

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: P652195

Luminaire Tested: **GALN-SA1B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4226.8 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

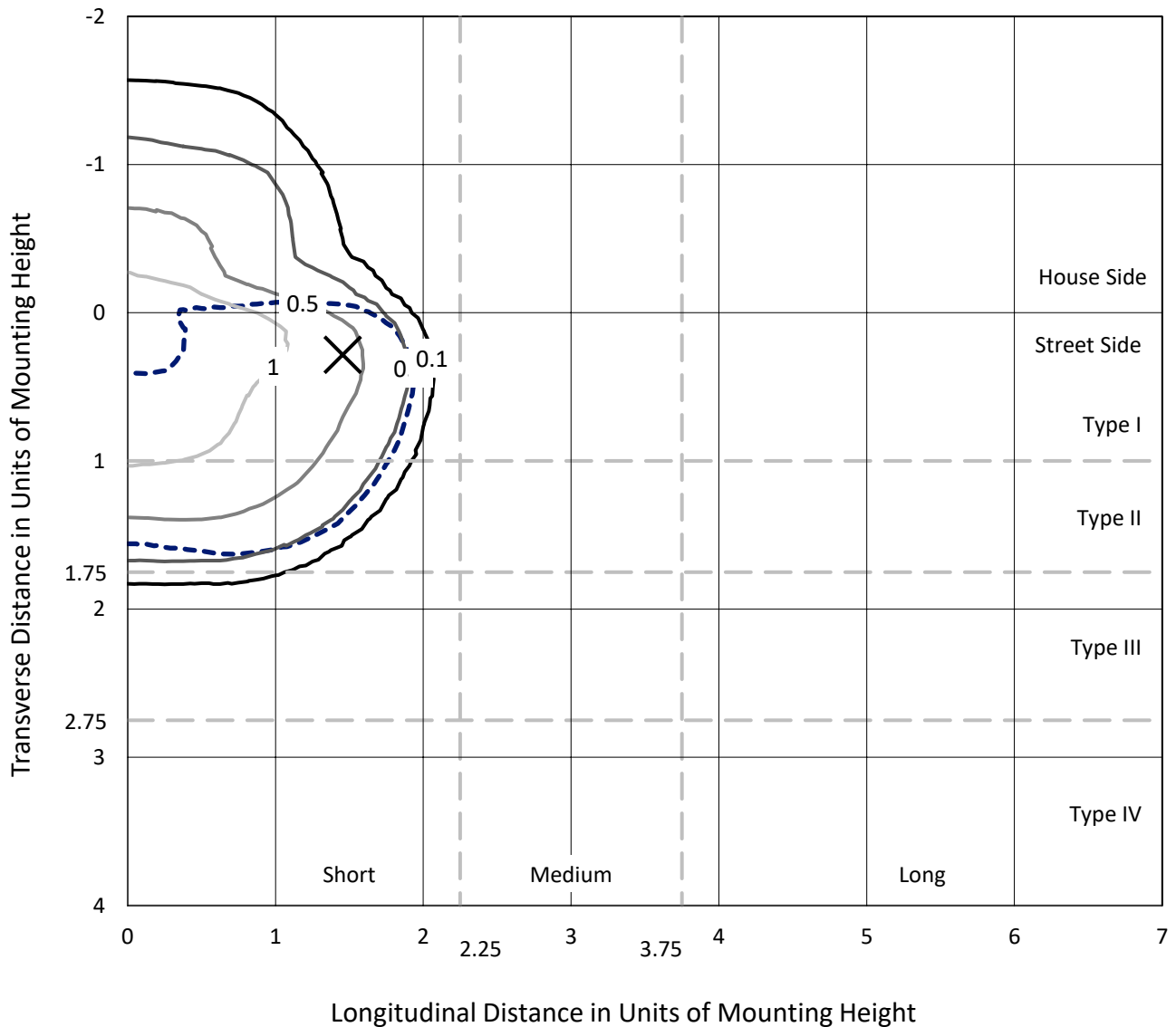
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652195  
 CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

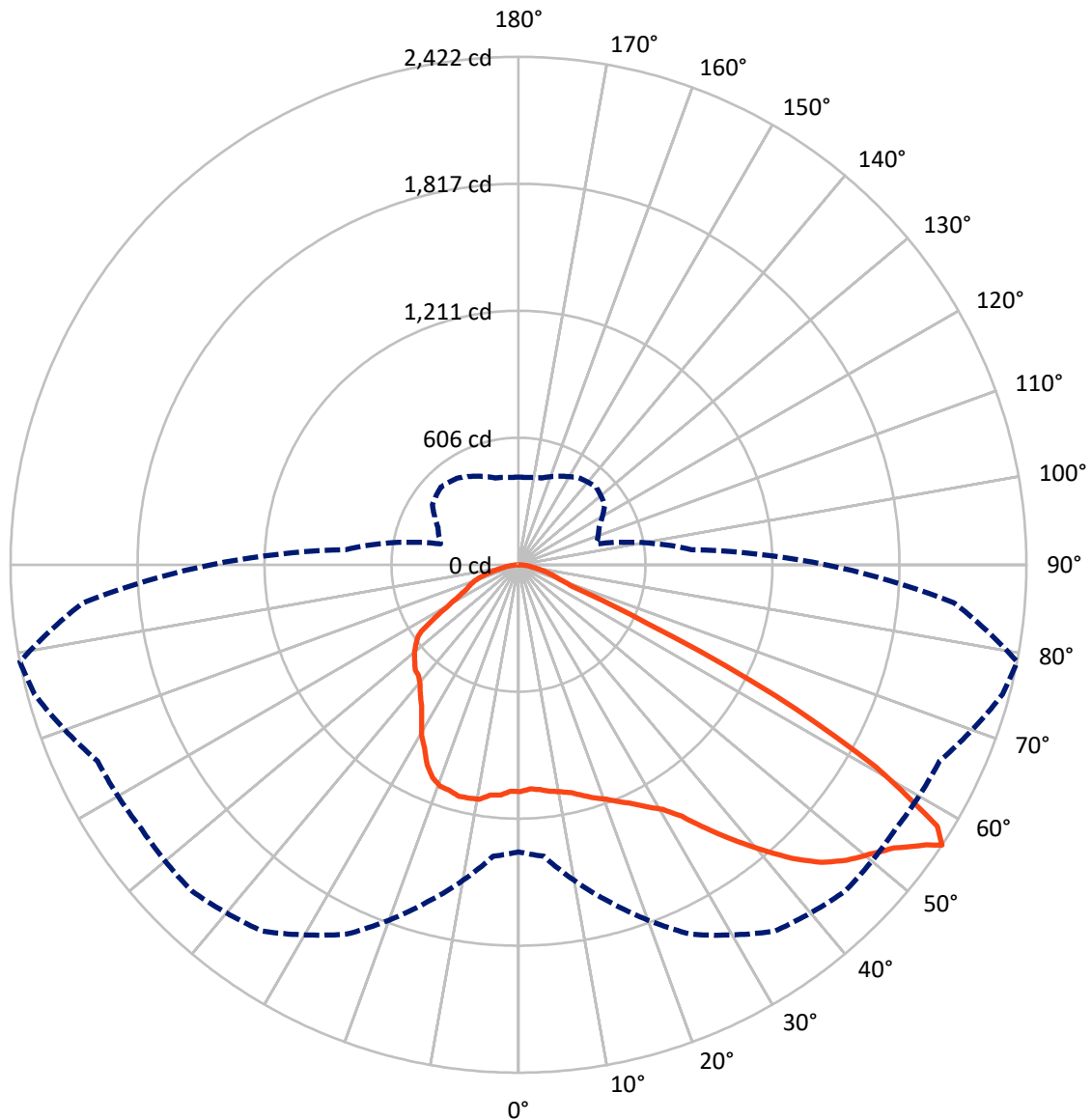
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P652195  
CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P652195  
 CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSWH

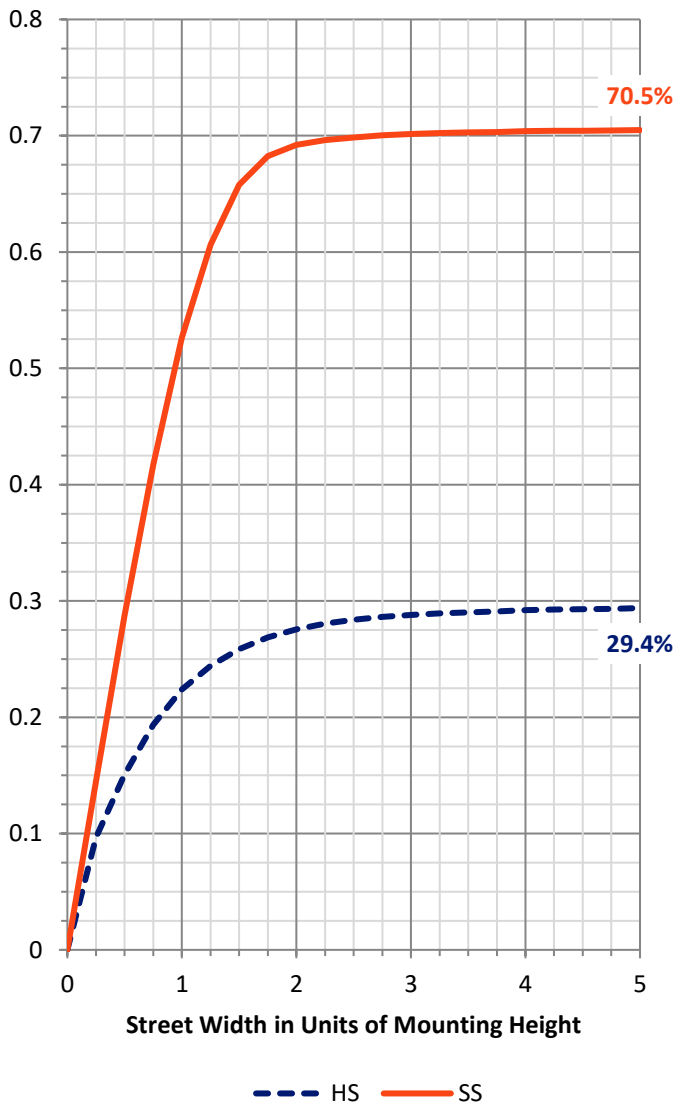
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1248.3	0.0	1248.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	2978.6	0.0	2978.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	4226.8	0.0	4226.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	2.3
10°-20°	269.1	6.4
20°-30°	460.4	10.9
30°-40°	705.6	16.7
40°-50°	953.6	22.6
50°-60°	1095.2	25.9
60°-70°	499.2	11.8
70°-80°	123.1	2.9
80°-90°	22.4	0.5
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°	4226.8	100.0
0°-180°	4226.8	100.0

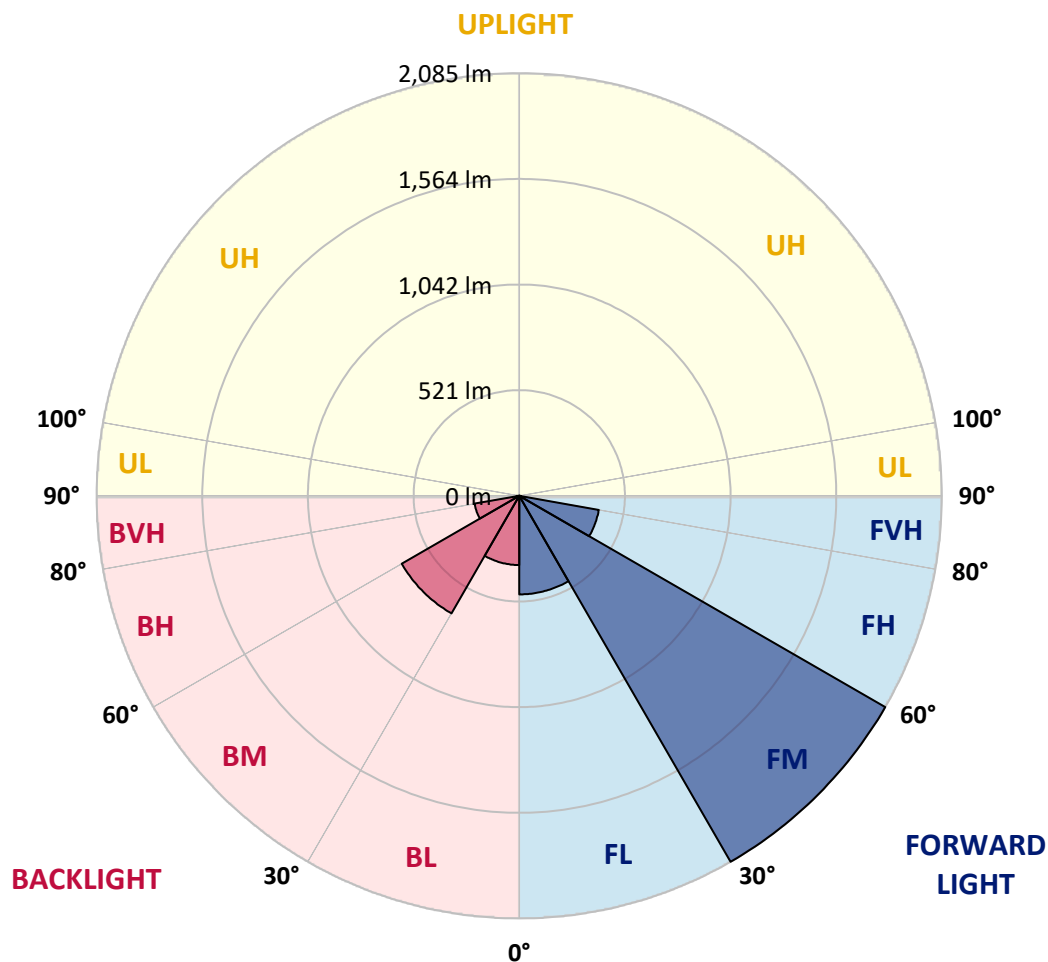


