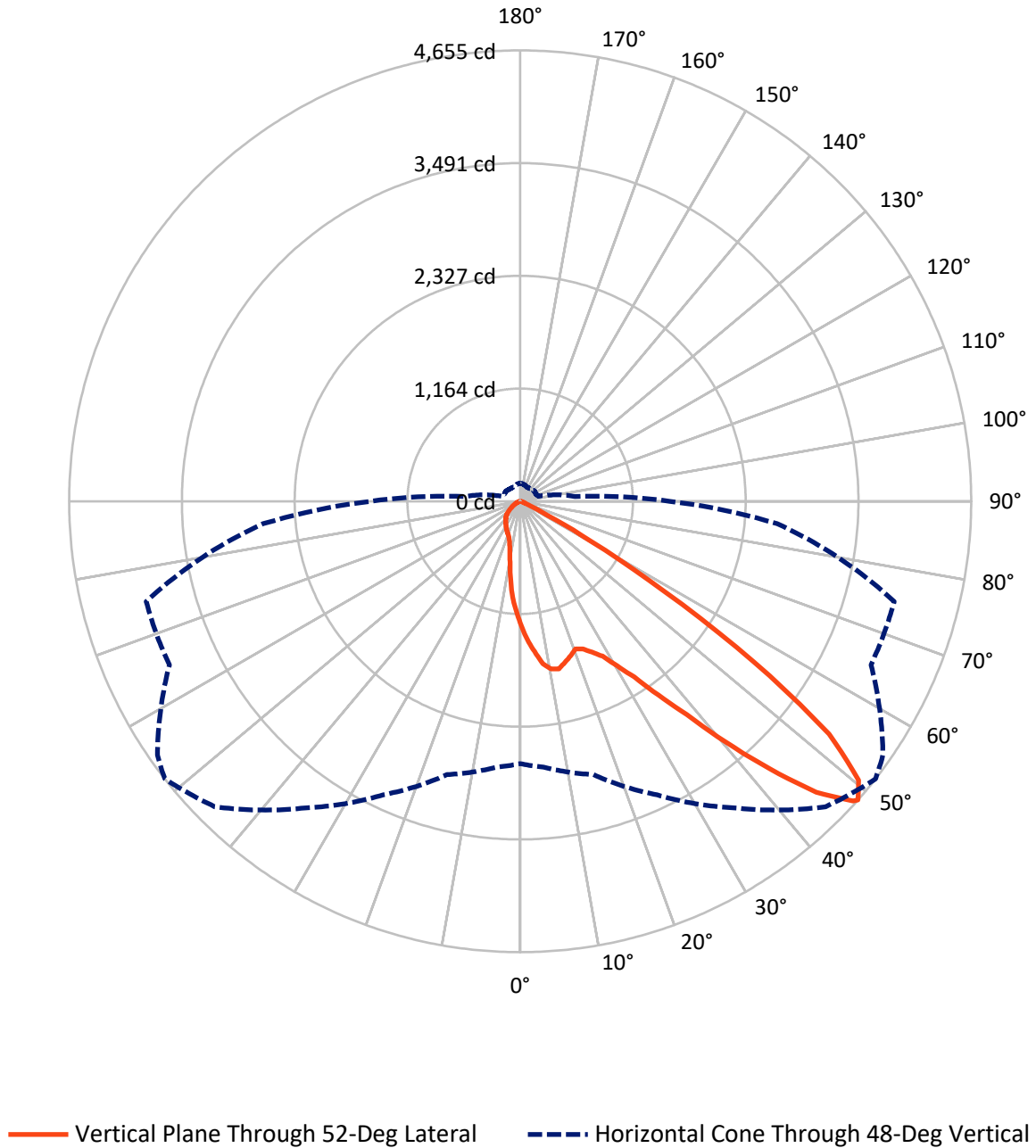
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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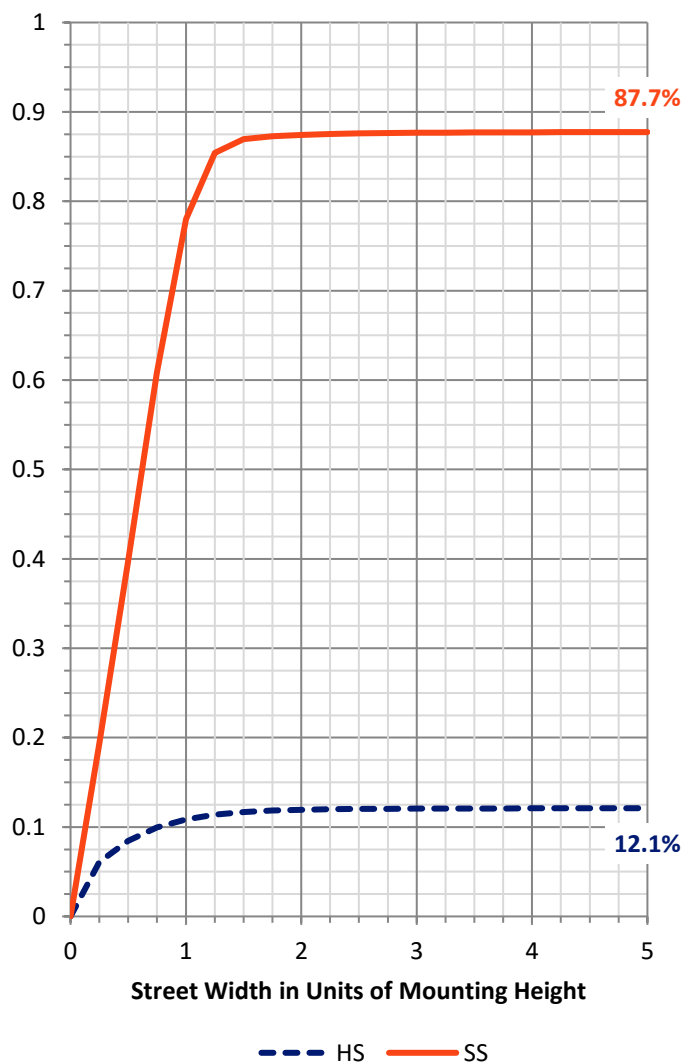
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	540.4	0.0	540.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	3897.6	0.0	3897.6
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	4438.0	0.0	4438.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	2.6
10°-20°	306.6	6.9
20°-30°	523.4	11.8
30°-40°	963.9	21.7
40°-50°	1496.9	33.7
50°-60°	900.9	20.3
60°-70°	104.2	2.3
70°-80°	20.2	0.5
80°-90°	4.6	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°	4438.0	100.0
0°-180°	4438.0	100.0

**Coefficient of Utilization**



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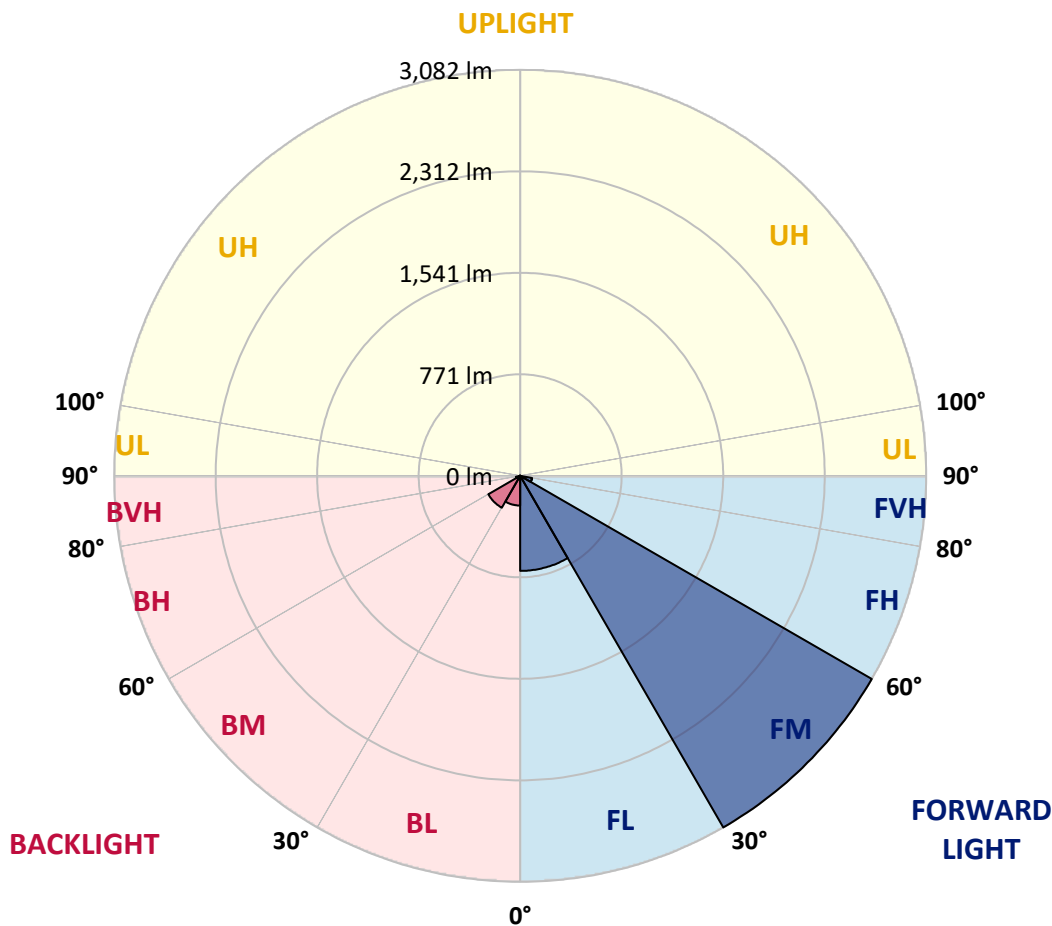
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.6	16.3			
FM (30°-60°)	3082.1	69.4			
FH (60°-80°)	91.8	2.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	225.7	5.1	B1/500		
BM (30°-60°)	279.6	6.3	B1/1000		
BH (60°-80°)	32.6	0.7	B0/110		G0/110
BVH (80°-90°)	2.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1553.3	1517.8	1521.0	1497.7	1484.1	1462.1	1432.4	1426.5	1394.2	1350.2	1305.6
5°	1693.1	1684.7	1695.7	1662.0	1663.3	1627.1	1557.2	1558.5	1484.1	1412.3	1343.1
