

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: P270082

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-AFL-7027-600  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3670.3 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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: 25 FT

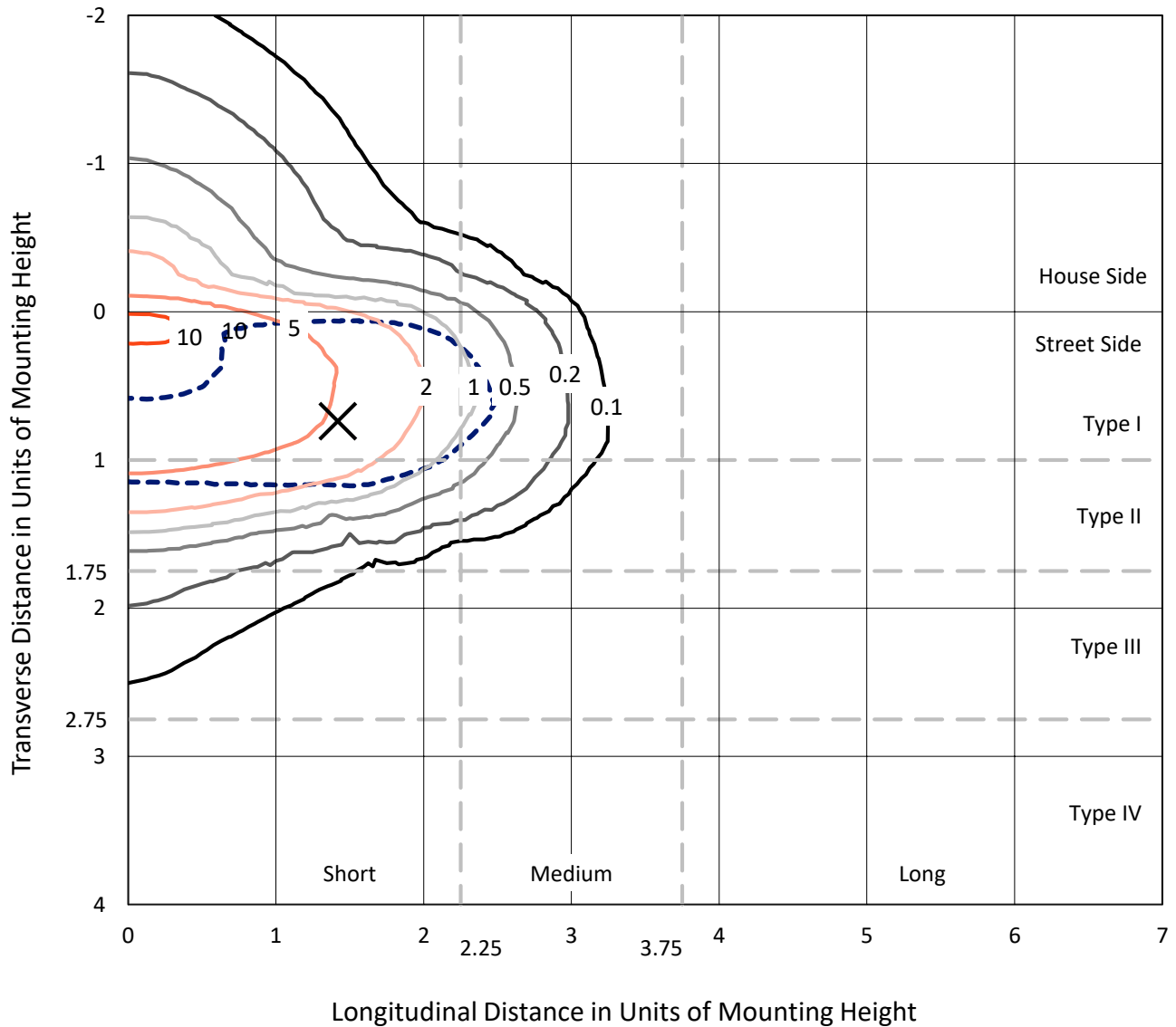


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### Iso-Footcandle Lines of Horizontal Illumination

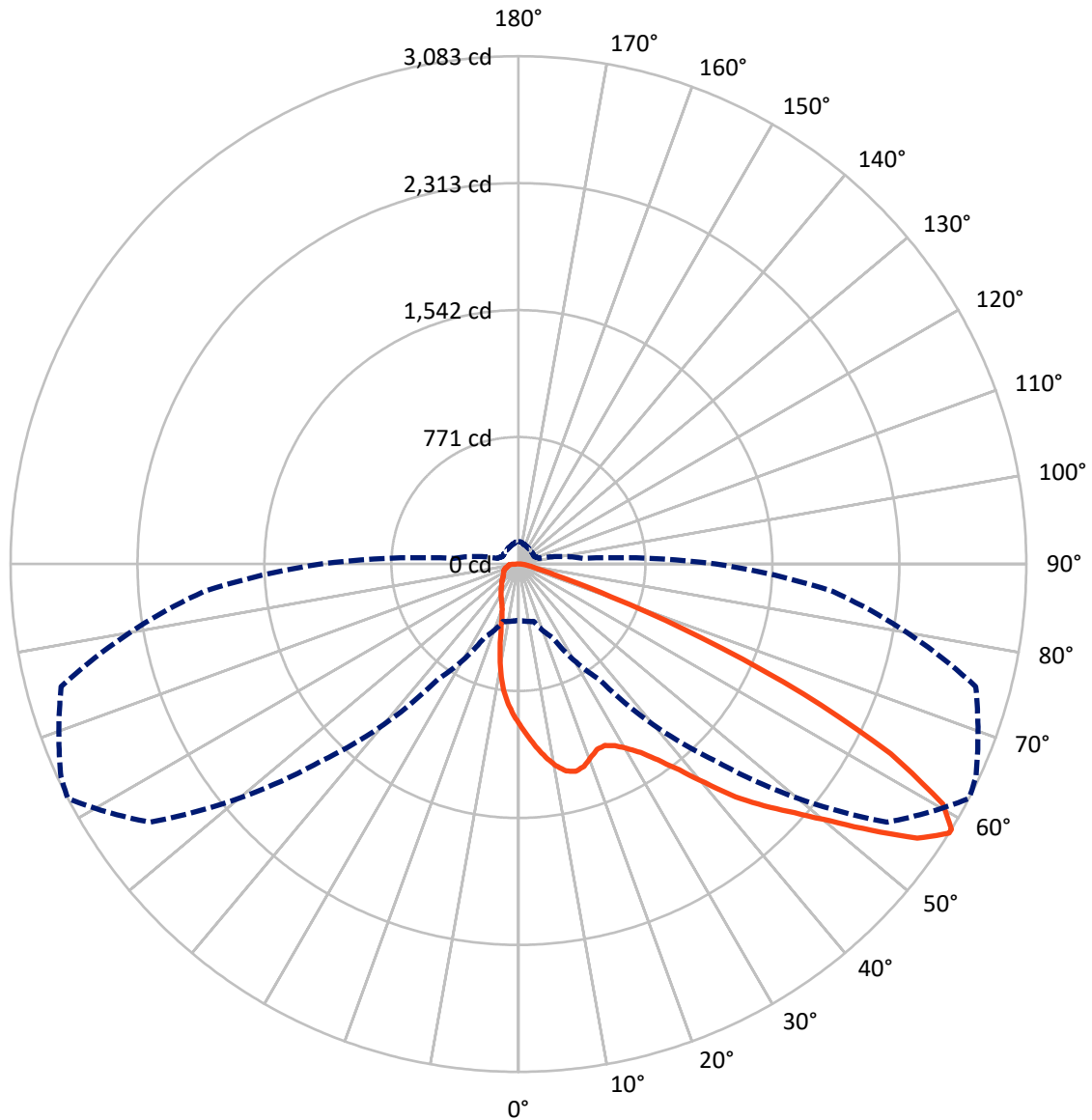
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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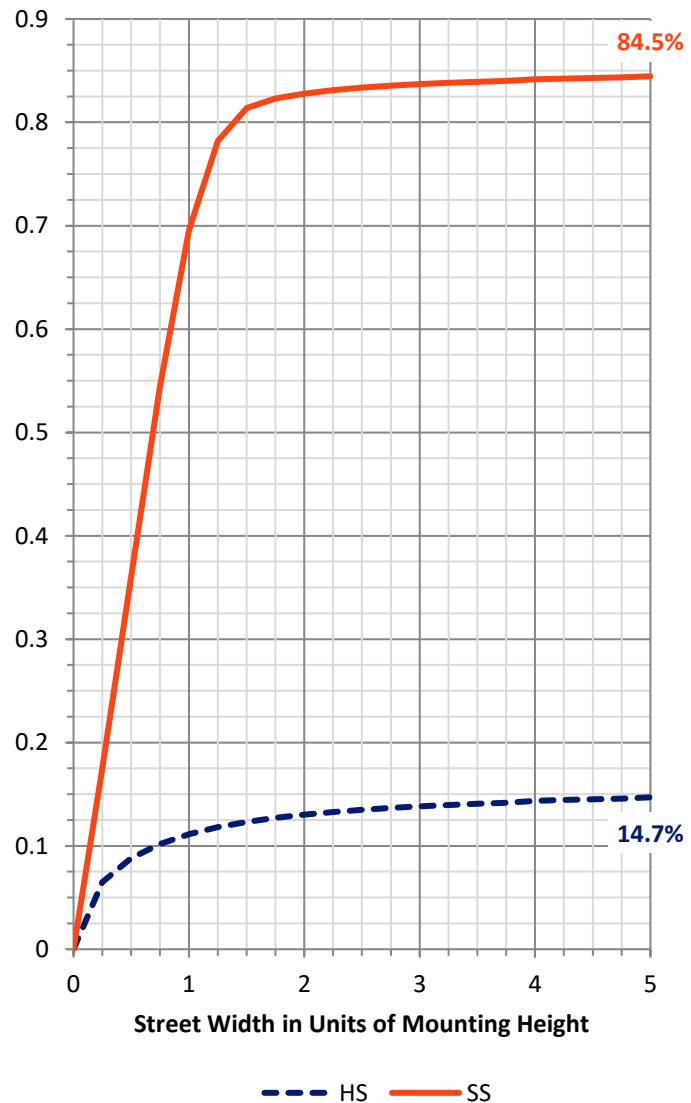
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	559.7	0.0	559.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	3110.5	0.0	3110.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	3670.3	0.0	3670.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	2.4
10°-20°	222.9	6.1
20°-30°	360.3	9.8
30°-40°	572.0	15.6
40°-50°	836.9	22.8
50°-60°	875.3	23.8
60°-70°	517.1	14.1
70°-80°	145.7	4.0
80°-90°	52.9	1.4
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°	3670.3	100.0
0°-180°	3670.3	100.0