REPORT NUMBER: P652195  
 CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.3	11.5			
FM (30°-60°)	2084.8	49.3			
FH (60°-80°)	398.5	9.4			G0/660
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	341.5	8.1	B1/500		
BM (30°-60°)	669.6	15.8	B1/1000		
BH (60°-80°)	223.8	5.3	B1/500		G1/500
BVH (80°-90°)	13.4	0.3			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





REPORT NUMBER: P652195

CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5
2.5°	1028.8	1026.2	1032.5	1037.3	1043.1	1050.4	1054.1	1056.2	1074.6	1069.9	1084.1
5°	1006.8	999.9	1004.6	1008.3	1018.3	1027.3	1037.3	1053.0	1069.9	1077.2	1094.6
7.5°	987.2	983.5	982.5	985.1	998.9	1010.4	1027.8	1050.9	1078.3	1090.4	1100.4
10°	955.1	949.8	957.7	975.1	978.8	1003.1	1023.1	1056.2	1079.9	1101.0	1130.5
12.5°	940.9	935.6	937.2	947.2	973.0	996.2	1019.9	1057.3	1107.3	1115.7	1155.2
15°	963.5	958.3	959.8	957.2	982.0	994.1	1031.5	1078.3	1126.3	1140.5	1182.6
17.5°	1015.2	1015.7	1008.9	1003.1	997.3	1023.1	1048.8	1090.9	1133.6	1169.4	1201.0
20°	1113.6	1096.2	1082.5	1049.9	1040.9	1052.0	1084.6	1125.2	1163.6	1193.1	1229.0
22.5°	1189.4	1191.0	1171.5	1117.9	1098.3	1103.1	1131.0	1164.1	1206.2	1227.4	1268.4
