

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: P199931

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199931  
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-7030-600  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4085.8 lumens  
Efficiency: N/A  
Efficacy: 120.2 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

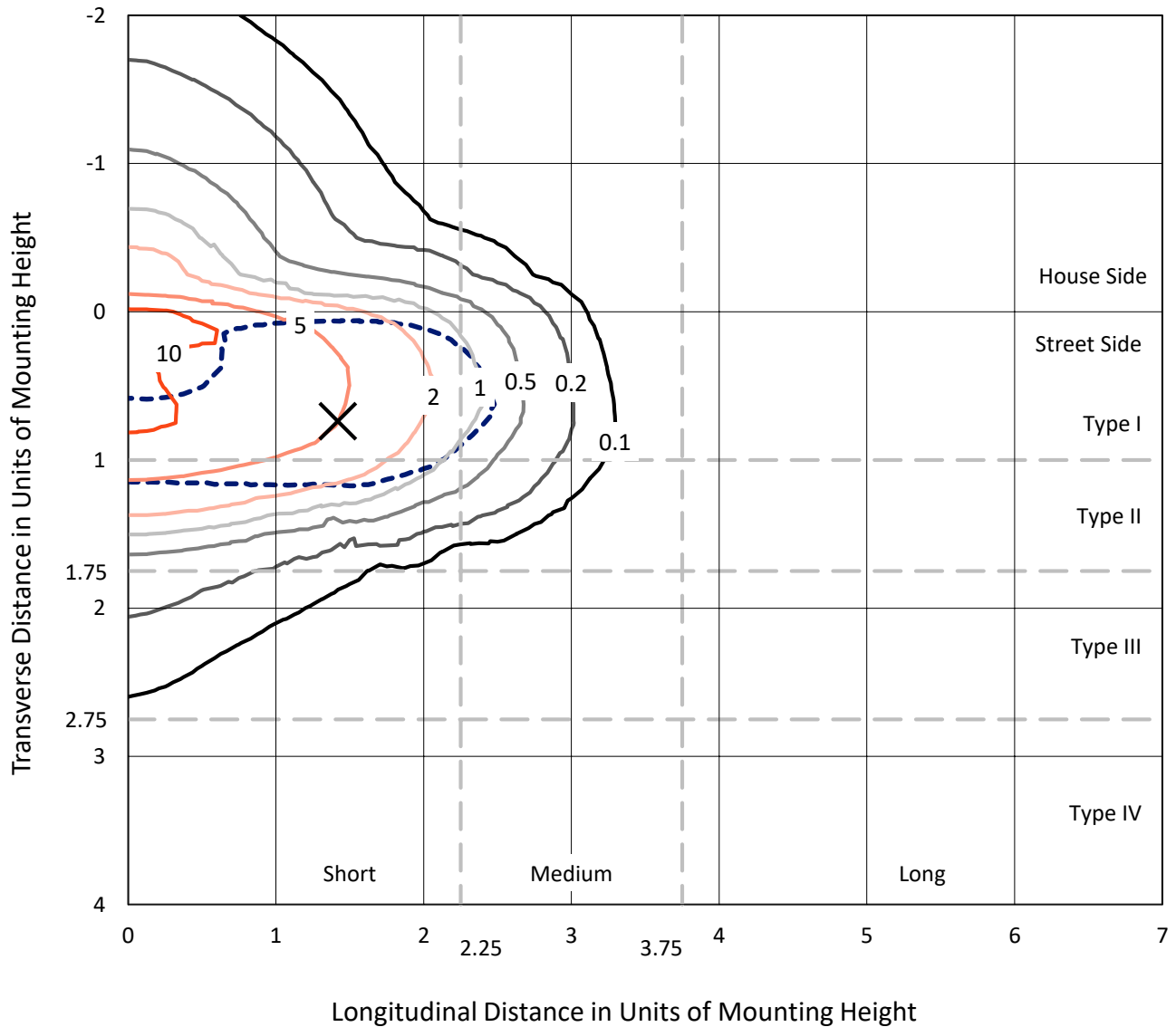


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### Iso-Footcandle Lines of Horizontal Illumination

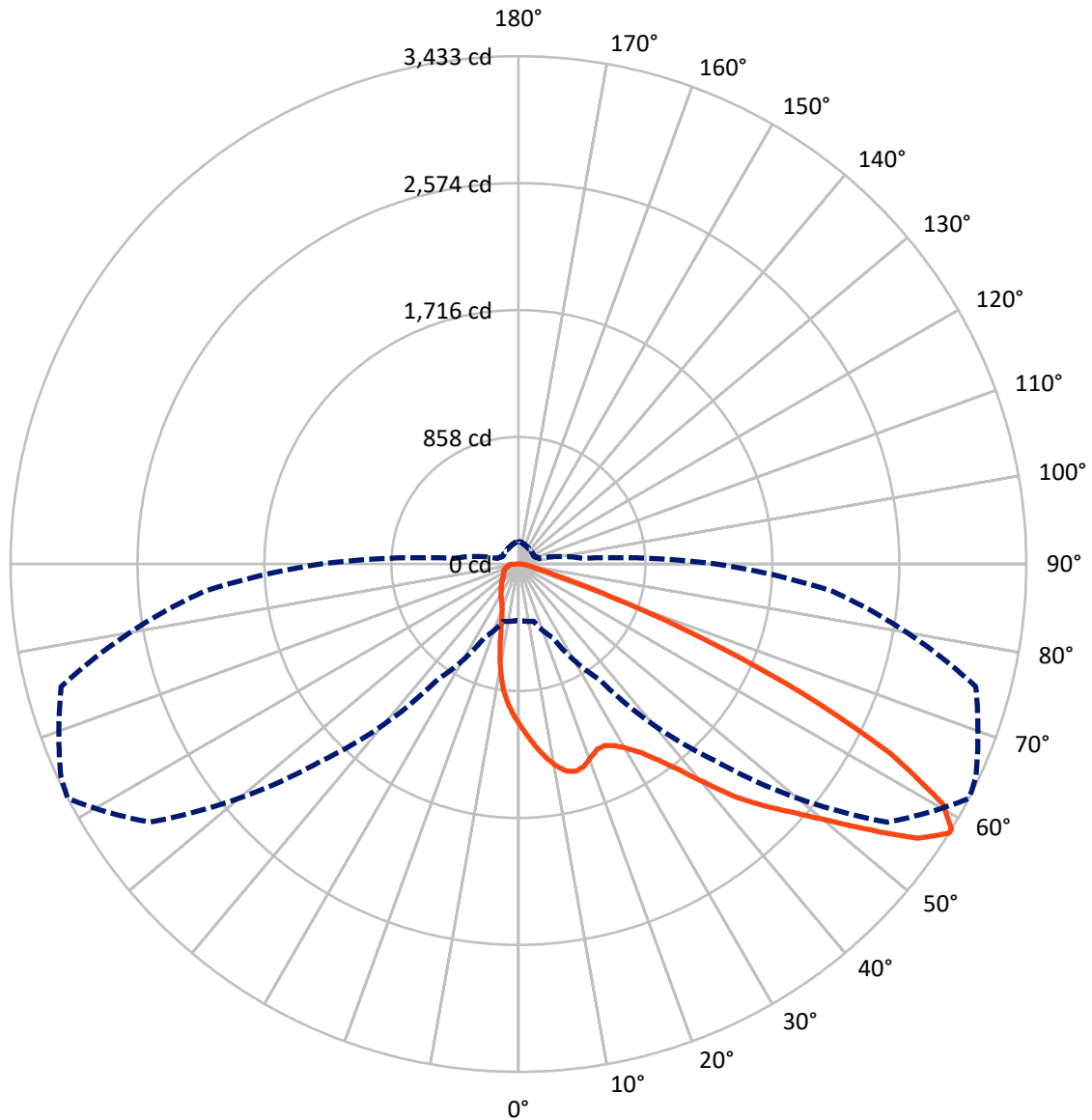
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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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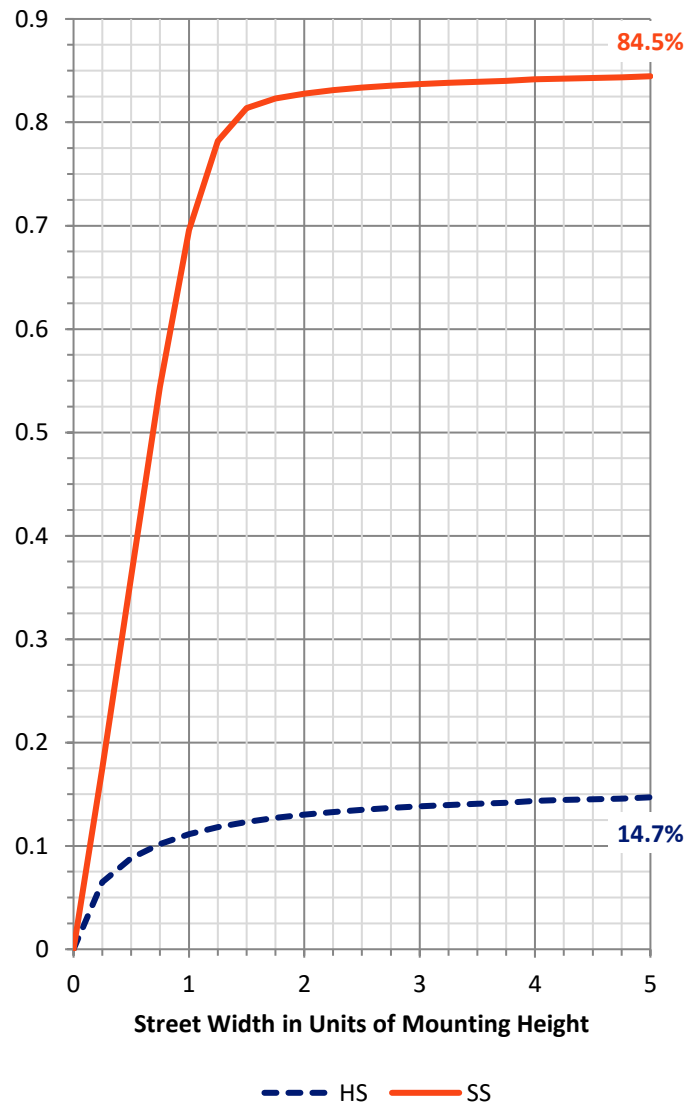
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	623.1	0.0	623.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	3462.7	0.0	3462.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	4085.8	0.0	4085.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	2.4
10°-20°	248.1	6.1
20°-30°	401.1	9.8
30°-40°	636.7	15.6
40°-50°	931.6	22.8
50°-60°	974.4	23.8
60°-70°	575.7	14.1
70°-80°	162.2	4.0
80°-90°	58.9	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°	4085.8	100.0
