

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: P651207

Luminaire Tested: **GALN-SA1D-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6736.4 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

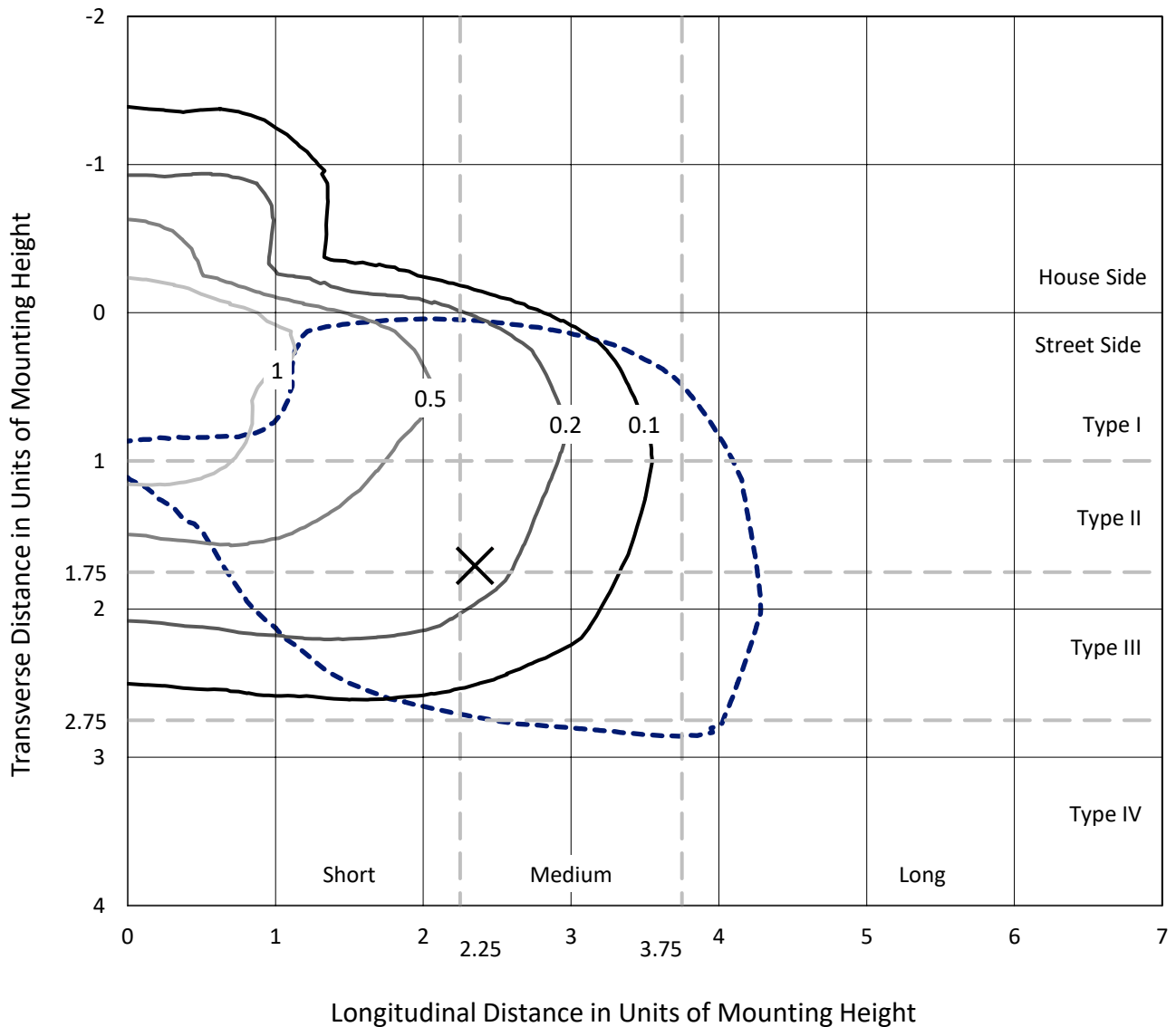
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651207  
 CATALOG NUMBER: GALN-SA1D-840-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

