

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: P526712

Luminaire Tested: **GALN-SA1C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526712
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-SA1C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4935 lumens
Efficiency: N/A
Efficacy: 86.6 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): 57
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

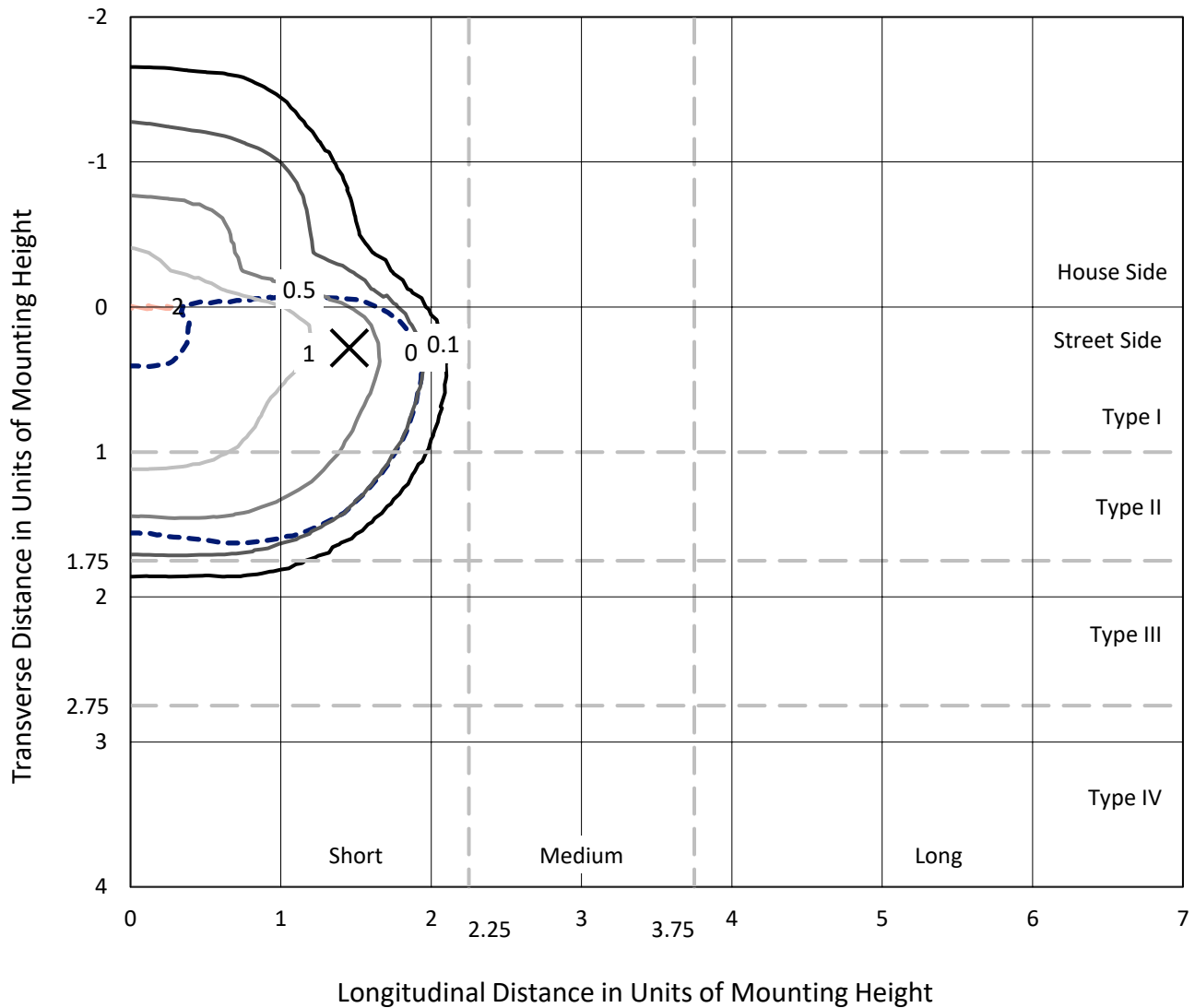


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Iso-Footcandle Lines of Horizontal Illumination

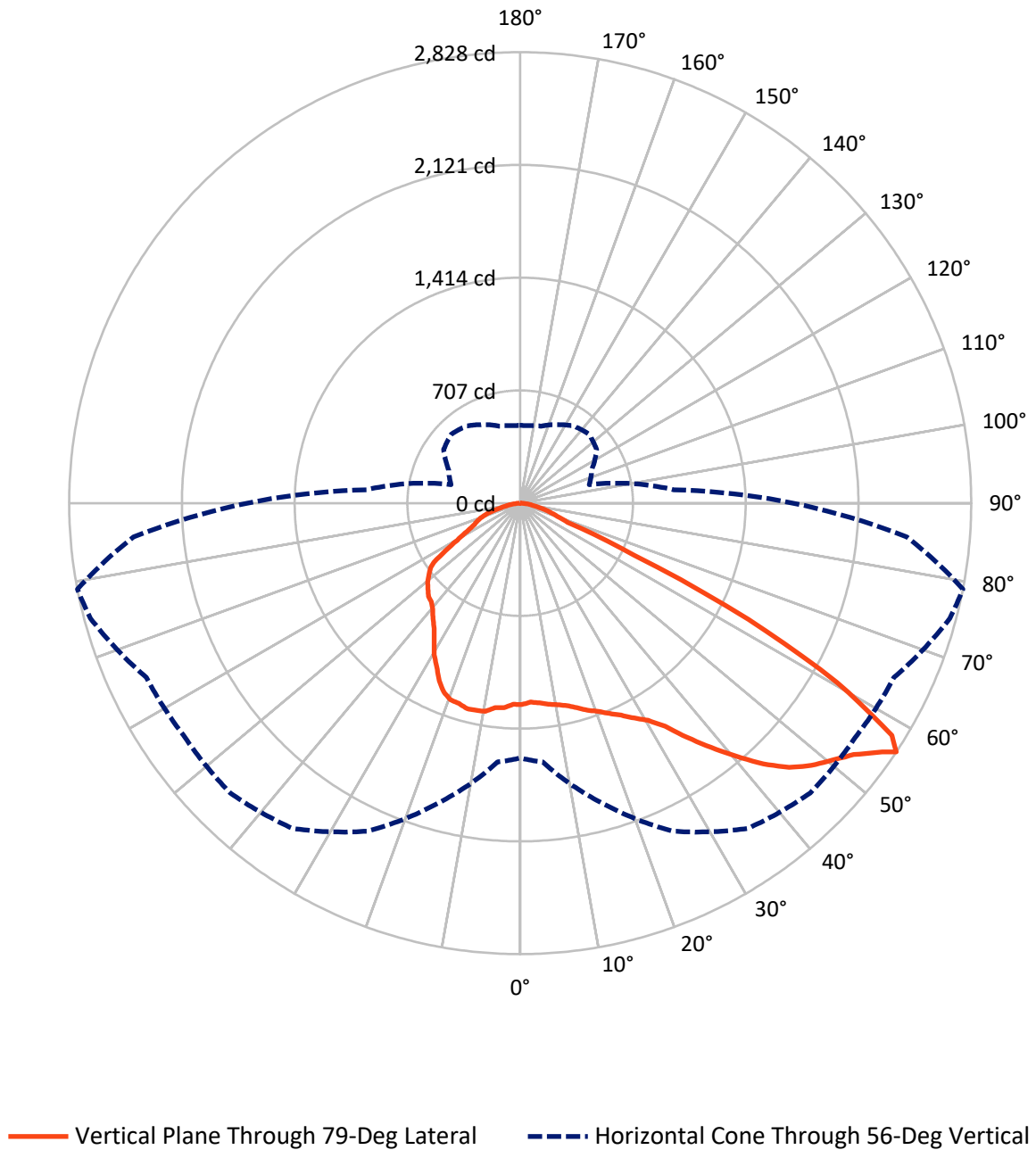
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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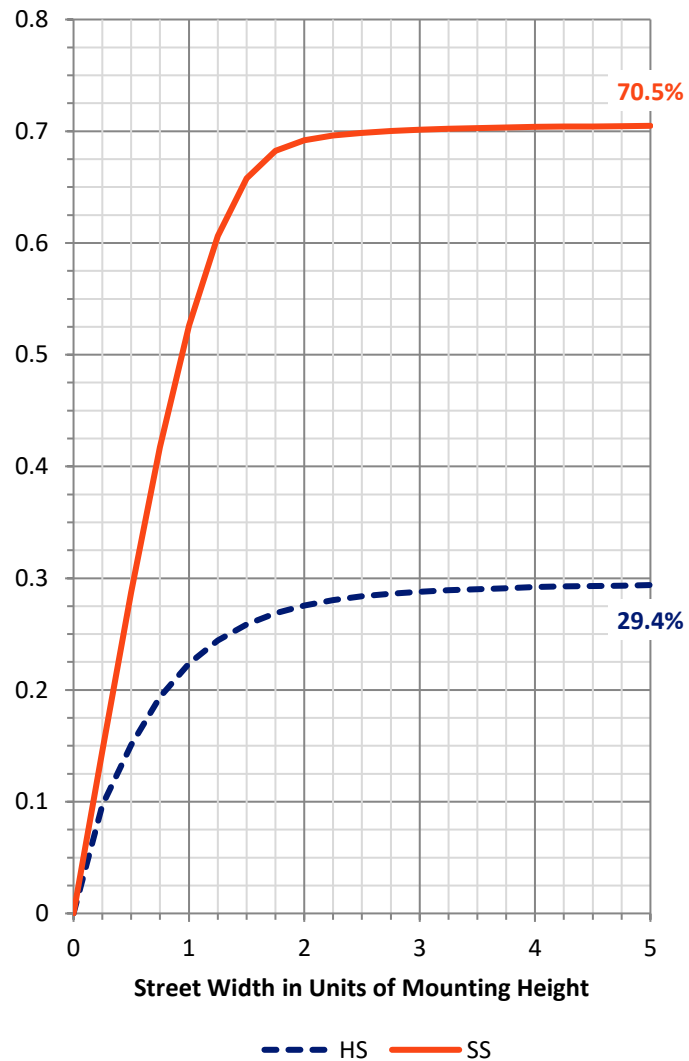
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1457.4	0.0	1457.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3477.6	0.0	3477.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	4935.0	0.0	4935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	2.3
10°-20°	314.2	6.4
20°-30°	537.5	10.9
30°-40°	823.8	16.7
40°-50°	1113.3	22.6
50°-60°	1278.7	25.9
60°-70°	582.9	11.8
70°-80°	143.7	2.9
80°-90°	26.1	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°	4935.0	100.0