7.5°	1702.1	1682.7	1693.7	1723.5	1741.0	1734.5	1695.0	1660.7	1590.2	1484.8	1383.8
10°	1524.2	1561.1	1572.8	1621.9	1691.8	1765.5	1761.0	1763.0	1704.1	1566.3	1418.8
12.5°	1417.5	1392.9	1432.4	1462.1	1567.6	1710.6	1775.9	1790.1	1794.7	1645.2	1453.7
15°	1369.0	1369.0	1375.4	1383.8	1460.2	1592.2	1725.4	1766.8	1864.5	1748.7	1508.7
17.5°	1399.4	1398.1	1407.1	1389.7	1418.1	1519.7	1678.9	1726.1	1942.8	1850.3	1552.0
20°	1491.9	1496.4	1490.6	1440.1	1442.1	1518.4	1627.1	1701.5	1995.9	1938.3	1609.6
22.5°	1620.6	1623.2	1590.2	1535.2	1519.1	1556.6	1656.9	1713.8	2038.6	2043.7	1627.1
25°	1769.4	1759.1	1752.6	1675.0	1625.8	1658.1	1724.1	1757.1	2065.1	2134.3	1676.9
27.5°	1975.8	1955.1	1915.6	1846.4	1810.2	1764.3	1811.5	1865.8	2140.8	2261.1	1731.3
30°	2280.5	2262.4	2185.4	2096.1	2001.0	1955.7	1970.6	2000.4	2277.3	2408.0	1803.1
32.5°	2739.2	2701.0	2589.8	2419.6	2290.2	2165.4	2161.5	2193.2	2399.6	2611.1	1888.5
35°	3244.5	3232.8	3069.2	2893.8	2643.5	2450.7	2453.9	2470.7	2633.8	2877.7	2000.4
37.5°	3580.3	3644.3	3540.1	3351.9	3141.6	2866.0	2796.1	2802.0	2955.3	3193.4	2202.2
40°	3839.7	3785.3	3797.6	3753.6	3610.0	3422.4	3267.8	3237.4	3327.3	3542.7	2402.8
42.5°	3726.5	3729.1	3804.8	3908.9	3944.5	3930.9	3773.0	3715.5	3645.6	3828.7	2593.6