25°	1299.4	1288.4	1267.4	1224.7	1181.0	1184.7	1205.2	1235.3	1246.8	1261.6	1306.3
27.5°	1400.0	1403.2	1361.6	1321.5	1267.4	1256.8	1293.7	1298.9	1279.5	1307.3	1322.6
30°	1502.2	1499.6	1472.2	1425.3	1372.1	1374.3	1390.6	1364.8	1337.9	1353.2	1363.7
32.5°	1608.0	1578.0	1577.0	1534.8	1494.3	1474.8	1454.8	1467.5	1425.8	1429.0	1419.0
35°	1692.8	1697.0	1672.7	1642.7	1622.8	1588.6	1533.8	1556.4	1548.5	1544.8	1501.7
37.5°	1754.4	1738.1	1750.2	1740.2	1721.2	1678.6	1621.7	1643.3	1647.0	1664.8	1614.9
40°	1805.0	1798.1	1830.2	1835.5	1822.3	1730.2	1628.0	1692.3	1747.5	1786.5	1727.0
42.5°	1829.2	1843.9	1877.6	1918.2	1888.6	1790.2	1660.6	1729.7	1852.9	1914.5	1833.4
45°	1861.8	1842.9	1892.8	1967.1	1967.6	1840.8	1692.3	1780.2	1935.0	2024.5	1906.0
47.5°	1828.7	1838.1	1889.7	1983.9	2008.1	1893.9	1777.5	1851.8	2025.5	2105.0	1973.4
50°	1754.4	1773.3	1867.6	1965.5	2038.8	1950.3	1875.5	1929.2	2109.2	2169.8	1984.5
52.5°	1677.0	1687.6	1835.0	1979.7	2052.4	2022.9	2006.6	2036.1	2211.4	2243.0	1998.1
55°	1466.4	1516.4	1727.0	1973.4	2119.2	2154.1	2141.4	2184.6	2327.2	2358.8	2073.0
56°	1369.0	1395.3	1662.2	1944.0	2132.4	2201.9	2195.6	2215.1	2388.9	2422.0	2084.5
57.5°	1188.9	1191.0	1417.4	1813.4	2082.9	2216.1	2209.8	2225.1	2376.8	2354.1	1982.9