0°-180°	4085.8	100.0

**Coefficient of Utilization**



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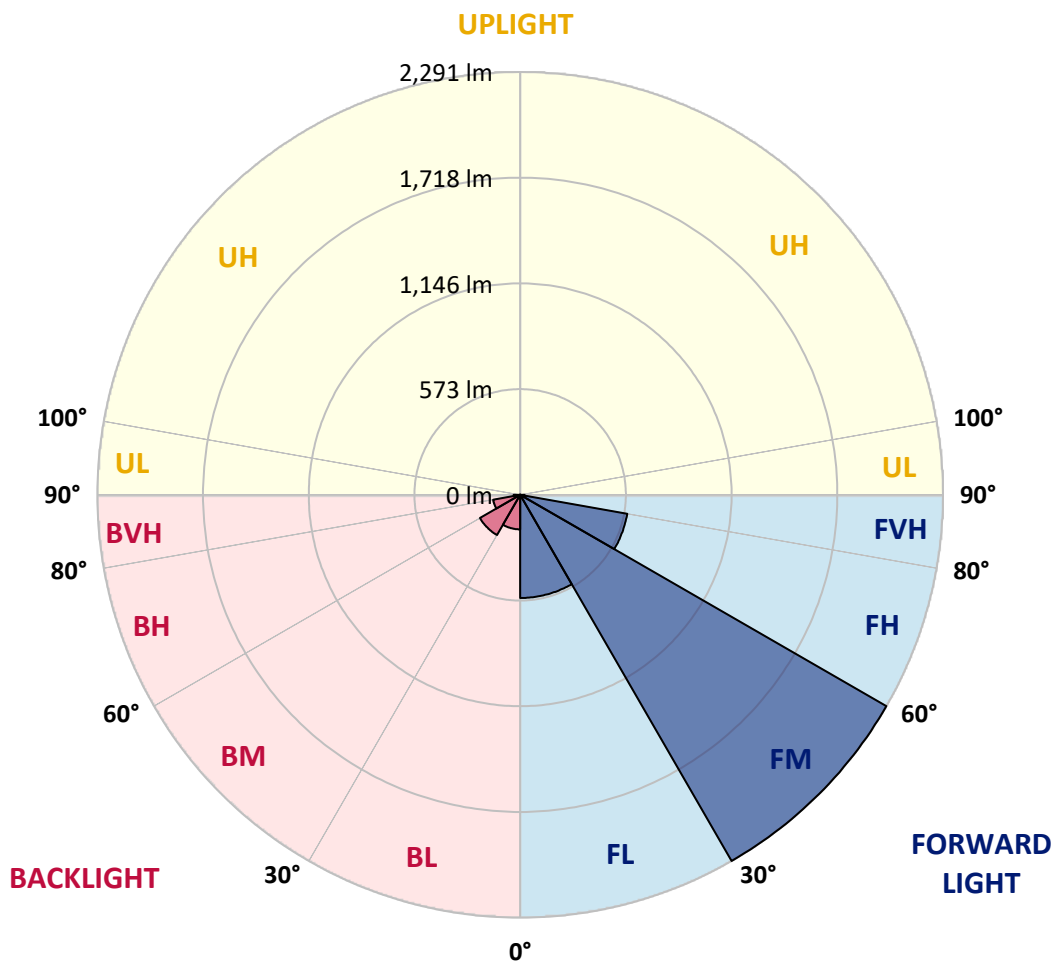
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	559.0	13.7			
FM	(30°-60°)	2291.3	56.1			
FH	(60°-80°)	589.2	14.4			G0/660
FVH	(80°-90°)	23.2	0.6			G1/100
BL	(0°-30°)	187.3	4.6	B1/500		
BM	(30°-60°)	251.5	6.2	B1/1000		
BH	(60°-80°)	148.7	3.6	B1/500		G1/500
BVH	(80°-90°)	35.6	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°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1240.2	1230.1	1223.8	1218.2	1210.9	1195.3	1174.4	1161.1	1154.4	1131.4	1104.4
5°	1361.8	1352.9	1346.4	1338.8	1325.8	1301.3	1267.5	1240.6	1227.3	1181.5	1127.2
7.5°	1333.2	1337.0	1348.3	1368.2	1385.0	1381.8	1351.6	1317.4	1299.8	1236.2	1153.8
10°	1161.7	1168.1	1187.7	1234.0	1309.1	1386.0	1409.5	1385.9	1368.2	1290.2	1181.2
12.5°	1127.2	1127.0	1128.6	1140.9	1185.6	1293.8	1411.4	1435.3	1424.7	1341.7	1209.0
15°	1141.3	1141.6	1140.6	1145.7	1159.6	1202.4	1352.6	1454.3	1461.8	1393.7	1237.9
17.5°	1178.3	1177.3	1172.9	1172.9	1177.8	1194.6	1283.3	1436.6	1471.3	1439.7	1263.2
20°	1240.2	1235.7	1224.0	1213.3	1207.9	1216.9	1254.8	1395.9	1454.9	1479.9	1284.3