45°	3406.9	3473.5	3571.8	3847.4	4089.4	4316.5	4285.4	4189.7	3865.6	4055.1	2703.6
47.5°	2897.1	2894.5	3055.6	3414.0	3951.6	4483.4	4624.4	4557.2	4021.5	4029.9	2681.0
48°	2708.8	2755.4	2921.7	3343.5	3864.3	4458.8	4654.9	4570.1	3995.0	3996.2	2661.6
50°	2002.3	1993.9	2200.9	2718.5	3451.5	4189.7	4526.8	4592.7	3994.3	3826.1	2525.7
52.5°	1057.8	1094.0	1244.7	1709.3	2440.3	3428.9	3993.0	4095.9	3853.3	3547.9	2330.3
55°	449.6	406.3	522.1	771.8	1372.8	2290.9	2929.4	3158.4	3258.1	3139.7	2038.6
57.5°	160.4	175.3	201.9	290.5	577.1	1253.8	1746.8	1924.7	2257.2	2303.8	1389.0
60°	102.9	104.8	113.2	133.3	216.7	483.3	828.8	970.4	1121.2	1157.4	648.3
62.5°	79.6	80.2	84.1	87.3	102.9	187.6	311.2	368.8	383.0	329.3	170.1
65°	66.6	67.3	68.6	68.6	73.1	88.0	108.7	119.7	116.5	115.2	96.4
67.5°	51.1	52.4	55.0	55.0	57.6	53.7	60.2	64.0	72.5	88.0	82.2
70°	40.1	40.8	42.7	44.0	44.0	38.8	43.3	47.2	53.1	65.3	64.7
72.5°	31.1	32.3	33.6	33.6	31.7	26.5	31.1	34.3	38.2	45.3	44.0
75°	23.9	23.9	24.6	20.1	15.5	13.6	18.8	22.6	28.5	29.8	24.6
77.5°	6.5	7.1	6.5	5.8	6.5	9.7	12.3	14.2	18.1	18.1	16.2
80°	0.0	0.6	1.9	3.9	6.5	9.1	11.0	12.3	14.2	15.5	14.9
82.5°	0.0	0.6	1.9	3.9	5.8	7.1	9.7	10.4	11.6	13.6	13.6
85°	0.0	0.6	1.3	2.6	3.9	4.5	4.5	3.9	3.9	3.2	2.6
87.5°	0.0	0.0	0.6	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9
