

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: P526944

Luminaire Tested: **GALN-SA1D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5303 lumens
Efficiency: N/A
Efficacy: 81.6 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): 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

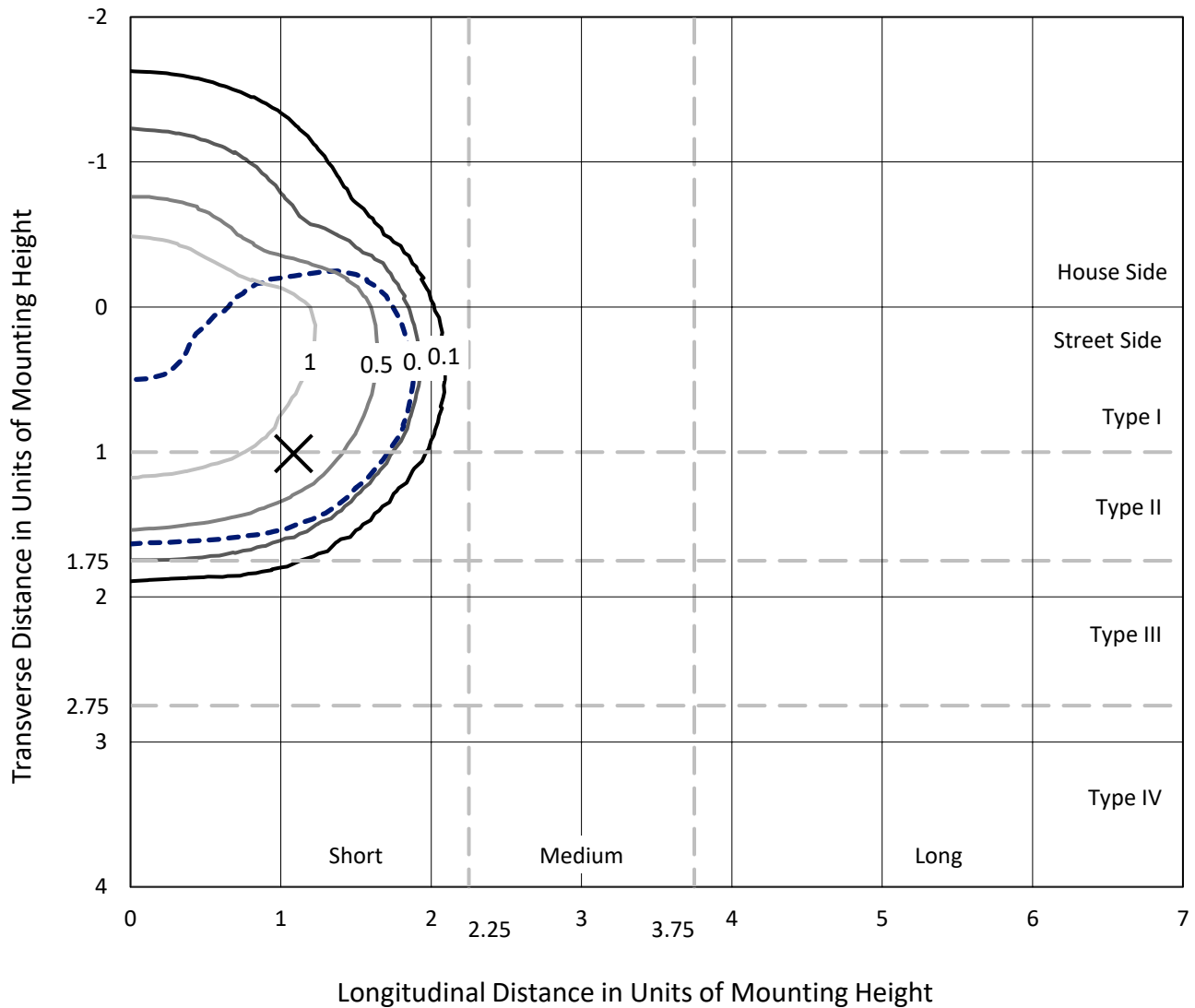


