

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: P199965

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7030-800-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4171.7 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

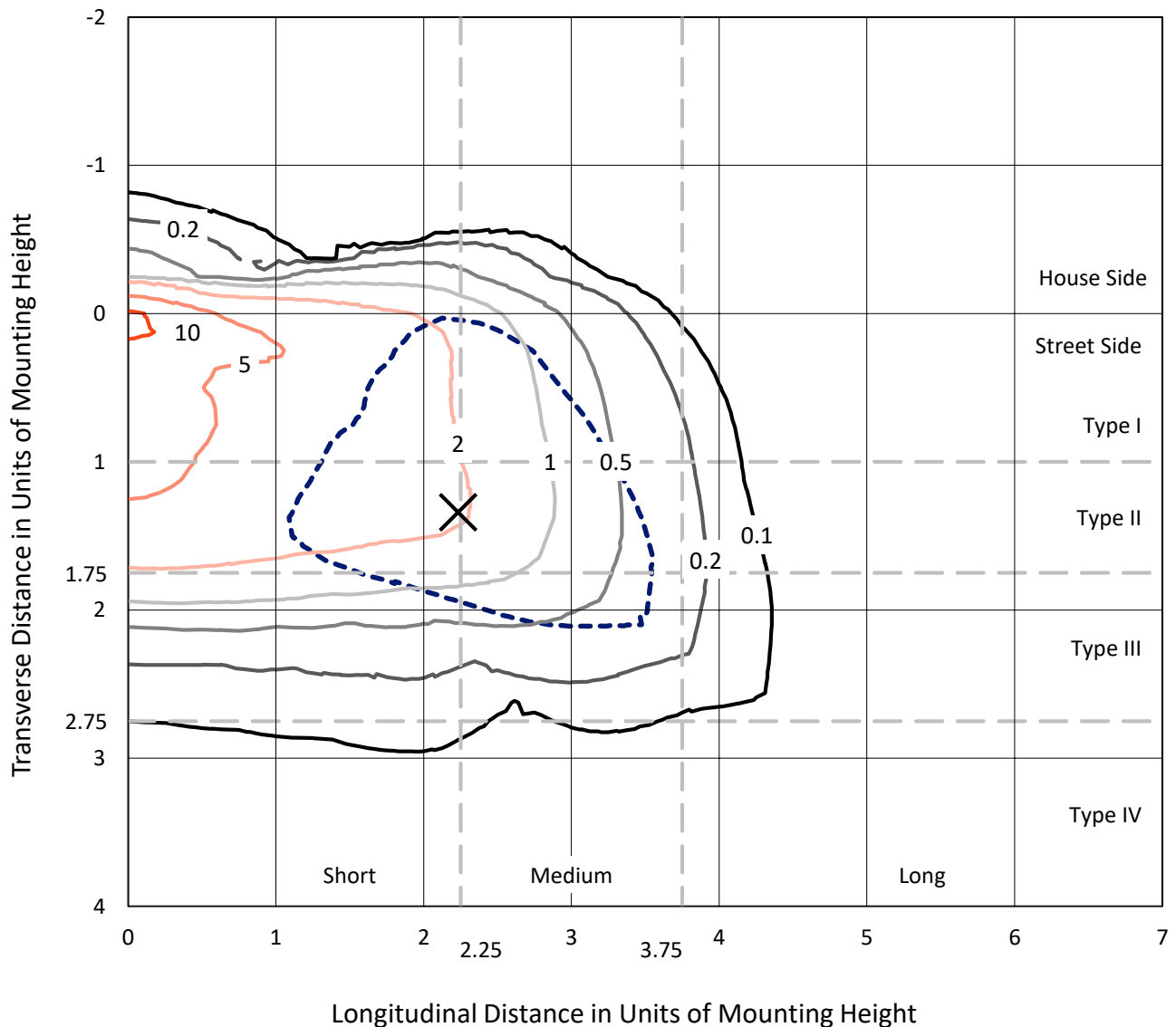
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

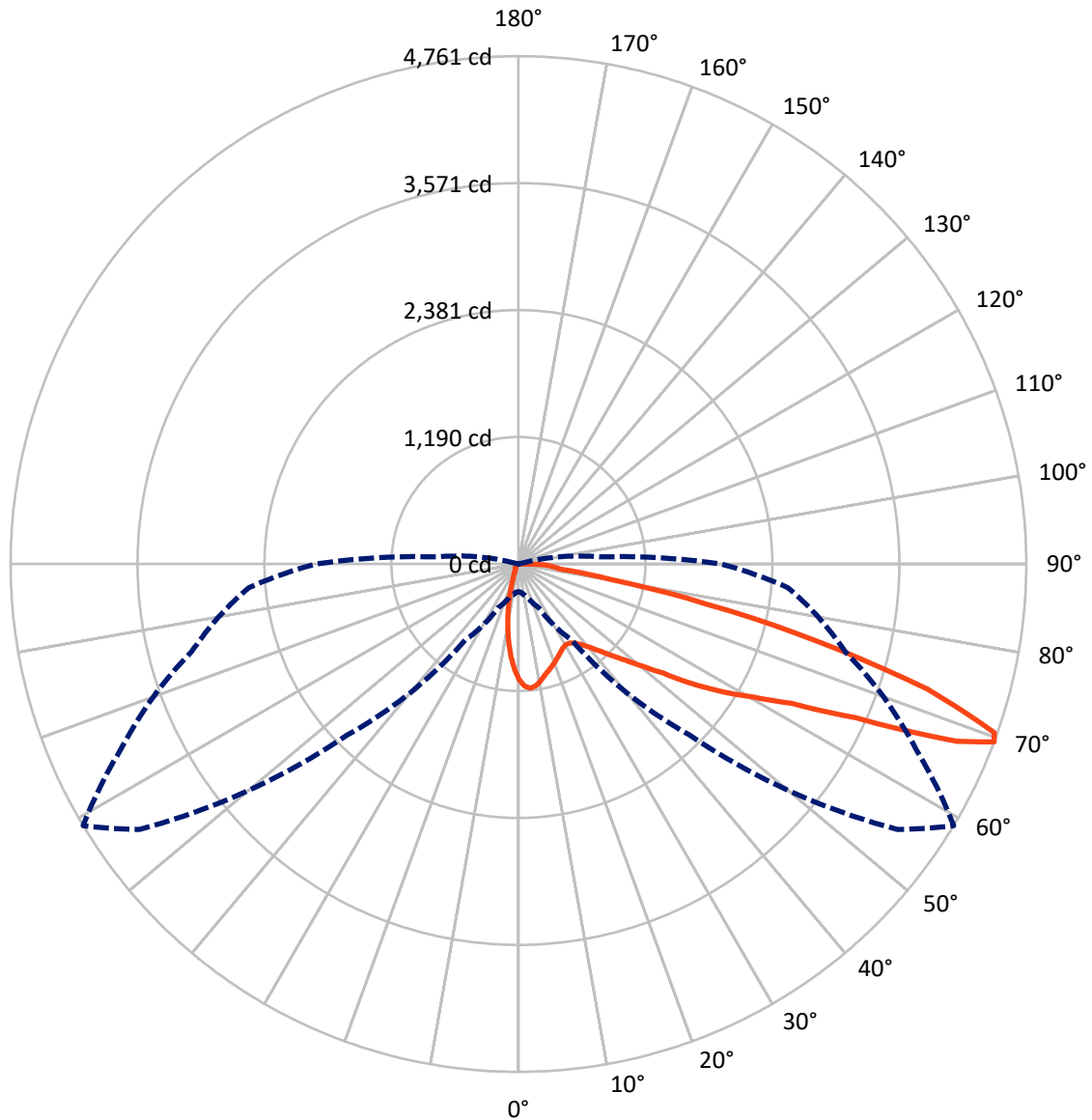


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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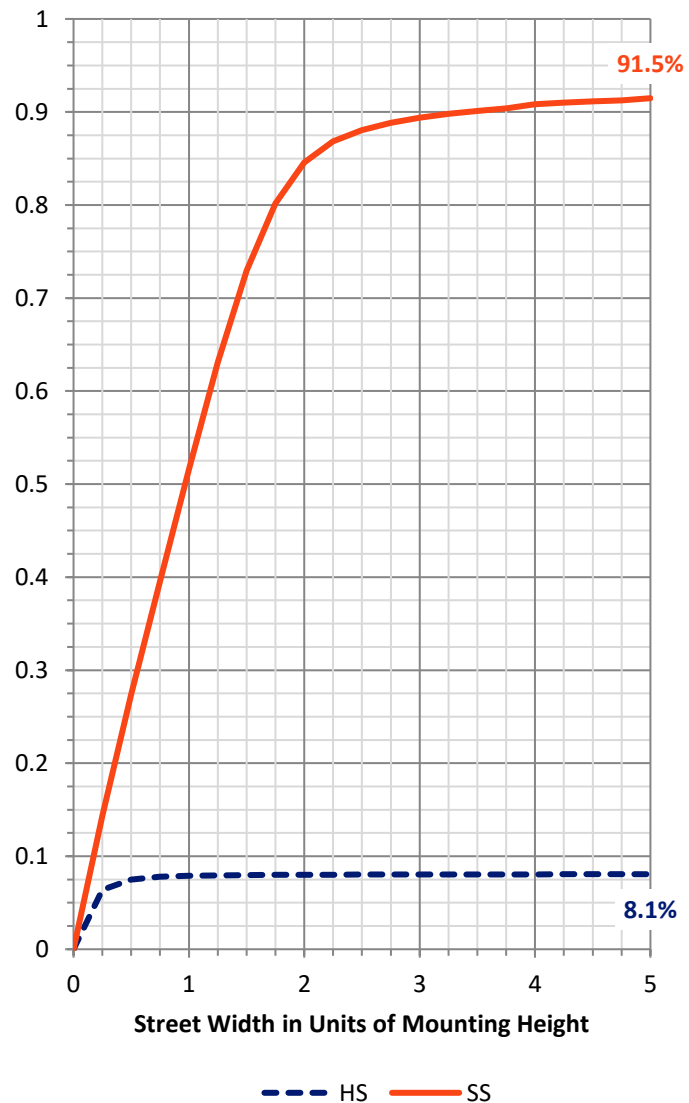
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	339.7	0.0	339.7
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	3832.0	0.0	3832.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	4171.7	0.0	4171.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.1	2.1
10°-20°	182.1	4.4
20°-30°	245.1	5.9
30°-40°	355.8	8.5
40°-50°	592.5	14.2
50°-60°	924.2	22.2
60°-70°	1143.7	27.4
70°-80°	579.6	13.9
80°-90°	60.6	1.5
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°	4171.7	100.0
0°-180°	4171.7	100.0



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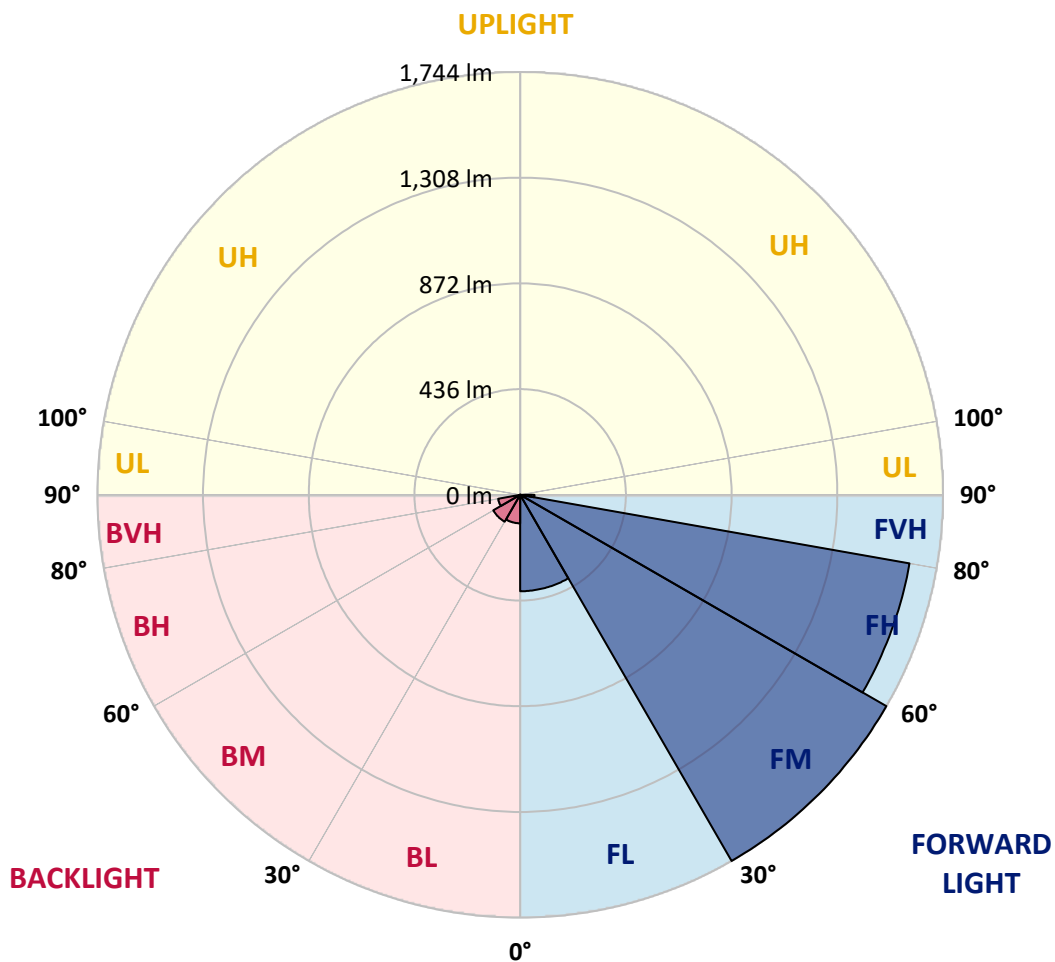