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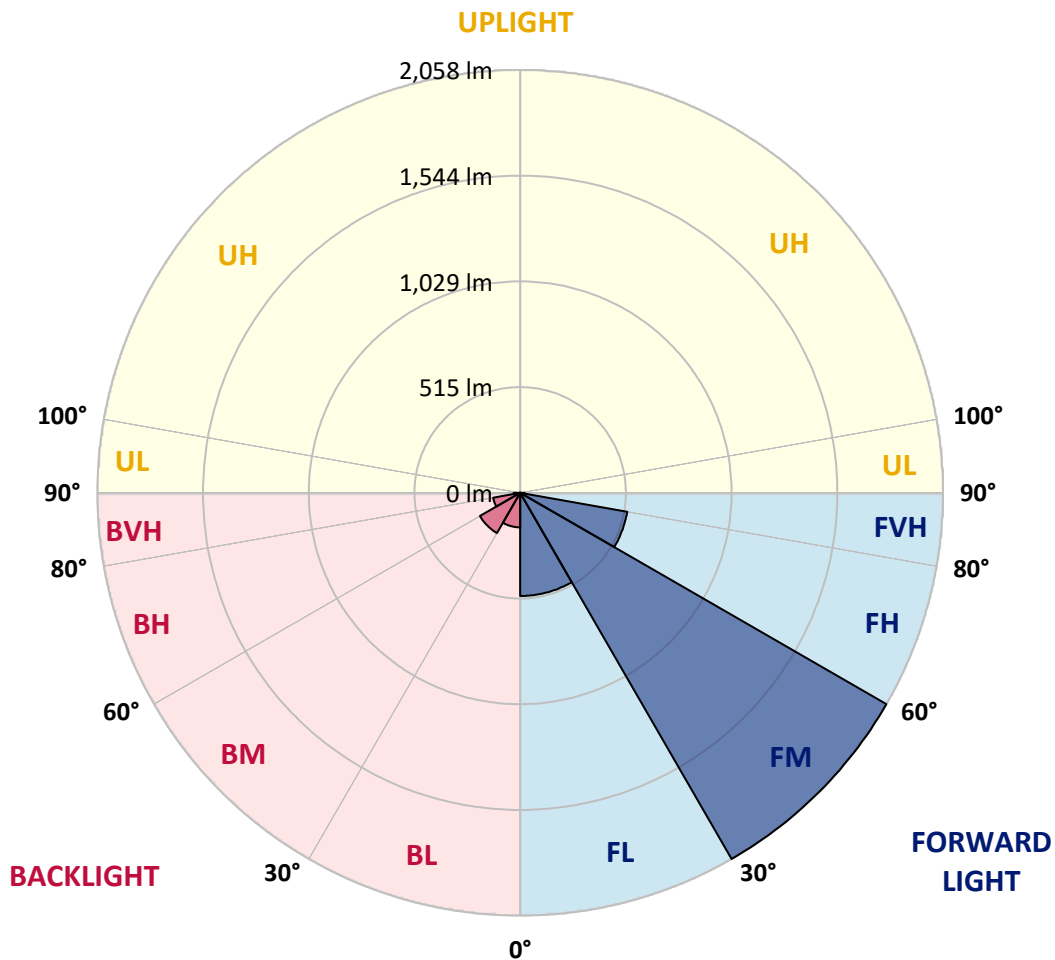
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.1	13.7			
FM	(30°-60°)	2058.3	56.1			
FH	(60°-80°)	529.3	14.4			G0/660
FVH	(80°-90°)	20.9	0.6			G1/100
BL	(0°-30°)	168.2	4.6	B1/500		
BM	(30°-60°)	225.9	6.2	B1/1000		
BH	(60°-80°)	133.6	3.6	B1/500		G1/500
BVH	(80°-90°)	32.0	0.9			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°	62.5°	65°	75°	85°
0°	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0
2.5°	1114.1	1105.0	1099.3	1094.3	1087.8	1073.7	1055.0	1043.0	1037.0	1016.3	992.1
5°	1223.3	1215.3	1209.5	1202.7	1191.0	1169.0	1138.6	1114.4	1102.5	1061.3	1012.6
7.5°	1197.6	1201.0	1211.2	1229.1	1244.2	1241.3	1214.1	1183.4	1167.6	1110.5	1036.5
10°	1043.6	1049.3	1066.9	1108.5	1176.0	1245.1	1266.2	1245.0	1229.1	1159.0	1061.1
12.5°	1012.6	1012.4	1013.8	1024.9	1065.0	1162.2	1267.9	1289.3	1279.8	1205.3	1086.1
15°	1025.2	1025.5	1024.6	1029.2	1041.7	1080.1	1215.0	1306.4	1313.1	1252.0	1112.0
17.5°	1058.5	1057.6	1053.6	1053.6	1058.0	1073.1	1152.8	1290.5	1321.7	1293.3	1134.7
20°	1114.1	1110.0	1099.5	1089.9	1085.1	1093.1	1127.2	1253.9	1306.9	1329.4	1153.7
22.5°	1181.5	1178.4	1161.3	1140.6	1123.8	1123.6	1140.3	1221.9	1281.5	1363.4	1169.6