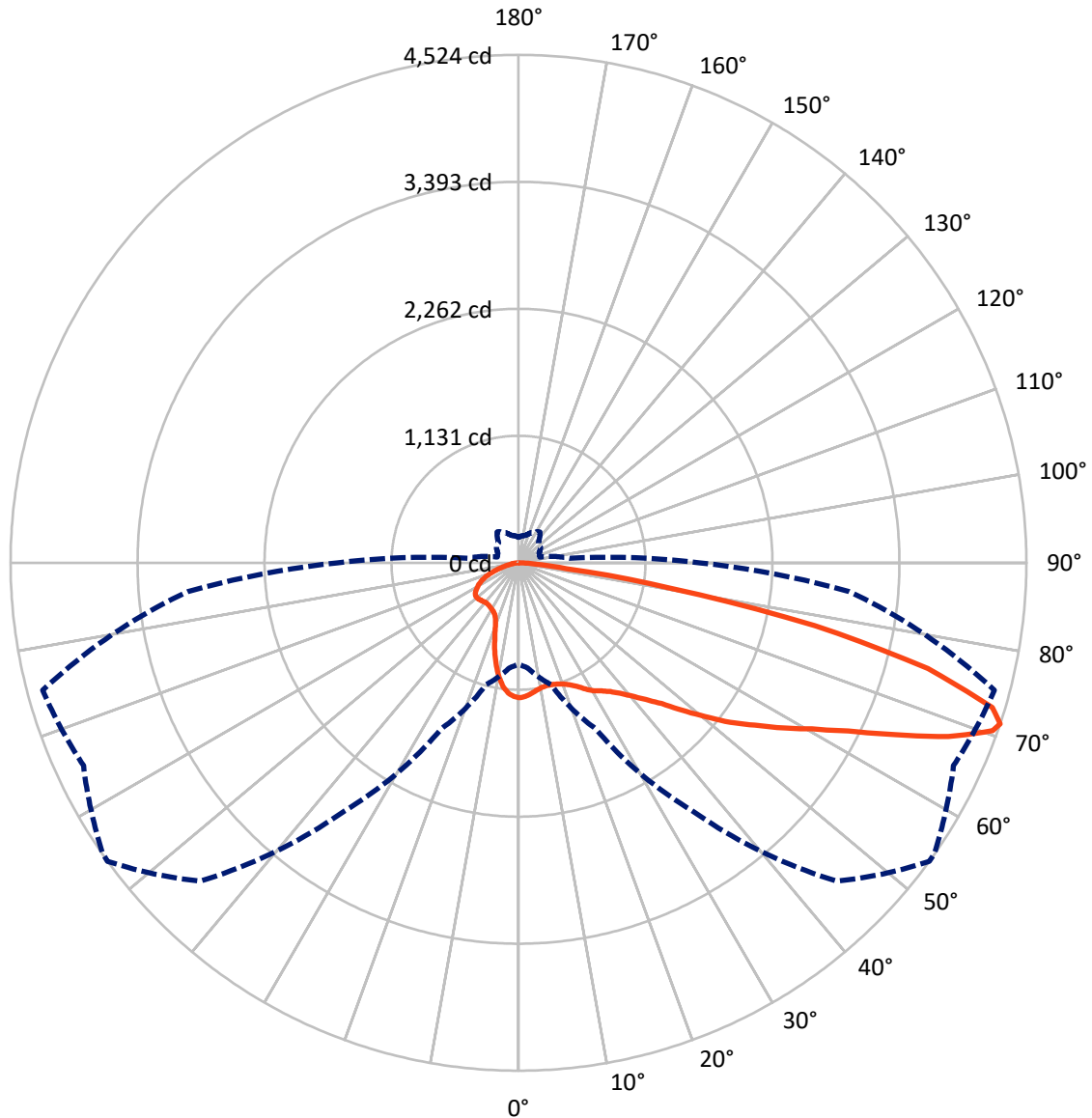
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P651207  
CATALOG NUMBER: GALN-SA1D-840-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P651207  
 CATALOG NUMBER: GALN-SA1D-840-U-T3R