0°-180°	4935.0	100.0

Coefficient of Utilization



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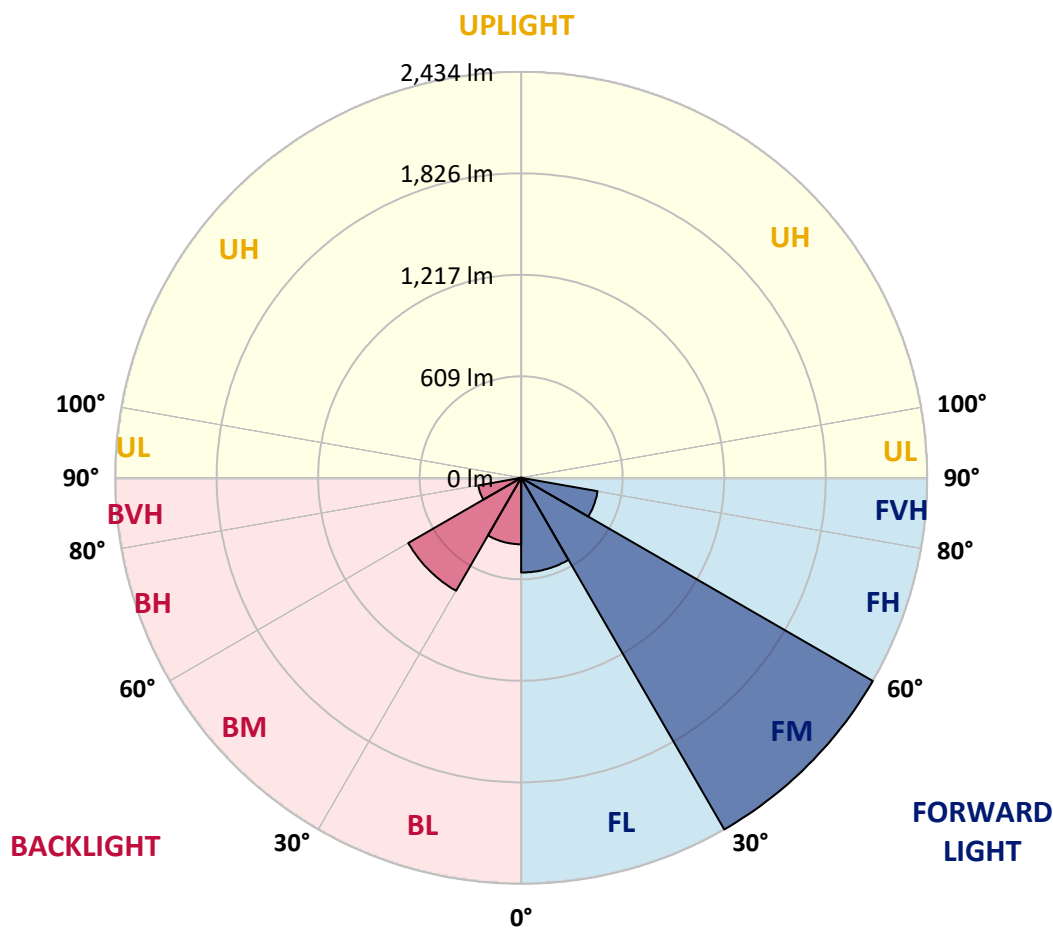
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.8	11.5			
FM	(30°-60°)	2434.1	49.3			
FH	(60°-80°)	465.3	9.4			G0/660
FVH	(80°-90°)	10.4	0.2			G1/100
BL	(0°-30°)	398.7	8.1	B1/500		
BM	(30°-60°)	781.7	15.8	B1/1000		
BH	(60°-80°)	261.3	5.3	B1/500		G1/500
BVH	(80°-90°)	15.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
2.5°	1201.2	1198.1	1205.5	1211.0	1217.8	1226.4	1230.7	1233.2	1254.7	1249.1	1265.7
5°	1175.4	1167.4	1172.9	1177.2	1188.9	1199.4	1211.0	1229.5	1249.1	1257.8	1278.0
7.5°	1152.6	1148.3	1147.1	1150.2	1166.2	1179.7	1200.0	1227.0	1259.0	1273.1	1284.8
10°	1115.1	1109.0	1118.2	1138.5	1142.8	1171.1	1194.4	1233.2	1260.8	1285.4	1319.8
12.5°	1098.5	1092.4	1094.2	1105.9	1136.0	1163.1	1190.7	1234.4	1292.8	1302.6	1348.7
15°	1125.0	1118.8	1120.7	1117.6	1146.5	1160.6	1204.3	1259.0	1314.9	1331.5	1380.7
17.5°	1185.2	1185.8	1177.8	1171.1	1164.3	1194.4	1224.6	1273.7	1323.5	1365.3	1402.2
20°	1300.2	1279.9	1263.9	1225.8	1215.3	1228.2	1266.4	1313.7	1358.6	1393.0	1434.8
22.5°	1388.7	1390.5	1367.8	1305.1	1282.3	1287.9	1320.5	1359.2	1408.4	1433.0	1480.9