25°	1268.6	1263.6	1238.2	1205.0	1175.6	1164.4	1169.0	1220.3	1267.7	1400.5	1183.7
27.5°	1370.8	1361.7	1331.6	1283.9	1240.6	1217.9	1211.2	1248.6	1280.4	1446.2	1203.5
30°	1495.0	1484.4	1445.9	1383.5	1322.5	1285.4	1271.0	1298.5	1322.1	1502.1	1235.0
32.5°	1636.2	1620.9	1576.3	1507.5	1427.4	1370.7	1347.4	1364.5	1383.3	1569.3	1274.7
35°	1831.3	1813.1	1748.7	1653.9	1563.2	1485.3	1448.0	1460.4	1478.7	1669.6	1331.9
37.5°	1964.4	1956.2	1913.4	1824.3	1725.7	1636.0	1578.3	1585.5	1595.9	1794.8	1405.1
40°	1963.2	1966.5	1967.3	1968.2	1901.2	1815.3	1753.2	1745.6	1743.5	1932.4	1488.4
42.5°	1864.9	1878.4	1921.8	2010.1	2051.0	2011.6	1954.7	1932.8	1921.8	2094.5	1576.8
45°	1714.3	1721.6	1803.1	1975.6	2127.6	2206.1	2163.0	2093.8	2074.1	2243.4	1650.0
47.5°	1636.7	1644.7	1696.0	1884.0	2126.8	2363.1	2388.0	2256.3	2221.1	2373.1	1713.2
50°	1451.9	1468.5	1533.1	1724.7	2049.2	2435.4	2623.2	2449.9	2376.9	2499.4	1776.7
52.5°	1112.6	1138.2	1210.6	1462.7	1852.4	2399.6	2811.4	2684.6	2581.5	2630.0	1831.2
55°	701.8	720.8	781.7	1033.0	1481.8	2213.4	2882.8	2938.4	2846.9	2753.7	1878.4
57.5°	381.6	390.0	412.9	570.3	963.9	1801.9	2778.7	3083.0	3045.0	2858.8	1913.9