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

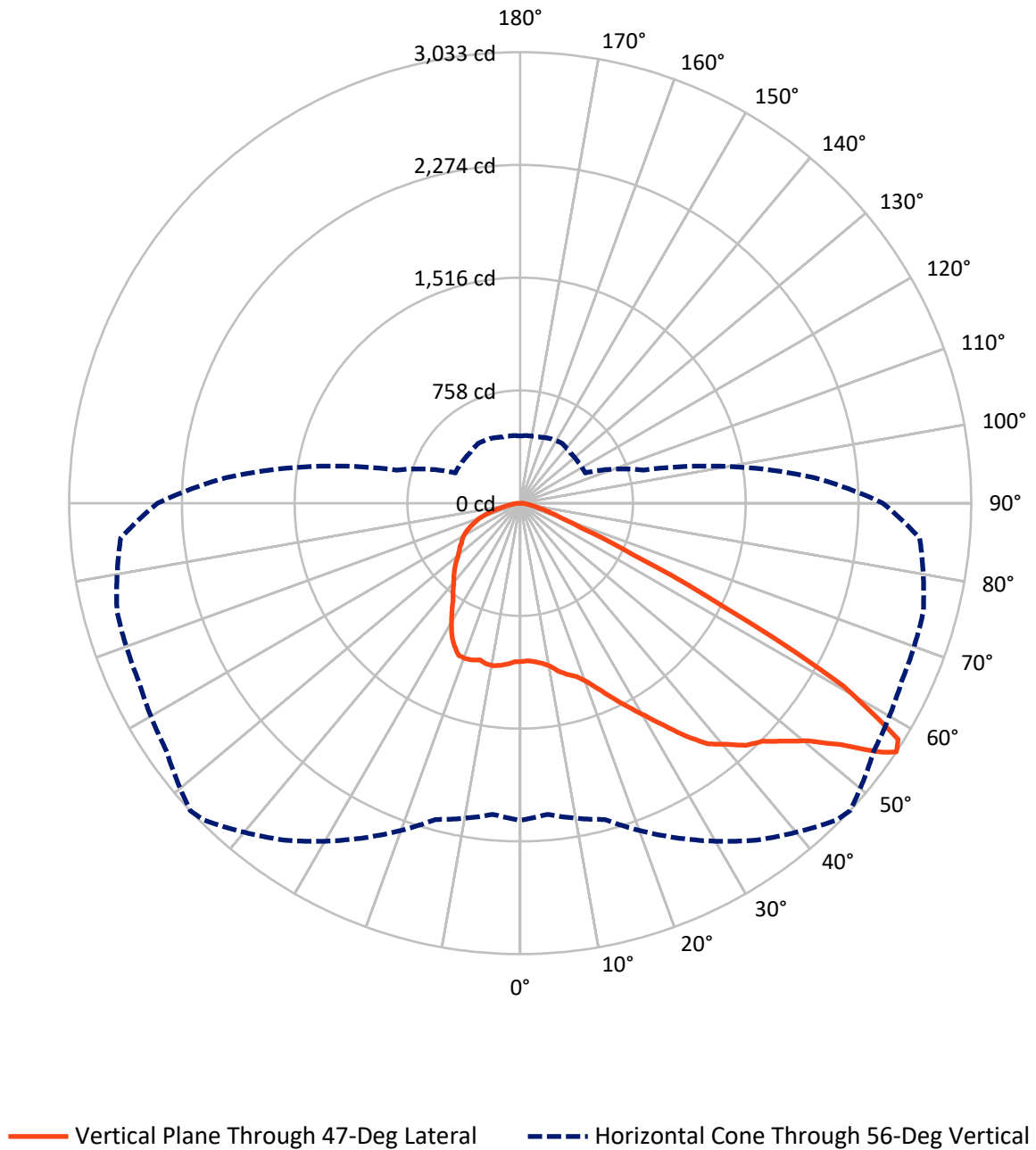


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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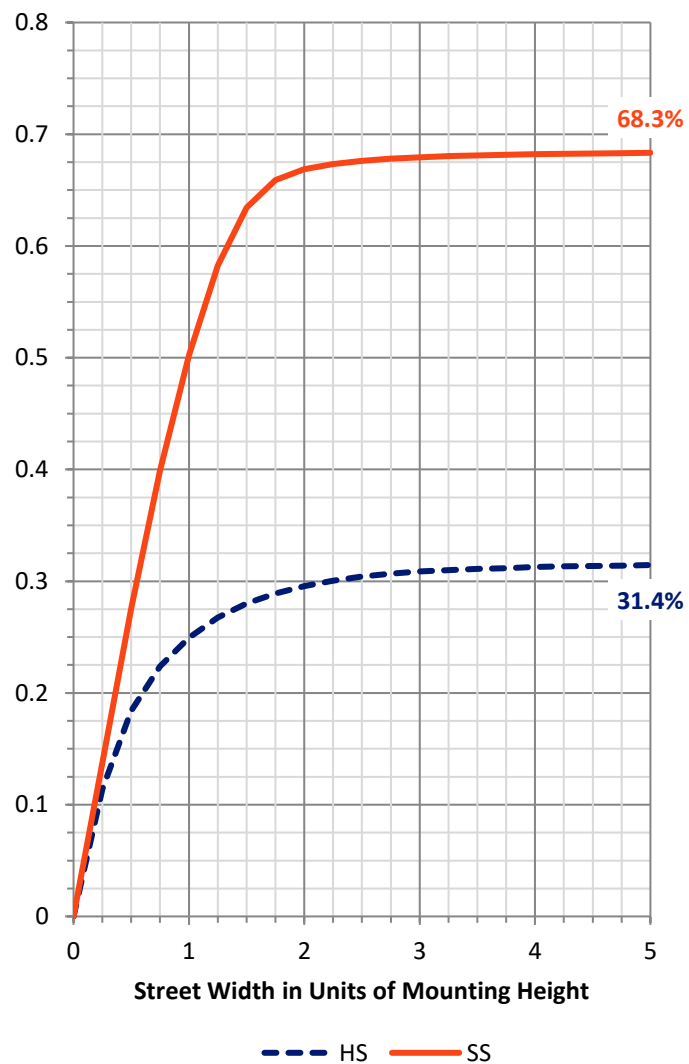
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.5	0.0	1680.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3622.5	0.0	3622.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	5303.0	0.0	5303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	2.0
10°-20°	327.4	6.2
20°-30°	578.8	10.9
30°-40°	869.3	16.4
40°-50°	1193.0	22.5
50°-60°	1421.3	26.8
60°-70°	608.2	11.5
70°-80°	172.1	3.2
80°-90°	29.0	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°	5303.0	100.0
0°-180°	5303.0	100.0