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.7	9.5			
FM	(30°-60°)	1744.5	41.8			
FH	(60°-80°)	1631.0	39.1			G1/1800
FVH	(80°-90°)	58.8	1.4			G1/100
BL	(0°-30°)	117.6	2.8	B1/500		
BM	(30°-60°)	128.0	3.1	B0/220		
BH	(60°-80°)	92.3	2.2	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
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°	59°	65°	75°	85°
0°	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9
2.5°	1190.1	1189.6	1184.5	1182.1	1177.8	1168.9	1155.0	1147.6	1135.8	1115.3	1087.7
5°	1179.2	1184.9	1188.0	1188.2	1191.3	1188.0	1175.5	1169.3	1153.0	1120.0	1070.5
7.5°	1105.7	1107.8	1116.5	1124.0	1138.6	1152.6	1157.1	1154.5	1144.9	1109.4	1043.6
10°	1026.8	1029.0	1039.4	1049.3	1069.1	1090.5	1113.2	1117.9	1122.0	1094.4	1017.7
12.5°	958.9	961.1	971.7	984.6	1007.8	1034.2	1069.3	1077.1	1094.8	1080.0	997.0
15°	900.4	901.4	911.8	927.8	955.4	989.3	1029.2	1041.7	1068.8	1069.8	978.7
17.5°	850.7	853.0	859.4	874.7	904.9	946.9	993.4	1011.2	1043.1	1061.3	961.1
20°	820.2	822.5	822.3	830.8	858.0	902.8	957.5	979.0	1017.7	1052.6	945.3
22.5°	814.4	814.4	808.1	807.1	823.1	860.5	920.3	946.5	994.8	1048.8	934.1