58°	341.5	347.3	361.4	494.2	854.8	1689.4	2732.6	3083.4	3064.5	2874.2	1916.6
60°	253.4	250.4	237.9	282.1	475.7	1167.1	2453.7	2960.1	3015.9	2893.0	1903.1
62.5°	222.6	215.5	189.8	186.8	231.5	537.7	1877.5	2535.6	2667.4	2785.6	1821.2
65°	209.1	201.6	168.3	157.7	166.9	227.5	1105.9	1901.6	2067.1	2459.6	1611.7
67.5°	199.2	189.2	154.7	140.0	140.7	150.3	443.3	1197.6	1383.8	1867.5	1253.8
70°	189.4	178.7	143.1	126.2	122.2	118.8	176.2	599.5	768.4	1179.6	799.4
72.5°	179.0	168.4	132.9	115.3	107.5	96.6	115.1	245.2	342.5	558.0	362.6
75°	164.0	154.5	122.7	105.6	94.6	79.9	87.0	128.0	153.6	222.3	174.7
77.5°	145.5	137.8	111.3	97.6	83.8	65.0	66.8	88.8	98.5	127.2	103.9
80°	104.6	107.3	99.0	87.8	74.6	52.6	51.3	64.9	70.0	81.7	67.6
82.5°	73.4	75.0	81.9	71.7	61.6	41.5	37.8	45.6	48.7	53.7	36.5
85°	50.7	49.0	56.1	49.9	44.6	27.7	26.0	31.0	32.8	33.4	18.8
87.5°	30.4	30.4	32.5	26.9	24.0	14.4	14.0	17.7	18.8	18.0	10.3
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°	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0	975.0
2.5°	977.4	965.2	939.2	918.2	891.8	864.3	849.0	832.5	821.3	813.1	826.1
5°	984.9	959.9	906.0	854.8	798.3	739.6	695.0	653.5	624.7	606.6	623.6
7.5°	996.7	958.2	872.3	784.8	683.4	585.6	498.0	443.3	411.3	395.6	405.4