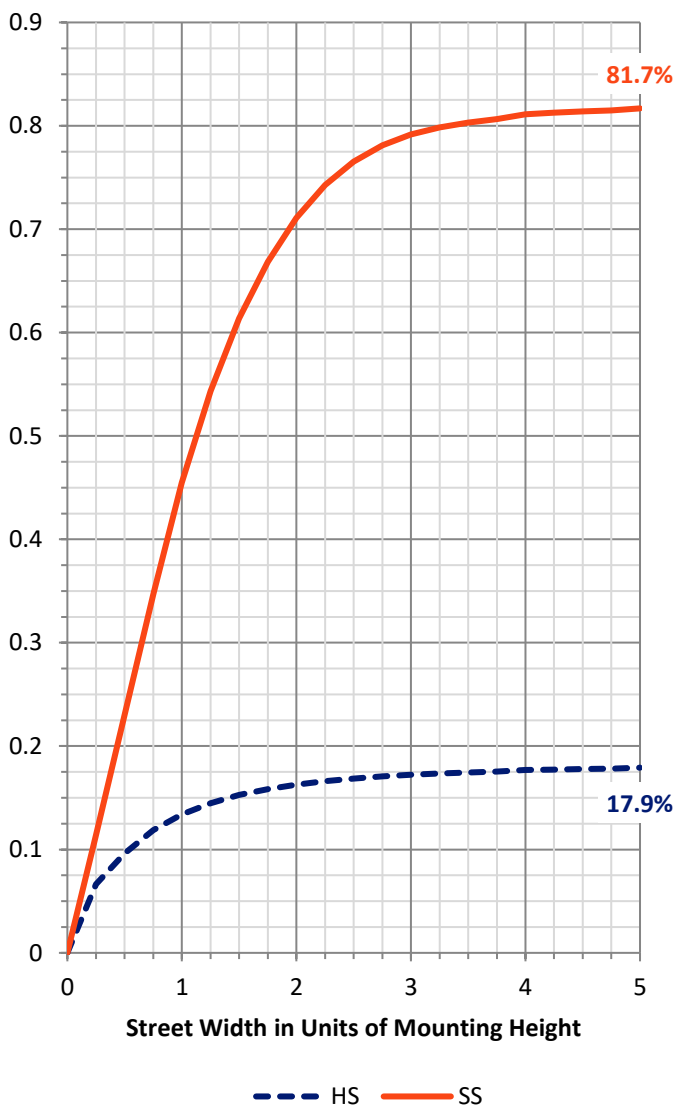
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1216.2	0.0	1216.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5520.2	0.0	5520.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6736.4	0.0	6736.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	1.6
10°-20°	282.8	4.2
20°-30°	470.9	7.0
30°-40°	696.3	10.3
40°-50°	980.8	14.6
50°-60°	1313.3	19.5
60°-70°	1655.3	24.6
70°-80°	1130.6	16.8
80°-90°	99.4	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°	6736.4	100.0
0°-180°	6736.4	100.0

