

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: P526946

Luminaire Tested: **GALN-SA1D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526946
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-SA1D-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 5430 lumens
Efficiency: N/A
Efficacy: 83.5 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): 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

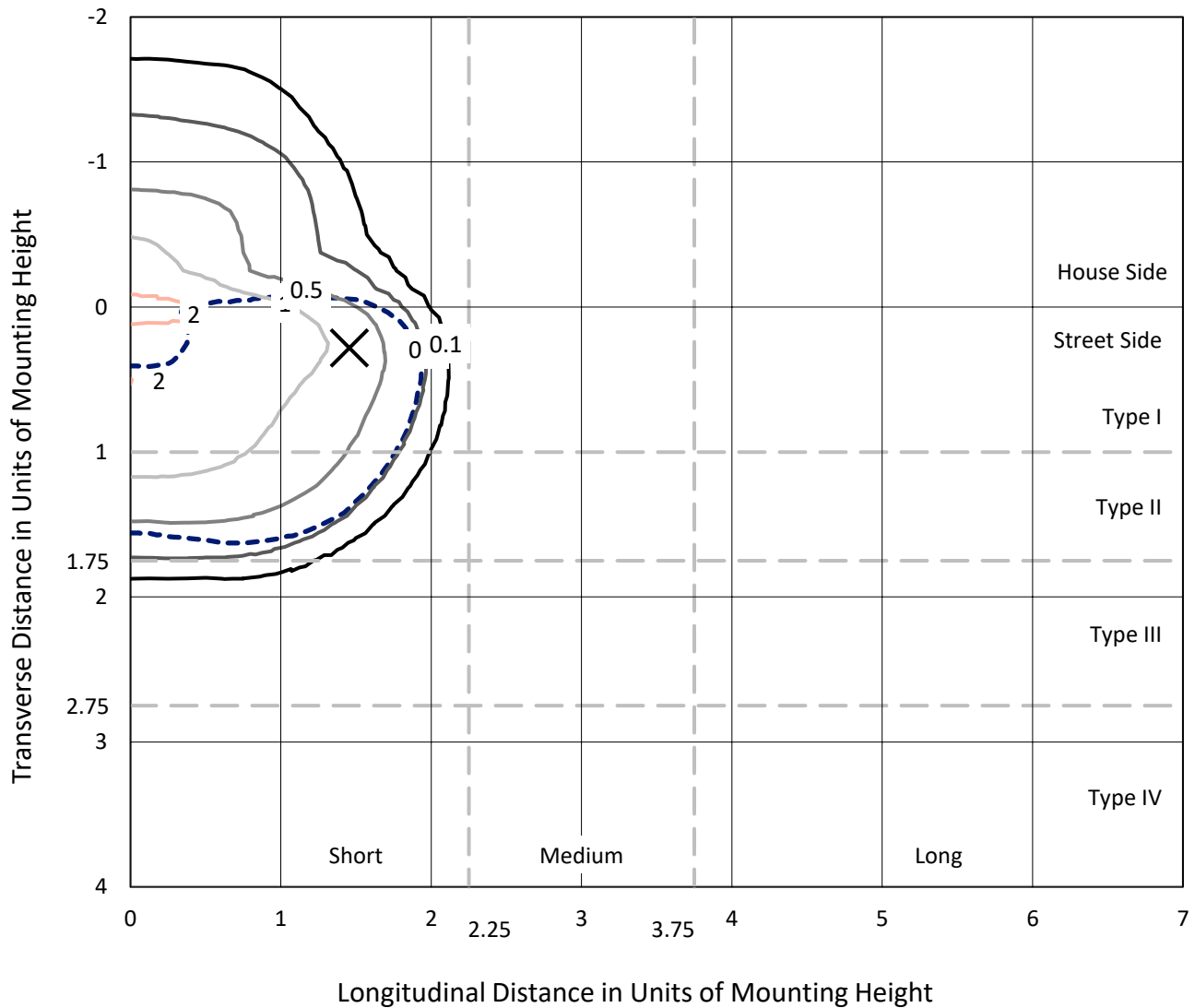


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Iso-Footcandle Lines of Horizontal Illumination

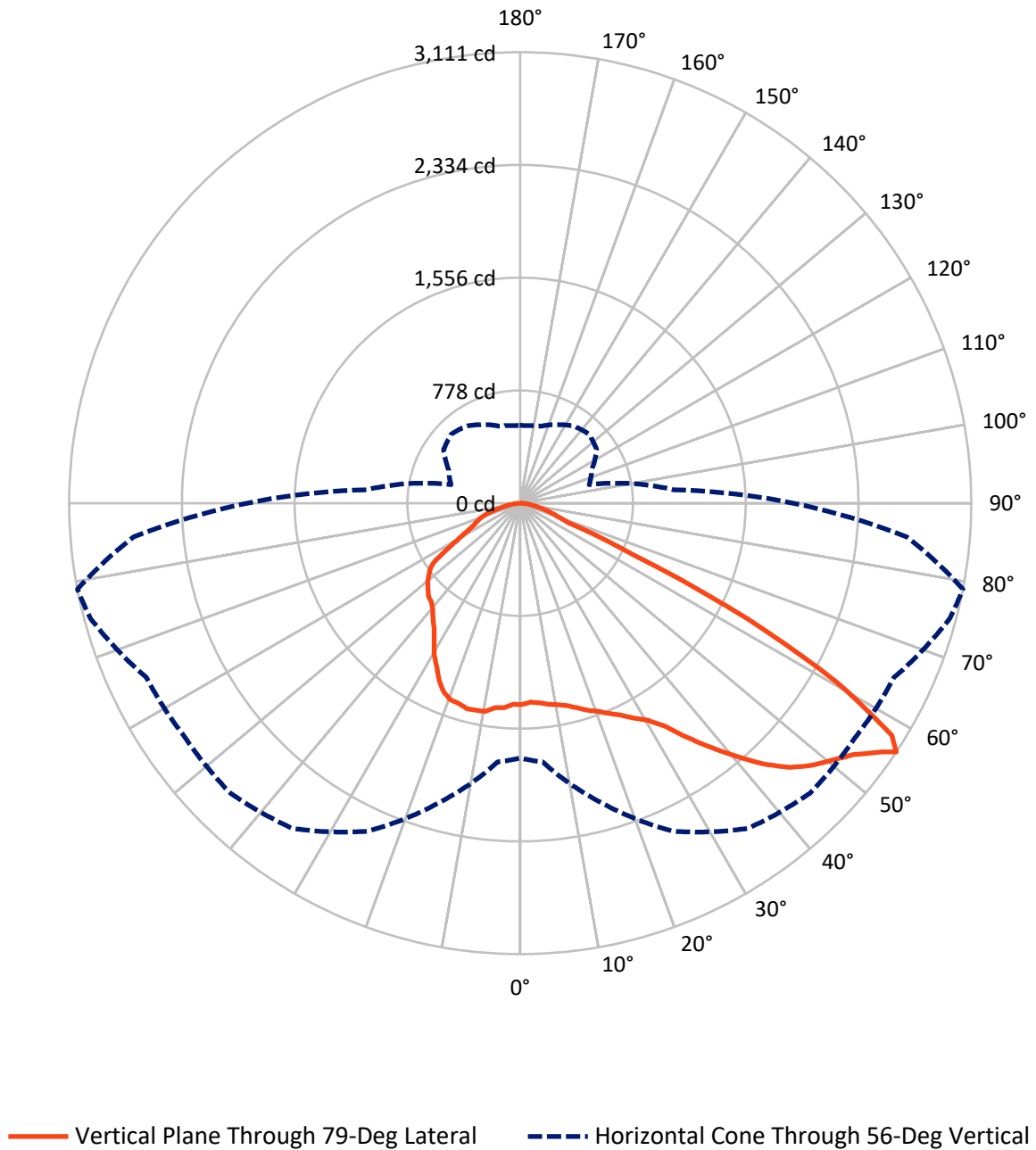
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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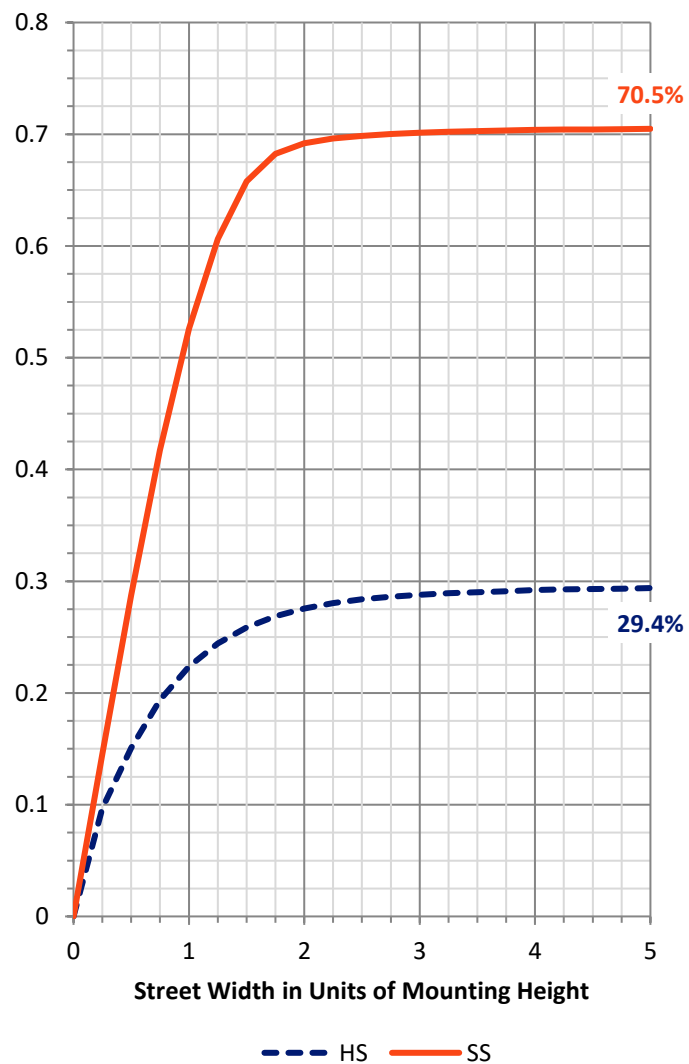
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.6	0.0	1603.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3826.4	0.0	3826.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	5430.0	0.0	5430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	2.3
10°-20°	345.7	6.4
20°-30°	591.4	10.9
30°-40°	906.4	16.7
40°-50°	1225.0	22.6
50°-60°	1407.0	25.9
60°-70°	641.3	11.8
70°-80°	158.1	2.9
80°-90°	28.7	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°	5430.0	100.0