60°	743.9	776.7	964.6	1394.8	1771.2	2056.1	2091.9	1969.2	2003.9	1956.1	1542.7
62.5°	385.4	380.7	505.4	815.6	1175.7	1472.2	1505.3	1499.6	1445.8	1375.8	1007.8
65°	192.2	193.3	264.3	403.8	602.3	770.9	863.5	873.5	730.8	672.4	478.1
67.5°	139.5	144.8	190.1	246.9	283.8	317.5	389.1	381.7	289.1	274.8	254.8
70°	108.5	113.2	154.2	188.5	171.1	171.1	186.4	192.7	205.9	211.7	218.5
72.5°	79.0	82.7	117.9	130.0	112.2	120.6	139.5	154.2	167.9	170.1	178.0
75°	54.2	57.4	77.4	71.6	67.4	83.2	102.2	115.8	125.8	131.1	135.8
77.5°	35.2	36.3	44.2	37.4	43.1	53.7	66.4	78.0	88.0	92.2	93.2
80°	15.8	17.4	18.9	23.7	30.0	38.4	47.3	56.9	63.2	64.8	68.0
82.5°	8.9	8.9	11.6	16.8	22.1	27.9	34.2	41.0	48.4	50.0	49.5
85°	4.7	4.7	6.8	10.0	13.7	16.3	15.8	16.3	17.4	20.0	19.5
87.5°	1.6	1.6	2.1	2.1	2.6	3.2	2.6	3.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652195

CATALOG NUMBER: GALN-SA1B-840-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.5
2.5°	1079.9	1084.6	1078.3	1092.0	1092.0	1089.3	1076.2	1080.4	1083.6	1083.6	1086.2
5°	1100.4	1098.9	1103.1	1086.7	1076.7	1073.0	1051.5	1040.9	1032.0	1031.5	1023.6
7.5°	1112.1	1107.8	1106.3	1094.1	1049.9	1023.1	976.7	949.8	944.0	923.5	931.4