22.5°	1315.2	1311.8	1292.8	1269.7	1251.0	1250.8	1269.4	1360.2	1426.6	1517.8	1302.0
25°	1412.2	1406.6	1378.4	1341.4	1308.7	1296.2	1301.3	1358.5	1411.2	1559.0	1317.7
27.5°	1526.0	1515.8	1482.4	1429.2	1381.0	1355.8	1348.3	1389.9	1425.3	1609.9	1339.7
30°	1664.2	1652.5	1609.6	1540.1	1472.2	1430.9	1414.9	1445.5	1471.8	1672.1	1374.8
32.5°	1821.4	1804.4	1754.8	1678.2	1589.0	1525.9	1499.9	1519.0	1539.9	1747.0	1419.0
35°	2038.6	2018.4	1946.7	1841.1	1740.2	1653.4	1611.9	1625.7	1646.1	1858.6	1482.7
37.5°	2186.8	2177.7	2130.0	2030.8	1921.1	1821.2	1757.0	1765.0	1776.6	1998.0	1564.2
40°	2185.4	2189.1	2190.0	2191.0	2116.4	2020.8	1951.7	1943.2	1940.9	2151.2	1656.9
42.5°	2076.0	2091.0	2139.4	2237.7	2283.2	2239.3	2176.0	2151.6	2139.4	2331.6	1755.3
45°	1908.4	1916.5	2007.2	2199.3	2368.5	2455.8	2407.9	2330.8	2308.9	2497.4	1836.8
47.5°	1822.0	1830.9	1888.0	2097.3	2367.6	2630.6	2658.3	2511.7	2472.5	2641.8	1907.2
50°	1616.3	1634.7	1706.7	1919.9	2281.2	2711.1	2920.2	2727.2	2646.0	2782.3	1977.8
52.5°	1238.6	1267.1	1347.7	1628.3	2062.1	2671.2	3129.7	2988.5	2873.8	2927.7	2038.5
55°	781.3	802.4	870.2	1149.9	1649.6	2464.0	3209.1	3271.1	3169.2	3065.4	2091.0
57.5°	424.8	434.2	459.6	634.9	1073.0	2005.9	3093.3	3432.0	3389.7	3182.4	2130.6