**Coefficient of Utilization**

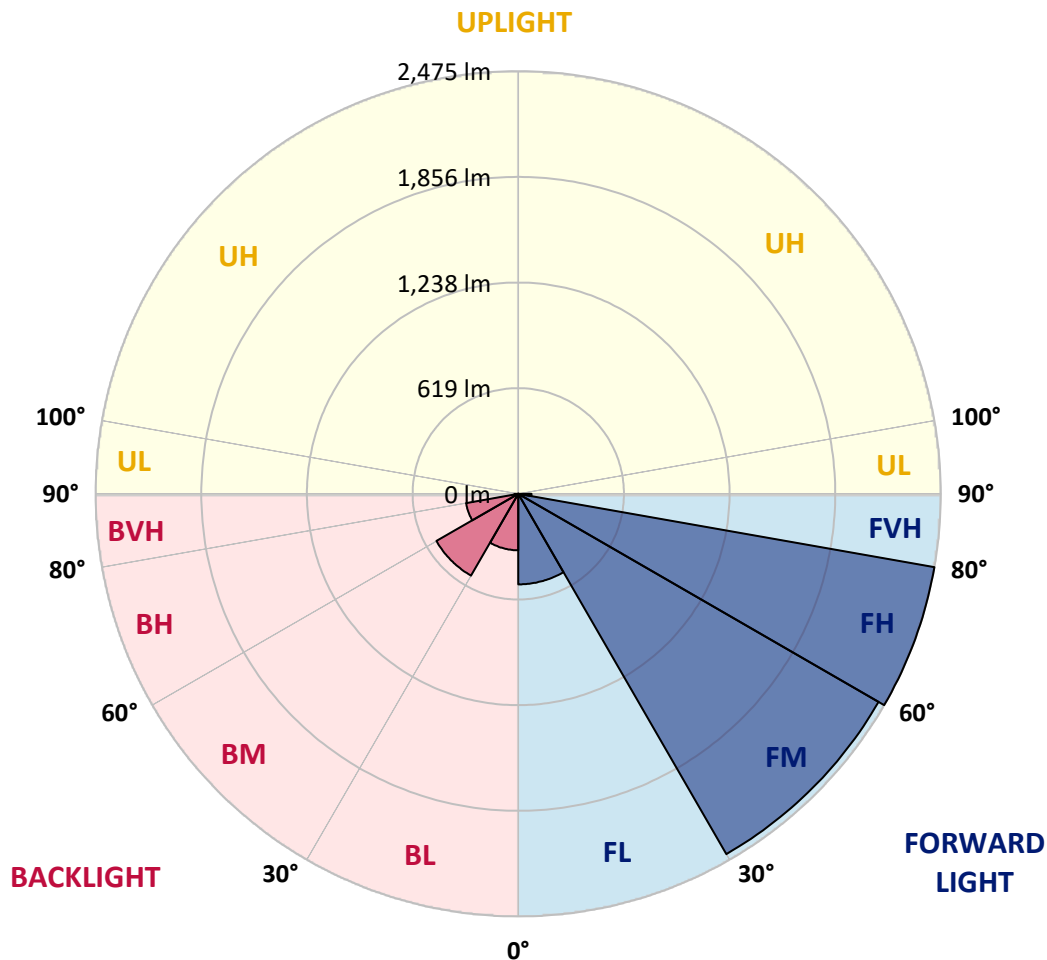


REPORT NUMBER: P651207  
 CATALOG NUMBER: GALN-SA1D-840-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.3	7.9			
FM (30°-60°)	2437.0	36.2			
FH (60°-80°)	2475.2	36.7			G2/5000
FVH (80°-90°)	77.7	1.2			G1/100
BL (0°-30°)	330.5	4.9	B1/500		
BM (30°-60°)	553.3	8.2	B1/1000		
BH (60°-80°)	310.6	4.6	B1/500		G1/500
BVH (80°-90°)	21.7	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-G2**  
 Type IV Medium