0°-180°	5430.0	100.0

Coefficient of Utilization



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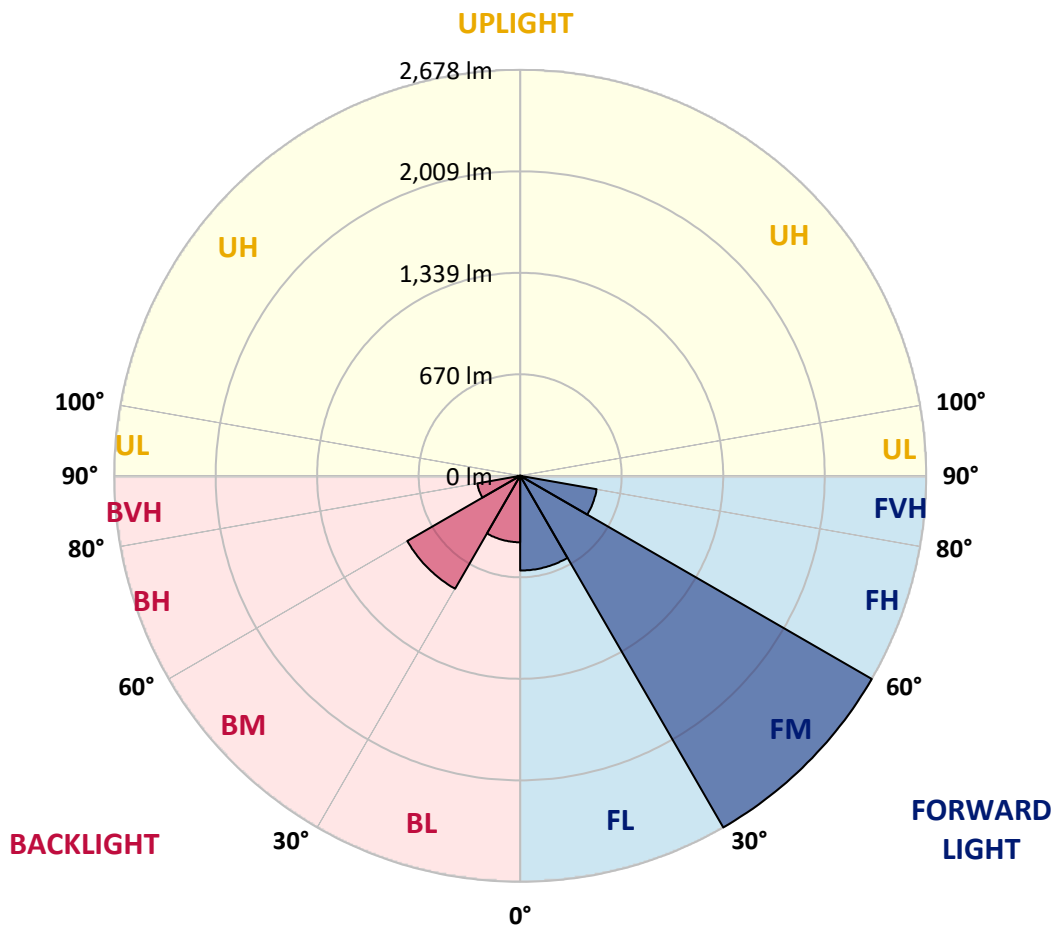
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.8	11.5			
FM	(30°-60°)	2678.2	49.3			
FH	(60°-80°)	511.9	9.4			G0/660
FVH	(80°-90°)	11.5	0.2			G1/100
BL	(0°-30°)	438.7	8.1	B1/500		
BM	(30°-60°)	860.1	15.8	B1/1000		
BH	(60°-80°)	287.5	5.3	B1/500		G1/500
BVH	(80°-90°)	17.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1321.7	1318.3	1326.4	1332.5	1339.9	1349.4	1354.1	1356.9	1380.5	1374.4	1392.7
5°	1293.3	1284.5	1290.6	1295.3	1308.2	1319.7	1332.5	1352.8	1374.4	1383.9	1406.2
7.5°	1268.2	1263.5	1262.2	1265.5	1283.1	1298.0	1320.3	1350.1	1385.3	1400.8	1413.7
10°	1227.0	1220.2	1230.4	1252.7	1257.4	1288.5	1314.2	1356.9	1387.3	1414.3	1452.2
12.5°	1208.7	1202.0	1204.0	1216.8	1250.0	1279.7	1310.2	1358.2	1422.5	1433.3	1484.0
15°	1237.8	1231.0	1233.1	1229.7	1261.5	1277.0	1325.1	1385.3	1446.8	1465.1	1519.2
17.5°	1304.1	1304.8	1296.0	1288.5	1281.1	1314.2	1347.4	1401.5	1456.3	1502.3	1542.9
20°	1430.6	1408.3	1390.7	1348.7	1337.2	1351.4	1393.4	1445.5	1494.8	1532.7	1578.7
22.5°	1528.0	1530.0	1505.0	1436.0	1411.0	1417.1	1452.9	1495.5	1549.6	1576.7	1629.4