25°	835.3	834.3	819.1	806.5	807.3	829.6	884.2	915.3	975.5	1051.4	928.2
27.5°	879.7	878.5	859.2	835.3	816.2	816.0	856.8	890.3	960.1	1063.7	930.6
30°	941.0	940.6	919.5	889.5	854.9	823.1	847.3	877.7	950.2	1085.9	936.1
32.5°	1008.0	1007.3	991.5	959.9	916.0	854.9	857.2	882.8	953.0	1115.3	949.3
35°	1079.0	1077.8	1071.0	1043.4	995.0	913.6	889.8	909.6	971.0	1159.5	975.2
37.5°	1155.9	1157.1	1162.0	1135.6	1084.9	996.0	944.3	957.8	1007.1	1219.4	1017.5
40°	1269.3	1269.1	1270.7	1236.2	1187.3	1096.7	1020.5	1024.8	1067.4	1298.9	1081.6
42.5°	1475.3	1461.0	1417.2	1346.5	1297.5	1211.8	1116.5	1112.0	1141.3	1397.3	1171.5
45°	1752.0	1721.3	1608.1	1472.4	1409.7	1341.5	1234.6	1220.3	1238.9	1515.4	1282.3
47.5°	1990.0	1958.1	1798.0	1603.6	1528.8	1464.7	1373.2	1347.2	1353.3	1647.7	1422.9
50°	2070.9	2055.3	1915.5	1717.8	1644.2	1619.7	1533.8	1502.2	1493.5	1800.8	1586.0
52.5°	2042.9	2041.7	1948.5	1791.9	1749.9	1780.1	1735.9	1699.4	1667.3	1962.2	1751.8
55°	1997.8	2003.7	1962.0	1856.8	1855.4	1926.6	2012.5	1982.0	1889.1	2137.5	1894.8
57.5°	1873.5	1898.7	1954.4	1979.4	2037.4	2110.3	2242.7	2260.6	2150.7	2271.7	2013.4