25°	1517.2	1504.3	1479.7	1429.9	1378.9	1383.2	1407.1	1442.2	1455.7	1472.9	1525.2
27.5°	1634.6	1638.3	1589.7	1543.0	1479.7	1467.4	1510.4	1516.6	1493.8	1526.4	1544.2
30°	1753.8	1750.8	1718.8	1664.1	1602.0	1604.5	1623.5	1593.4	1562.0	1579.9	1592.2
32.5°	1877.4	1842.4	1841.1	1792.0	1744.6	1721.9	1698.5	1713.3	1664.7	1668.4	1656.7
35°	1976.4	1981.3	1953.0	1918.0	1894.6	1854.7	1790.7	1817.2	1807.9	1803.6	1753.2
37.5°	2048.3	2029.2	2043.4	2031.7	2009.6	1959.8	1893.4	1918.6	1922.9	1943.8	1885.4
40°	2107.3	2099.3	2136.8	2143.0	2127.6	2020.0	1900.8	1975.8	2040.3	2085.8	2016.3
42.5°	2135.6	2152.8	2192.2	2239.5	2205.1	2090.1	1938.9	2019.4	2163.3	2235.2	2140.5
45°	2173.7	2151.6	2210.0	2296.7	2297.3	2149.1	1975.8	2078.4	2259.2	2363.7	2225.4
47.5°	2135.0	2146.0	2206.3	2316.3	2344.6	2211.2	2075.4	2162.0	2364.9	2457.7	2304.0
50°	2048.3	2070.4	2180.5	2294.8	2380.3	2277.0	2189.7	2252.4	2462.6	2533.3	2316.9
52.5°	1957.9	1970.2	2142.4	2311.4	2396.2	2361.8	2342.8	2377.2	2581.9	2618.8	2332.9
55°	1712.0	1770.4	2016.3	2304.0	2474.3	2514.9	2500.1	2550.5	2717.1	2754.0	2420.2
56°	1598.3	1629.1	1940.7	2269.6	2489.7	2570.8	2563.5	2586.2	2789.1	2827.8	2433.7