58°	380.2	386.6	402.3	550.2	951.6	1880.7	3042.0	3432.5	3411.4	3199.6	2133.6
60°	282.1	278.8	264.8	314.0	529.6	1299.2	2731.5	3295.2	3357.3	3220.5	2118.6
62.5°	247.8	239.9	211.3	207.9	257.7	598.6	2090.0	2822.7	2969.4	3100.9	2027.4
65°	232.8	224.4	187.4	175.5	185.8	253.2	1231.1	2116.9	2301.1	2738.0	1794.2
67.5°	221.7	210.6	172.2	155.8	156.6	167.3	493.5	1333.2	1540.5	2078.9	1395.7
70°	210.8	198.9	159.3	140.5	136.0	132.3	196.2	667.4	855.4	1313.1	889.9
72.5°	199.3	187.5	147.9	128.4	119.7	107.5	128.1	273.0	381.3	621.2	403.6
75°	182.6	172.0	136.6	117.5	105.3	89.0	96.8	142.5	171.0	247.5	194.5
77.5°	162.0	153.4	123.9	108.7	93.3	72.4	74.4	98.9	109.7	141.6	115.7
80°	116.4	119.4	110.2	97.7	83.1	58.6	57.1	72.2	77.9	91.0	75.2
82.5°	81.7	83.5	91.2	79.8	68.6	46.2	42.1	50.8	54.2	59.8	40.6
85°	56.4	54.5	62.5	55.6	49.6	30.8	28.9	34.5	36.5	37.2	20.9
87.5°	33.8	33.8	36.2	29.9	26.7	16.0	15.6	19.7	20.9	20.0	11.5
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°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1088.1	1074.5	1045.5	1022.2	992.8	962.2	945.1	926.8	914.3	905.2	919.6
5°	1096.4	1068.6	1008.6	951.6	888.7	823.3	773.7	727.5	695.4	675.3	694.2
7.5°	1109.5	1066.7	971.1	873.7	760.8	651.9	554.4	493.5	457.9	440.4	451.3