10°	1130.5	1138.4	1130.5	1064.6	1003.1	941.4	896.2	854.5	838.2	825.1	817.2
12.5°	1168.4	1164.7	1118.9	1029.9	943.5	870.4	803.0	759.3	742.9	731.3	730.3
15°	1200.4	1182.0	1112.1	975.1	850.8	773.0	717.6	686.6	679.2	680.3	685.0
17.5°	1211.5	1198.9	1076.2	918.3	781.9	690.3	664.5	659.8	666.6	674.5	676.6
20°	1229.0	1208.9	1061.5	840.8	696.6	638.7	637.1	654.0	666.6	678.2	679.8
22.5°	1265.3	1214.7	1013.6	767.7	638.2	623.4	638.7	652.9	672.4	681.9	673.4
25°	1275.8	1202.0	946.2	679.8	601.3	613.9	630.2	649.8	663.5	668.7	672.4
27.5°	1284.7	1182.6	855.0	621.3	589.7	613.4	630.2	646.6	654.0	658.7	662.9
30°	1310.0	1176.8	776.1	582.3	582.3	602.9	624.4	628.6	638.7	644.5	651.9
32.5°	1322.6	1136.8	695.0	557.6	575.0	608.1	609.7	617.6	618.1	622.8	615.0
35°	1355.8	1108.4	619.7	539.7	578.1	602.9	610.7	606.0	580.2	567.6	570.2
37.5°	1380.0	1094.1	565.5	537.6	578.7	608.6	612.8	577.1	550.2	529.2	534.5
40°	1445.3	1058.8	524.4	533.9	583.4	615.0	603.4	564.5	516.0	494.4	490.7
42.5°	1495.3	1033.6	498.6	529.7	587.1	623.9	598.6	539.2	489.6	469.7	474.9
45°	1553.2	1027.8	484.9	530.8	593.4	628.6	592.9	519.7	467.0	459.1	457.6
47.5°	1573.8	986.2	470.2	521.8	591.8	627.1	573.4	504.9	458.6	459.7	463.9