REPORT NUMBER: P651207

CATALOG NUMBER: GALN-SA1D-840-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9
2.5°	1161.1	1166.6	1168.1	1171.7	1179.3	1185.5	1191.7	1190.9	1199.7	1203.3	1206.6
5°	1109.4	1110.9	1116.3	1123.7	1137.1	1154.2	1170.9	1171.3	1192.8	1209.9	1218.3
7.5°	1071.6	1076.3	1080.0	1087.6	1101.8	1120.4	1147.0	1149.1	1187.3	1221.1	1239.0
10°	1046.9	1052.3	1056.3	1065.8	1080.0	1100.7	1129.5	1133.5	1183.3	1239.0	1270.2
12.5°	1024.3	1029.8	1033.4	1045.8	1064.4	1089.8	1122.1	1126.9	1184.8	1259.7	1304.5
15°	1038.1	1042.5	1041.1	1044.7	1057.1	1086.2	1125.1	1129.8	1190.3	1279.7	1338.4
17.5°	1099.6	1103.2	1091.3	1077.4	1071.6	1093.0	1134.2	1139.3	1201.1	1300.5	1372.9
20°	1190.3	1200.0	1173.9	1142.9	1114.9	1117.9	1153.1	1158.6	1216.4	1321.2	1408.2
22.5°	1308.1	1315.4	1283.4	1232.4	1180.8	1154.2	1181.5	1184.8	1239.4	1348.1	1446.8
25°	1446.8	1451.1	1406.7	1341.2	1266.6	1216.4	1220.5	1226.3	1277.2	1378.7	1481.0
27.5°	1581.4	1595.2	1543.9	1463.8	1365.6	1281.9	1273.9	1277.6	1318.4	1395.8	1504.6
30°	1741.1	1740.0	1685.9	1593.0	1467.1	1353.3	1324.5	1323.7	1340.5	1404.2	1521.7
32.5°	1868.5	1883.4	1830.3	1729.1	1583.2	1427.1	1359.4	1358.0	1357.6	1418.8	1547.2
35°	2013.4	2015.5	1966.8	1864.8	1708.7	1519.9	1408.2	1400.9	1392.5	1450.1	1581.8
37.5°	2142.9	2153.0	2108.3	1994.0	1832.1	1616.3	1475.1	1470.4	1444.9	1504.2	1637.1
40°	2244.0	2251.6	2224.7	2116.0	1953.6	1720.4	1560.3	1551.6	1520.6	1593.0	1710.9
42.5°	2277.1	2292.7	2303.3	2249.8	2093.3	1843.7	1665.1	1654.2	1630.5	1727.7	1796.0
45°	2279.7	2304.4	2360.1	2362.6	2233.8	1991.5	1787.4	1779.7	1777.9	1900.2	1915.8
47.5°	2260.4	2285.5	2379.0	2429.6	2359.0	2140.7	1963.8	1951.8	1952.9	2113.3	2050.1
50°	2213.8	2243.6	2357.2	2472.5	2456.9	2295.7	2150.1	2146.1	2168.7	2356.8	2189.5
52.5°	2126.1	2162.1	2334.6	2499.5	2529.6	2429.2	2361.9	2350.6	2407.8	2621.0	2341.9
55°	1883.4	1937.7	2252.0	2514.3	2598.8	2557.0	2552.6	2573.0	2648.6	2909.2	2509.6
57.5°	1756.8	1797.6	2072.6	2516.9	2686.2	2705.4	2775.3	2780.3	2912.8	3215.2	2699.2
60°	1687.6	1723.6	1974.4	2500.2	2808.0	2889.2	3003.0	3021.2	3170.8	3546.7	2895.7
62.5°	1627.3	1658.2	1915.5	2442.3	2945.5	3161.7	3298.1	3306.9	3463.7	3912.8	3089.7
65°	1485.0	1520.3	1796.8	2384.5	3064.2	3502.3	3689.7	3679.5	3775.6	4228.5	3211.2
67.5°	1293.2	1337.9	1575.2	2184.7	3122.8	3874.5	4130.7	4118.0	4083.4	4435.6	3246.1
70°	1048.3	1072.4	1291.8	1839.4	2888.8	4069.9	4478.9	4465.5	4274.0	4462.9	3080.9
71°	902.1	939.5	1124.8	1633.8	2694.1	4010.2	4523.7	4520.0	4274.5	4387.6	2956.5
72.5°	704.1	727.0	890.8	1266.0	2289.9	3671.1	4413.1	4426.9	4181.6	4178.3	2699.9
75°	445.4	455.6	558.9	745.2	1256.5	2599.9	3767.2	3804.7	3712.9	3420.0	2007.9
77.5°	258.7	271.8	334.8	439.2	542.9	1411.1	2695.6	2736.4	2579.9	1883.1	822.0
80°	150.6	165.2	220.5	255.1	249.3	523.6	1372.5	1442.1	1117.1	475.6	230.7
82.5°	83.7	93.5	155.0	155.3	132.8	171.1	431.9	452.0	318.7	191.7	94.3
85°	60.8	68.8	100.1	90.6	63.7	73.5	150.3	157.5	128.8	80.8	30.5
87.5°	21.4	30.5	54.9	43.6	17.5	15.3	43.3	35.3	32.7	22.5	6.9
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: P651207