60°	1520.1	1575.6	1757.7	1997.1	2272.2	2453.8	2520.5	2535.9	2365.3	2383.3	2173.6
62.5°	1079.0	1135.6	1366.5	1771.6	2275.7	2905.0	2934.6	2874.4	2601.7	2548.7	2449.7
65°	572.8	616.4	805.1	1278.8	1973.1	3009.8	3658.5	3479.2	3018.8	2873.9	2806.7
67.5°	293.0	306.2	381.2	625.9	1356.4	2673.5	4307.5	4433.7	3737.6	3196.7	2789.5
69°	259.3	267.0	316.9	452.4	868.6	2264.4	4339.2	4761.4	4113.8	3169.8	2534.9
70°	251.0	257.9	303.1	409.5	678.9	1899.0	4218.1	4732.6	4210.0	3067.3	2344.8
72.5°	213.0	218.9	269.9	361.9	551.8	942.6	3426.4	4010.3	3777.9	2555.2	1697.3
75°	142.5	161.9	259.1	339.2	513.3	535.5	2259.0	2898.0	2692.1	1723.5	884.2
77.5°	34.2	36.8	73.1	269.9	469.5	471.3	1161.8	1801.5	1469.4	614.3	209.0
80°	18.4	17.7	20.5	53.6	437.1	442.3	523.0	874.5	524.7	101.9	68.8
82.5°	13.0	12.2	13.2	22.4	137.5	402.9	378.4	395.8	217.5	39.2	30.9
85°	4.7	4.5	7.3	20.3	43.2	231.7	388.7	326.5	176.3	17.9	22.7
87.5°	1.6	1.4	2.8	11.1	13.2	98.6	239.9	246.7	69.4	10.8	10.6
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°	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9	1085.9