57.5°	1388.1	1390.5	1654.9	2117.2	2431.9	2587.4	2580.1	2597.9	2774.9	2748.5	2315.1
60°	868.6	906.7	1126.2	1628.4	2068.0	2400.6	2442.4	2299.1	2339.7	2283.8	1801.2
62.5°	450.0	444.5	590.1	952.2	1372.7	1718.8	1757.5	1750.8	1688.1	1606.3	1176.6
65°	224.4	225.6	308.6	471.5	703.3	900.0	1008.2	1019.8	853.3	785.0	558.2
67.5°	162.9	169.1	221.9	288.3	331.3	370.7	454.3	445.7	337.5	320.9	297.5
70°	126.6	132.2	180.1	220.1	199.8	199.8	217.6	225.0	240.4	247.1	255.1
72.5°	92.2	96.5	137.7	151.8	130.9	140.8	162.9	180.1	196.1	198.6	207.8
75°	63.3	67.0	90.4	83.6	78.7	97.1	119.3	135.2	146.9	153.1	158.6
77.5°	41.2	42.4	51.6	43.6	50.4	62.7	77.5	91.0	102.7	107.6	108.8
80°	18.4	20.3	22.1	27.7	35.0	44.9	55.3	66.4	73.8	75.6	79.3
82.5°	10.5	10.5	13.5	19.7	25.8	32.6	40.0	47.9	56.6	58.4	57.8
85°	5.5	5.5	8.0	11.7	16.0	19.1	18.4	19.1	20.3	23.4	22.7
87.5°	1.8	1.8	2.5	2.5	3.1	3.7	3.1	4.3	5.5	5.5	5.5
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°	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7	1262.7
2.5°	1260.8	1266.4	1259.0	1275.0	1275.0	1271.9	1256.5	1261.4	1265.1	1265.1	1268.2
5°	1284.8	1283.0	1287.9	1268.8	1257.1	1252.8	1227.6	1215.3	1204.9	1204.3	1195.0
7.5°	1298.3	1293.4	1291.6	1277.4	1225.8	1194.4	1140.3	1109.0	1102.2	1078.2	1087.5