CATALOG NUMBER: GALN-SA1D-840-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9
2.5°	1208.4	1209.2	1205.5	1198.9	1192.5	1184.0	1174.6	1167.3	1164.0	1163.7	1163.3
5°	1221.6	1223.3	1209.5	1189.2	1166.6	1139.0	1115.3	1088.3	1081.4	1070.5	1073.8
7.5°	1242.7	1241.6	1214.2	1170.9	1118.2	1059.6	1010.1	981.4	951.5	943.2	943.5
10°	1272.9	1266.0	1214.2	1133.8	1045.8	958.8	889.7	846.0	822.3	802.7	795.4
12.5°	1304.8	1287.4	1202.6	1081.8	952.6	846.0	771.8	712.8	697.5	681.5	681.9
15°	1335.4	1306.3	1179.7	1008.7	852.2	725.5	653.5	618.2	613.5	615.3	614.9
17.5°	1363.1	1319.8	1144.8	927.1	735.0	622.3	584.0	586.6	599.3	608.4	609.5
20°	1391.1	1327.8	1092.7	818.0	624.4	559.6	561.1	581.1	600.4	612.8	614.6
22.5°	1417.7	1331.4	1031.6	712.5	544.4	533.1	554.6	576.0	594.9	606.9	608.8
25°	1435.1	1323.1	944.9	602.2	505.0	523.6	546.1	564.4	580.4	592.7	595.7
27.5°	1439.9	1296.1	837.6	513.1	486.9	514.5	535.3	548.8	561.1	572.7	574.9
30°	1437.3	1256.5	719.7	460.7	476.3	503.9	520.0	529.8	544.7	553.8	555.6
32.5°	1433.3	1210.3	596.8	432.6	467.6	494.2	503.6	512.3	512.0	508.3	510.9
35°	1434.7	1154.9	497.0	415.9	459.9	486.9	494.8	483.9	452.6	451.2	449.8
37.5°	1442.4	1100.4	424.6	404.3	455.9	485.8	490.1	439.9	412.3	399.6	396.3
40°	1462.1	1036.7	376.9	395.5	455.6	494.2	468.7	417.7	364.6	339.8	338.0
42.5°	1488.2	974.1	347.8	390.1	459.9	506.9	459.9	386.4	328.6	314.0	311.8
45°	1527.2	902.4	331.9	387.5	466.5	511.6	457.0	363.5	314.0	302.3	302.3
47.5°	1571.2	834.0	323.1	385.7	474.8	508.3	431.2	356.2	307.1	308.6	315.5
50°	1614.9	774.7	316.6	381.7	482.1	506.5	420.7	355.8	308.9	327.5	339.8
52.5°	1665.4	732.8	308.6	375.2	482.1	494.8	417.4	363.1	314.0	319.5	325.0
55°	1726.6	719.7	298.4	361.0	473.4	465.7	415.5	373.7	317.6	304.9	307.1
57.5°	1807.4	740.8	288.5	343.1	453.4	435.6	414.8	376.6	309.3	298.7	296.5
60°	1901.2	782.7	285.6	325.0	426.1	409.7	410.4	368.3	297.6	286.7	288.5
62.5°	1967.1	807.8	283.8	311.1	396.3	381.3	399.9	358.0	292.6	283.1	284.9
65°	1967.1	777.3	267.1	290.0	357.7	347.2	387.2	345.3	286.0	275.1	273.2
67.5°	1892.5	688.1	241.6	258.4	315.1	308.2	369.4	330.0	276.2	267.8	263.5
70°	1698.2	521.8	209.6	221.3	261.3	267.4	346.4	309.3	259.8	249.6	243.0
71°	1612.7	454.5	196.1	202.3	240.5	249.6	335.5	300.6	252.6	238.0	226.3
72.5°	1447.9	382.8	175.8	178.3	205.6	221.9	312.6	283.8	238.7	218.0	204.9
75°	1100.0	279.5	141.5	140.1	152.1	176.1	264.5	252.9	209.2	181.2	173.6
77.5°	475.2	152.1	105.9	107.0	103.4	133.6	208.1	217.2	179.4	147.3	140.4
80°	144.1	87.7	72.4	73.8	69.1	89.5	146.7	170.3	144.1	114.6	105.1
82.5°	73.8	52.4	49.5	48.8	44.1	50.5	88.8	116.5	102.9	71.7	63.3
85°	32.0	28.0	24.4	23.6	20.8	18.2	31.6	58.2	54.6	40.0	38.2
87.5°	8.0	7.3	4.7	4.4	2.5	0.3	0.0	0.0	0.0	0.0	0.0
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)