10°	1010.2	955.3	832.6	690.0	544.7	421.6	356.2	334.2	326.8	323.9	325.3
12.5°	1021.4	949.5	784.1	575.2	409.1	332.9	314.0	313.5	315.0	315.4	315.9
15°	1029.4	940.9	712.1	455.6	327.2	303.4	302.3	305.3	308.4	309.6	310.2
17.5°	1034.7	923.1	630.6	360.2	293.1	289.0	291.4	295.4	298.5	299.3	300.0
20°	1034.2	897.0	533.7	300.4	274.6	274.6	278.7	281.9	282.1	281.1	281.5
22.5°	1028.8	861.2	439.7	268.6	258.2	261.2	265.4	262.3	250.3	242.3	242.8
25°	1019.8	818.4	359.1	248.4	243.1	248.2	247.0	224.8	207.5	199.8	199.8
27.5°	1011.9	768.1	297.2	230.7	227.8	234.2	212.7	192.7	185.4	181.8	180.6
30°	1006.3	713.6	256.0	213.8	213.4	208.8	184.6	179.0	177.9	174.9	173.8
32.5°	1007.6	658.5	229.5	199.0	200.1	178.7	171.0	172.3	171.2	168.2	166.8
35°	1018.9	606.1	212.3	185.4	181.8	161.4	163.1	165.4	165.1	160.7	159.4
37.5°	1039.4	556.5	200.8	174.3	158.6	152.7	155.5	159.0	158.1	155.2	154.1
40°	1060.8	509.8	191.5	165.4	145.0	147.0	149.4	151.2	152.1	152.9	152.3
42.5°	1081.8	461.1	180.1	156.4	139.3	141.4	142.4	144.4	148.9	152.3	152.1
45°	1094.2	415.3	168.3	143.6	134.7	136.0	135.4	139.1	144.8	150.2	150.3
47.5°	1108.1	379.6	159.0	131.9	130.4	131.3	129.3	133.0	138.2	144.8	145.5