25°	1669.4	1655.1	1628.1	1573.3	1517.2	1521.9	1548.3	1586.8	1601.7	1620.7	1678.1
27.5°	1798.5	1802.6	1749.2	1697.8	1628.1	1614.6	1661.9	1668.7	1643.6	1679.5	1699.1
30°	1929.8	1926.4	1891.2	1831.0	1762.7	1765.4	1786.4	1753.2	1718.7	1738.3	1751.9
32.5°	2065.7	2027.2	2025.8	1971.7	1919.6	1894.6	1868.9	1885.1	1831.7	1835.7	1822.9
35°	2174.6	2180.0	2148.9	2110.4	2084.7	2040.7	1970.3	1999.4	1989.3	1984.6	1929.1
37.5°	2253.8	2232.8	2248.3	2235.5	2211.1	2156.4	2083.3	2111.0	2115.8	2138.8	2074.5
40°	2318.7	2309.9	2351.2	2357.9	2341.0	2222.6	2091.4	2173.9	2245.0	2295.0	2218.6
42.5°	2349.8	2368.7	2412.0	2464.1	2426.2	2299.8	2133.4	2222.0	2380.2	2459.4	2355.2
45°	2391.7	2367.4	2431.7	2527.0	2527.7	2364.7	2173.9	2286.9	2485.8	2600.8	2448.6
47.5°	2349.1	2361.3	2427.6	2548.7	2579.8	2433.0	2283.5	2378.9	2602.1	2704.2	2535.1
50°	2253.8	2278.1	2399.2	2525.0	2619.0	2505.4	2409.3	2478.3	2709.7	2787.4	2549.3
52.5°	2154.3	2167.9	2357.2	2543.3	2636.6	2598.7	2577.8	2615.6	2840.9	2881.5	2566.9
55°	1883.8	1948.0	2218.6	2535.1	2722.5	2767.1	2750.9	2806.4	2989.7	3030.3	2663.0
56°	1758.6	1792.5	2135.4	2497.3	2739.4	2828.7	2820.6	2845.6	3068.8	3111.4	2677.9