10°	1124.6	1063.5	926.9	768.1	606.4	469.3	396.5	372.0	363.8	360.6	362.1
12.5°	1137.0	1057.0	872.9	640.3	455.4	370.6	349.6	349.0	350.7	351.1	351.7
15°	1145.9	1047.4	792.7	507.2	364.2	337.7	336.5	339.9	343.3	344.6	345.3
17.5°	1151.8	1027.6	702.0	401.0	326.3	321.7	324.4	328.8	332.3	333.2	334.0
20°	1151.3	998.6	594.1	334.4	305.7	305.7	310.3	313.8	314.0	312.9	313.4
22.5°	1145.3	958.7	489.5	299.0	287.4	290.8	295.4	292.0	278.6	269.7	270.3
25°	1135.3	911.1	399.8	276.5	270.6	276.3	275.0	250.3	231.0	222.4	222.4
27.5°	1126.5	855.0	330.9	256.8	253.6	260.7	236.8	214.5	206.4	202.4	201.1
30°	1120.2	794.4	285.0	238.0	237.6	232.4	205.5	199.3	198.0	194.7	193.5
32.5°	1121.7	733.1	255.5	221.5	222.8	198.9	190.4	191.8	190.6	187.2	185.7
35°	1134.3	674.7	236.3	206.4	202.4	179.7	181.6	184.1	183.8	178.9	177.4
37.5°	1157.1	619.5	223.5	194.0	176.6	170.0	173.1	177.0	176.0	172.8	171.6
40°	1180.9	567.5	213.2	184.1	161.4	163.6	166.3	168.3	169.3	170.2	169.5
42.5°	1204.3	513.3	200.5	174.1	155.1	157.4	158.5	160.7	165.8	169.5	169.3
45°	1218.1	462.3	187.4	159.9	150.0	151.4	150.7	154.9	161.2	167.2	167.3
47.5°	1233.5	422.6	177.0	146.8	145.2	146.2	143.9	148.1	153.9	161.2	162.0