10°	1319.8	1329.1	1319.8	1243.0	1171.1	1099.2	1046.3	997.7	978.7	963.3	954.1
12.5°	1364.1	1359.8	1306.3	1202.4	1101.6	1016.2	937.5	886.5	867.4	853.9	852.6
15°	1401.6	1380.1	1298.3	1138.5	993.4	902.4	837.9	801.6	793.0	794.2	799.8
17.5°	1414.5	1399.8	1256.5	1072.1	912.9	805.9	775.8	770.3	778.3	787.5	789.9
20°	1434.8	1411.4	1239.3	981.7	813.3	745.7	743.8	763.5	778.3	791.8	793.6
22.5°	1477.2	1418.2	1183.4	896.3	745.1	727.8	745.7	762.3	785.0	796.1	786.2
25°	1489.5	1403.4	1104.7	793.6	702.0	716.8	735.8	758.6	774.6	780.7	785.0
27.5°	1500.0	1380.7	998.3	725.4	688.5	716.2	735.8	754.9	763.5	769.0	774.0
30°	1529.5	1373.9	906.1	679.9	679.9	703.9	729.1	734.0	745.7	752.4	761.0
32.5°	1544.2	1327.2	811.5	651.0	671.3	710.0	711.9	721.1	721.7	727.2	718.0
35°	1582.9	1294.0	723.5	630.1	675.0	703.9	713.1	707.6	677.4	662.7	665.8
37.5°	1611.2	1277.4	660.2	627.6	675.6	710.6	715.6	673.8	642.4	617.8	624.0
40°	1687.5	1236.2	612.3	623.3	681.1	718.0	704.5	659.0	602.4	577.2	572.9
42.5°	1745.9	1206.7	582.2	618.4	685.4	728.5	699.0	629.5	571.7	548.3	554.5
45°	1813.5	1200.0	566.2	619.7	692.8	734.0	692.2	606.7	545.3	536.1	534.2
47.5°	1837.5	1151.4	549.0	609.2	691.0	732.2	669.4	589.5	535.4	536.7	541.6