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°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1288.1	1268.0	1237.6	1189.8	1143.8	1114.1	1085.6	1053.9	1036.4	1035.1	1025.4
5°	1303.6	1258.3	1185.9	1103.7	1015.7	940.0	863.7	813.9	769.2	744.6	740.1
7.5°	1312.0	1253.2	1136.1	998.3	848.2	724.6	639.2	576.4	551.9	533.7	533.1
10°	1329.5	1244.1	1061.7	858.5	672.8	548.0	489.1	460.6	447.0	441.9	434.1
12.5°	1342.4	1227.3	985.3	714.9	531.8	454.2	428.3	421.8	422.5	425.1	421.8
15°	1360.5	1212.4	882.4	586.8	446.4	408.9	408.9	410.2	419.2	420.5	419.9
17.5°	1359.3	1183.3	776.3	483.3	394.6	389.5	391.4	403.7	409.5	411.5	406.9
20°	1374.8	1156.1	667.0	412.8	365.5	373.3	386.2	389.5	396.6	397.9	392.7
22.5°	1370.3	1088.2	565.4	357.1	343.5	358.4	371.4	375.2	373.3	369.4	368.8
25°	1361.8	1030.0	472.3	320.2	327.4	343.5	355.8	348.7	344.8	345.5	346.1
27.5°	1347.0	956.2	395.3	294.4	305.4	329.3	328.7	326.1	329.9	326.7	329.9
30°	1344.4	882.4	331.9	271.1	289.2	306.7	308.0	312.5	317.0	311.2	317.0
32.5°	1348.3	801.6	286.6	256.8	279.5	280.1	294.4	298.9	295.7	282.7	284.0
35°	1378.0	739.5	253.6	249.1	264.0	264.6	278.2	272.4	258.1	250.4	254.9
37.5°	1440.8	687.7	238.1	242.0	243.3	251.7	252.3	240.7	242.0	241.3	243.9
40°	1521.0	648.3	227.1	235.5	234.2	240.0	216.7	223.2	229.0	231.0	232.3