57.5°	1527.3	1530.0	1820.9	2329.5	2675.8	2847.0	2838.8	2858.5	3053.3	3024.2	2547.3
60°	955.8	997.7	1239.2	1791.8	2275.4	2641.3	2687.3	2529.7	2574.4	2512.8	1981.8
62.5°	495.1	489.0	649.3	1047.7	1510.4	1891.2	1933.8	1926.4	1857.4	1767.4	1294.6
65°	246.9	248.2	339.6	518.8	773.8	990.2	1109.3	1122.1	938.8	863.8	614.2
67.5°	179.2	186.0	244.2	317.2	364.6	407.9	499.9	490.4	371.3	353.1	327.4
70°	139.3	145.4	198.2	242.2	219.8	219.8	239.4	247.6	264.5	271.9	280.7
72.5°	101.5	106.2	151.5	167.1	144.1	154.9	179.2	198.2	215.8	218.5	228.6
75°	69.7	73.7	99.4	92.0	86.6	106.9	131.2	148.8	161.7	168.4	174.5
77.5°	45.3	46.7	56.8	48.0	55.5	69.0	85.2	100.1	113.0	118.4	119.7
80°	20.3	22.3	24.4	30.4	38.6	49.4	60.9	73.1	81.2	83.2	87.3
82.5°	11.5	11.5	14.9	21.6	28.4	35.8	44.0	52.8	62.2	64.3	63.6
85°	6.1	6.1	8.8	12.9	17.6	21.0	20.3	21.0	22.3	25.7	25.0
87.5°	2.0	2.0	2.7	2.7	3.4	4.1	3.4	4.7	6.1	6.1	6.1
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°	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1387.3	1393.4	1385.3	1402.8	1402.8	1399.5	1382.6	1388.0	1392.0	1392.0	1395.4
5°	1413.7	1411.6	1417.1	1396.1	1383.2	1378.5	1350.8	1337.2	1325.7	1325.1	1314.9
7.5°	1428.6	1423.1	1421.1	1405.6	1348.7	1314.2	1254.7	1220.2	1212.8	1186.4	1196.5