50°	1797.5	1101.6	536.1	587.7	678.7	715.6	633.8	566.8	529.9	545.3	553.9
52.5°	1746.5	1050.6	509.6	558.8	653.5	689.7	617.2	565.6	524.4	519.5	521.3
55°	1761.8	1008.8	472.7	519.5	612.9	641.8	598.8	553.9	510.8	492.4	498.6
56°	1712.0	965.8	448.8	494.9	585.2	611.0	589.5	543.4	499.8	487.5	487.5
57.5°	1571.3	821.3	417.4	455.5	526.8	557.6	571.7	537.3	487.5	466.0	466.6
60°	1158.8	584.0	374.4	401.4	436.5	461.1	526.8	520.1	456.8	442.0	436.5
62.5°	714.3	426.6	343.6	354.1	371.9	392.2	459.8	470.9	424.2	408.2	404.5
65°	400.2	326.4	320.3	324.6	333.2	343.6	381.8	406.3	374.4	349.8	348.6
67.5°	292.6	292.0	296.9	300.6	304.3	304.3	313.5	323.4	319.0	299.4	297.5
70°	260.0	261.9	265.6	266.2	267.4	263.1	255.7	252.7	257.6	245.3	242.8
72.5°	214.5	220.7	225.0	225.6	218.8	213.3	203.5	193.0	189.3	186.9	186.3
75°	164.7	169.1	170.9	170.3	167.8	159.8	148.2	137.7	130.9	123.6	127.3
77.5°	111.3	117.4	120.5	120.5	116.8	104.5	99.0	91.0	84.2	76.2	77.5
80°	78.1	82.4	87.3	86.7	80.5	74.4	66.4	59.0	53.5	47.3	46.7
82.5°	58.4	60.9	63.3	62.1	57.8	51.6	46.1	39.3	33.2	28.9	28.9
85°	20.9	22.7	27.7	28.9	31.4	31.4	26.4	22.1	17.8	14.8	14.8
87.5°	6.1	6.1	6.8	6.8	6.1	6.8	5.5	6.1	6.8	4.3	4.3
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)