50°	1539.5	943.5	459.1	503.3	581.3	612.8	542.9	485.4	453.9	467.0	474.4
52.5°	1495.9	899.9	436.5	478.6	559.7	590.8	528.7	484.4	449.1	444.9	446.5
55°	1509.0	864.0	404.9	444.9	525.0	549.7	512.8	474.4	437.6	421.8	427.0
56°	1466.4	827.2	384.3	423.9	501.2	523.4	504.9	465.4	428.1	417.6	417.6
57.5°	1345.8	703.4	357.5	390.1	451.2	477.5	489.6	460.2	417.6	399.1	399.6
60°	992.5	500.2	320.7	343.8	373.8	394.9	451.2	445.5	391.2	378.5	373.8
62.5°	611.8	365.4	294.3	303.3	318.6	335.9	393.8	403.3	363.3	349.6	346.5
65°	342.8	279.5	274.3	278.0	285.4	294.3	327.0	348.0	320.7	299.6	298.6
67.5°	250.6	250.1	254.3	257.4	260.6	260.6	268.5	276.9	273.2	256.4	254.8
70°	222.7	224.3	227.5	228.0	229.0	225.4	219.0	216.4	220.6	210.1	208.0
72.5°	183.8	189.1	192.7	193.3	187.5	182.7	174.3	165.3	162.1	160.0	159.5
75°	141.1	144.8	146.3	145.8	143.7	136.9	126.9	117.9	112.2	105.8	109.0
77.5°	95.3	100.6	103.2	103.2	100.1	89.5	84.8	78.0	72.2	65.3	66.4
80°	66.9	70.6	74.8	74.3	69.0	63.7	56.9	50.5	45.8	40.5	40.0
82.5°	50.0	52.1	54.2	53.2	49.5	44.2	39.5	33.7	28.4	24.7	24.7
85°	17.9	19.5	23.7	24.7	26.8	26.8	22.6	18.9	15.3	12.6	12.6
87.5°	5.3	5.3	5.8	5.8	5.3	5.8	4.7	5.3	5.8	3.7	3.7
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)