10°	1452.2	1462.4	1452.2	1367.7	1288.5	1209.4	1151.2	1097.8	1076.8	1059.9	1049.8
12.5°	1500.9	1496.2	1437.3	1323.0	1212.1	1118.1	1031.5	975.4	954.4	939.5	938.2
15°	1542.2	1518.5	1428.6	1252.7	1093.1	993.0	921.9	882.0	872.6	873.9	880.0
17.5°	1556.4	1540.2	1382.6	1179.6	1004.5	886.8	853.6	847.5	856.3	866.5	869.2
20°	1578.7	1553.0	1363.6	1080.2	894.9	820.5	818.4	840.1	856.3	871.2	873.2
22.5°	1625.4	1560.5	1302.1	986.2	819.8	800.9	820.5	838.7	863.8	875.9	865.1
25°	1638.9	1544.2	1215.5	873.2	772.4	788.7	809.6	834.7	852.3	859.0	863.8
27.5°	1650.4	1519.2	1098.5	798.1	757.6	788.0	809.6	830.6	840.1	846.2	851.6
30°	1682.9	1511.8	997.0	748.1	748.1	774.5	802.2	807.6	820.5	827.9	837.4
32.5°	1699.1	1460.3	892.8	716.3	738.6	781.2	783.3	793.4	794.1	800.2	790.0
35°	1741.7	1423.8	796.1	693.3	742.7	774.5	784.6	778.5	745.4	729.2	732.5
37.5°	1772.8	1405.6	726.5	690.6	743.4	781.9	787.3	741.3	706.8	679.8	686.5
40°	1856.7	1360.2	673.7	685.9	749.4	790.0	775.2	725.1	662.9	635.1	630.4
42.5°	1921.0	1327.8	640.5	680.5	754.2	801.5	769.1	692.6	629.1	603.3	610.1
45°	1995.4	1320.3	623.0	681.8	762.3	807.6	761.6	667.6	600.0	589.8	587.8
47.5°	2021.8	1266.9	604.0	670.3	760.3	805.6	736.6	648.7	589.1	590.5	595.9