42.5°	1576.0	619.8	220.0	225.1	222.6	212.2	199.3	205.7	210.3	217.4	218.7
45°	1600.6	597.1	211.6	207.0	207.0	188.3	183.1	184.4	194.7	202.5	201.2
47.5°	1560.5	575.1	196.7	183.1	187.6	172.1	166.3	166.3	177.3	187.0	185.0
48°	1544.9	566.1	197.3	177.9	181.1	169.5	163.7	162.4	174.7	183.7	183.7
50°	1467.9	532.4	180.5	163.7	157.2	155.9	152.0	153.3	161.1	169.5	169.5
52.5°	1317.9	460.0	152.7	140.4	128.7	136.5	138.4	135.9	139.7	147.5	146.9
55°	1099.8	353.2	122.3	116.5	107.4	115.8	119.7	116.5	112.6	118.4	118.4
57.5°	704.5	190.2	97.7	99.0	89.9	98.3	101.6	93.8	86.7	91.2	90.6
60°	317.7	113.9	80.2	78.3	72.5	82.2	87.3	78.3	68.6	71.8	75.0
62.5°	119.0	80.9	60.8	59.5	58.2	67.3	69.9	62.8	53.1	55.0	55.6
65°	87.3	71.2	48.5	44.0	46.6	53.1	51.8	44.6	38.2	38.2	39.5
67.5°	74.4	62.1	39.5	34.3	34.3	34.9	32.3	28.5	26.5	27.8	29.1
70°	58.2	49.2	31.1	26.5	23.9	21.3	18.8	18.1	16.2	18.1	17.5
72.5°	37.5	33.0	23.9	20.1	18.1	14.9	12.3	11.6	9.7	9.1	9.1
75°	20.1	20.1	18.8	16.2	14.2	11.6	9.7	7.8	5.2	3.9	3.9
77.5°	14.2	15.5	16.8	15.5	12.9	9.7	7.8	5.2	2.6	1.3	1.3
80°	13.6	15.5	16.8	14.9	12.9	9.7	7.1	3.9	1.9	0.6	0.6
82.5°	12.3	14.2	15.5	13.6	11.6	8.4	6.5	3.9	1.9	0.6	0.6
85°	2.6	3.2	3.9	3.9	4.5	5.8	4.5	3.2	1.3	0.6	0.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	0.6	0.6	0.6
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)