2.5°	1076.1	1061.5	1034.7	1007.1	981.6	950.9	935.5	920.5	914.1	911.8	900.6
5°	1045.1	1020.3	963.1	905.9	853.0	796.9	759.8	730.2	712.6	704.2	690.7
7.5°	1005.1	964.6	878.1	789.6	707.2	626.1	565.9	519.6	487.8	472.5	458.6
10°	966.5	912.4	789.3	668.7	556.9	449.4	366.4	306.2	267.8	250.0	238.8
12.5°	931.8	861.7	703.7	551.1	410.7	284.7	200.3	152.4	128.6	120.3	116.3
15°	900.9	815.0	622.7	439.2	278.1	162.7	109.4	93.2	89.4	89.4	88.9
17.5°	871.6	769.3	544.7	334.3	174.5	99.6	83.2	81.2	81.2	82.1	82.1
20°	843.6	725.6	469.2	239.9	109.9	79.1	75.3	74.8	75.3	76.5	76.5
22.5°	819.5	686.0	398.7	164.7	81.6	71.2	69.4	68.6	68.8	69.6	70.0
25°	801.6	652.5	332.1	111.6	70.2	64.9	62.7	61.5	60.6	60.6	61.1
27.5°	790.3	624.1	267.8	81.2	63.3	59.0	55.6	53.8	51.7	50.5	50.9
30°	782.0	597.3	207.4	66.3	56.6	52.4	48.1	45.0	42.0	40.6	41.0
32.5°	778.9	575.6	155.0	58.5	50.7	46.0	40.8	36.8	33.5	32.3	32.5
35°	787.2	558.4	113.4	52.8	46.0	40.1	34.2	29.8	27.2	26.4	26.6
37.5°	808.9	549.2	85.0	48.1	41.8	35.1	28.6	24.3	22.7	22.7	22.9
40°	849.9	549.0	68.2	44.8	38.0	30.4	23.6	20.5	19.5	20.1	20.3
42.5°	909.8	561.4	59.4	41.8	34.7	26.0	19.5	17.5	17.2	17.7	17.9