50°	1252.2	399.0	168.7	136.4	138.8	138.8	138.1	142.0	150.0	158.5	160.0
52.5°	1273.3	394.4	161.8	128.9	132.2	132.0	132.5	138.3	147.1	155.4	156.8
55°	1299.1	407.0	154.3	123.3	125.8	126.6	128.6	135.0	142.5	152.0	152.5
57.5°	1329.1	432.3	148.3	118.9	120.1	122.6	125.7	131.6	139.6	150.0	150.7
58°	1334.1	437.7	147.4	118.5	118.9	121.8	125.2	131.0	139.1	150.5	151.0
60°	1334.2	455.6	145.2	116.8	114.5	119.3	123.1	128.9	138.1	151.8	153.2
62.5°	1287.0	455.4	143.7	114.3	109.9	115.8	120.3	127.0	137.2	155.1	157.8
65°	1133.3	413.8	136.4	110.4	106.2	112.8	117.7	125.7	139.8	169.3	171.0
67.5°	886.3	339.2	122.8	105.0	101.4	109.7	116.2	125.5	142.7	172.6	173.8
70°	586.0	253.8	107.7	98.9	96.3	106.0	117.0	132.0	139.5	165.6	162.6
72.5°	304.2	178.2	95.6	91.2	90.7	102.8	128.1	131.3	136.2	155.8	152.0
75°	159.7	123.7	85.1	82.7	83.7	101.9	151.2	127.7	132.0	149.1	156.4
77.5°	97.7	99.9	76.0	75.1	77.0	99.7	151.0	123.3	125.8	137.2	145.2
80°	65.4	81.0	69.1	69.3	70.6	91.2	135.7	116.4	118.4	129.6	137.9
82.5°	41.4	47.9	62.7	65.9	64.2	75.2	115.2	106.0	108.7	148.3	156.8
85°	20.9	30.0	54.5	63.5	57.9	52.7	93.6	92.9	94.3	107.0	111.8
87.5°	9.7	16.5	42.5	55.4	43.7	32.9	67.9	68.8	74.2	76.0	76.0
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)