50°	1977.8	1212.1	589.8	646.6	746.7	787.3	697.4	623.6	583.1	600.0	609.4
52.5°	1921.6	1156.0	560.7	614.8	719.0	758.9	679.1	622.3	577.0	571.6	573.6
55°	1938.6	1110.0	520.2	571.6	674.4	706.2	658.8	609.4	562.1	541.8	548.6
56°	1883.8	1062.6	493.8	544.5	643.9	672.3	648.7	597.9	549.9	536.4	536.4
57.5°	1728.9	903.7	459.3	501.2	579.7	613.5	629.1	591.2	536.4	512.7	513.4
60°	1275.0	642.6	411.9	441.7	480.2	507.3	579.7	572.2	502.6	486.3	480.2
62.5°	786.0	469.4	378.1	389.6	409.2	431.5	505.9	518.1	466.7	449.1	445.1
65°	440.3	359.2	352.4	357.1	366.6	378.1	420.0	447.1	411.9	384.9	383.5
67.5°	322.0	321.3	326.7	330.8	334.8	334.8	345.0	355.8	351.1	329.4	327.4
70°	286.1	288.1	292.2	292.9	294.2	289.5	281.4	278.0	283.4	269.9	267.2
72.5°	236.1	242.8	247.6	248.2	240.8	234.7	223.9	212.4	208.3	205.6	204.9
75°	181.3	186.0	188.0	187.4	184.7	175.9	163.0	151.5	144.1	136.0	140.0
77.5°	122.4	129.2	132.6	132.6	128.5	115.0	108.9	100.1	92.7	83.9	85.2
80°	85.9	90.6	96.0	95.4	88.6	81.8	73.1	64.9	58.8	52.1	51.4
82.5°	64.3	67.0	69.7	68.3	63.6	56.8	50.7	43.3	36.5	31.8	31.8
85°	23.0	25.0	30.4	31.8	34.5	34.5	29.1	24.4	19.6	16.2	16.2
87.5°	6.8	6.8	7.4	7.4	6.8	7.4	6.1	6.8	7.4	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

(END OF REPORT)