45°	991.7	584.3	54.8	39.2	31.1	21.7	16.5	15.1	15.1	15.8	16.0
47.5°	1092.0	617.8	50.7	36.5	27.6	18.2	14.2	13.2	13.4	14.2	14.4
50°	1212.7	660.0	46.7	33.7	25.0	15.1	12.2	11.6	11.8	12.8	13.0
52.5°	1350.3	716.9	43.4	31.1	21.7	12.5	10.4	9.9	10.4	11.3	11.6
55°	1468.3	767.9	39.4	29.0	17.5	10.4	8.5	8.5	8.9	10.1	10.4
57.5°	1581.7	821.1	35.9	25.0	13.6	8.3	7.1	7.3	8.1	9.2	9.5
60°	1748.3	911.5	31.6	20.9	10.4	6.6	5.9	6.1	7.1	8.3	8.5
62.5°	2031.1	1049.0	27.4	17.5	8.1	5.2	4.7	5.2	6.3	7.7	8.1
65°	2286.3	1104.9	22.4	14.6	6.1	4.0	4.0	4.7	6.1	7.5	7.7
67.5°	2144.1	930.1	17.5	11.6	4.7	3.1	3.3	4.5	5.9	7.5	7.7
69°	1896.2	760.6	14.8	9.2	4.0	2.8	3.1	4.5	5.9	7.3	7.5
70°	1702.9	642.1	13.2	7.7	3.5	2.8	3.1	4.3	5.9	7.3	7.5
72.5°	1140.6	346.8	10.6	5.7	3.3	2.6	2.6	4.3	5.7	7.1	7.3
75°	490.2	95.8	8.5	4.0	2.8	2.4	2.4	4.0	5.5	6.9	7.3
77.5°	89.7	24.3	6.9	3.5	2.8	2.4	2.1	3.8	5.2	6.6	6.9
80°	35.7	12.0	5.5	3.1	2.6	2.1	1.9	3.5	4.9	6.3	6.6
82.5°	21.5	6.9	4.5	2.8	2.6	1.9	1.6	3.1	4.7	6.1	6.3
85°	17.5	4.7	3.5	2.8	2.4	1.9	1.4	2.8	4.3	5.9	6.1
87.5°	8.5	3.3	3.3	2.6	2.4	1.9	1.4	2.6	4.0	5.7	5.9
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)