50°	1124.9	358.4	151.5	122.5	124.7	124.7	124.1	127.6	134.7	142.4	143.7
52.5°	1143.8	354.3	145.3	115.8	118.8	118.6	119.0	124.2	132.1	139.6	140.9
55°	1167.0	365.6	138.6	110.8	113.0	113.7	115.5	121.3	128.0	136.5	137.0
57.5°	1193.9	388.3	133.2	106.8	107.9	110.1	112.9	118.2	125.4	134.7	135.4
58°	1198.4	393.2	132.4	106.4	106.8	109.4	112.5	117.7	125.0	135.2	135.6
60°	1198.5	409.3	130.4	104.9	102.9	107.2	110.6	115.8	124.1	136.4	137.6
62.5°	1156.1	409.1	129.1	102.7	98.7	104.0	108.1	114.1	123.2	139.3	141.8
65°	1018.0	371.7	122.5	99.2	95.4	101.3	105.7	112.9	125.6	152.1	153.6
67.5°	796.2	304.7	110.3	94.3	91.1	98.5	104.4	112.7	128.2	155.0	156.1
70°	526.4	228.0	96.7	88.8	86.5	95.2	105.1	118.6	125.3	148.8	146.1
72.5°	273.3	160.1	85.9	81.9	81.5	92.3	115.1	117.9	122.3	140.0	136.5
75°	143.5	111.1	76.4	74.3	75.2	91.5	135.8	114.7	118.6	133.9	140.5
77.5°	87.8	89.7	68.3	67.5	69.2	89.6	135.6	110.8	113.0	123.2	130.4
80°	58.7	72.8	62.1	62.3	63.4	81.9	121.9	104.6	106.4	116.4	123.9
82.5°	37.2	43.0	56.3	59.2	57.7	67.6	103.5	95.2	97.6	133.2	140.9
85°	18.8	26.9	49.0	57.0	52.0	47.3	84.1	83.5	84.7	96.1	100.4
87.5°	8.7	14.8	38.2	49.8	39.3	29.6	61.0	61.8	66.7	68.3	68.3
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)