Coefficient of Utilization



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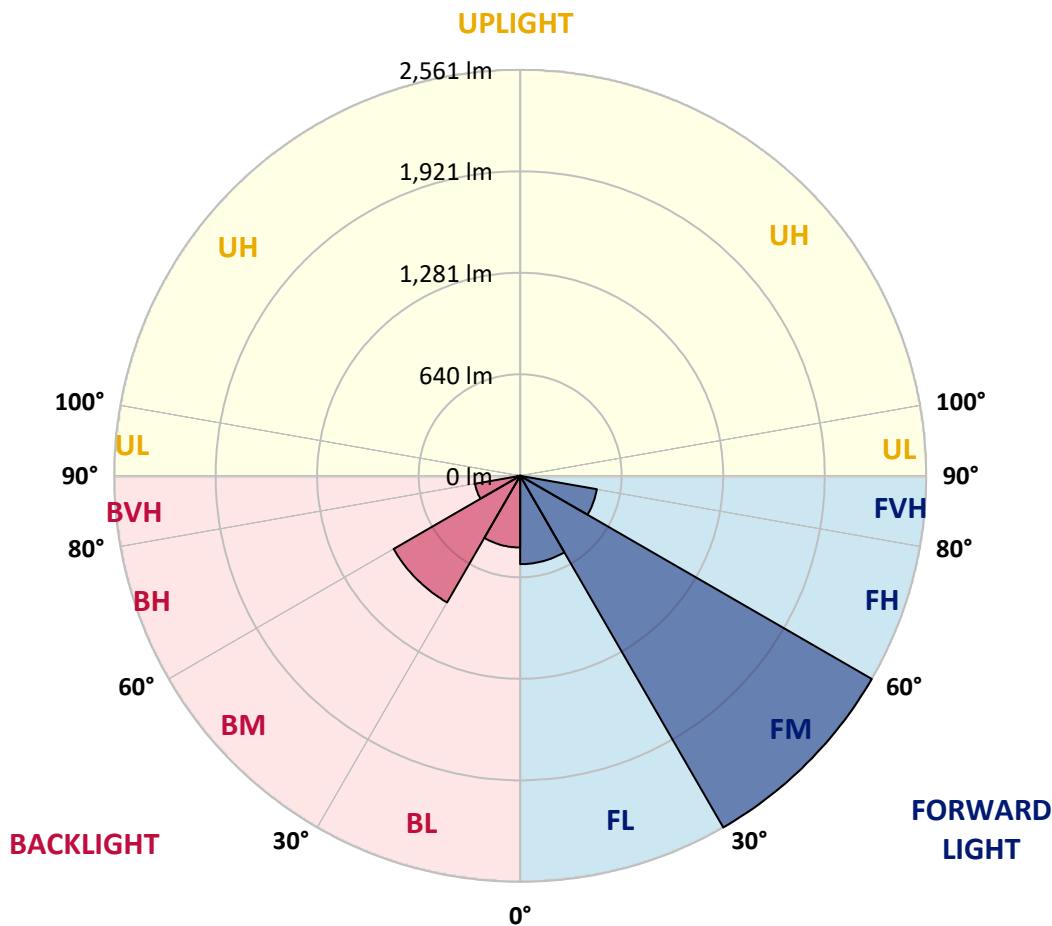
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	557.5	10.5			
FM	(30°-60°)	2561.5	48.3			
FH	(60°-80°)	491.2	9.3			G0/660
FVH	(80°-90°)	12.3	0.2			G1/100
BL	(0°-30°)	452.4	8.5	B1/500		
BM	(30°-60°)	922.2	17.4	B1/1000		
BH	(60°-80°)	289.1	5.5	B1/500		G1/500
BVH	(80°-90°)	16.7	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°	47°	55°	65°	75°	85°
0°	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2
2.5°	1061.2	1059.1	1057.8	1068.6	1064.5	1065.2	1061.2	1065.2	1067.9	1061.8	1070.6
5°	1059.1	1065.2	1059.8	1063.2	1072.0	1069.3	1072.0	1080.1	1078.1	1076.0	1073.3
7.5°	1078.1	1078.7	1082.8	1084.1	1086.9	1084.1	1088.2	1095.6	1093.6	1082.1	1083.5
10°	1105.1	1106.5	1107.1	1114.6	1119.3	1120.0	1115.3	1108.5	1107.8	1123.4	1112.6
12.5°	1136.2	1132.8	1141.0	1143.7	1149.1	1155.2	1161.2	1147.0	1155.8	1156.5	1143.7
15°	1181.5	1184.9	1175.5	1175.5	1177.5	1178.2	1195.1	1188.3	1187.0	1179.5	1184.9
17.5°	1249.2	1226.2	1225.5	1216.0	1214.7	1220.1	1226.2	1231.6	1249.8	1235.0	1205.9
20°	1298.5	1304.0	1284.3	1272.8	1274.9	1287.0	1281.0	1305.3	1318.2	1293.8	1265.4
22.5°	1385.8	1367.5	1372.3	1346.6	1348.6	1361.4	1360.8	1385.8	1393.2	1354.7	1313.4
25°	1444.6	1439.9	1444.0	1423.7	1426.4	1436.5	1452.7	1494.0	1481.8	1439.2	1343.9
27.5°	1530.5	1521.1	1517.7	1510.2	1507.5	1534.6	1553.5	1597.5	1588.7	1526.5	1398.0
30°	1618.4	1612.4	1615.7	1585.3	1596.1	1653.6	1659.0	1719.2	1715.2	1605.6	1458.2
32.5°	1679.3	1682.7	1688.8	1671.9	1719.9	1765.9	1784.1	1852.5	1855.8	1741.5	1574.5
35°	1777.4	1765.9	1769.3	1788.9	1811.2	1895.1	1924.8	1970.1	1998.5	1884.2	1686.1
37.5°	1838.9	1851.1	1836.9	1868.0	1926.2	2026.9	2054.0	2100.7	2130.4	2024.9	1838.3
40°	1935.0	1915.4	1925.5	1947.8	2007.3	2138.5	2131.1	2179.1	2188.6	2144.6	1980.3
42.5°	2038.4	2029.0	2014.8	2065.5	2115.5	2210.9	2225.8	2203.5	2251.5	2261.6	2183.2
45°	2162.2	2173.7	2175.7	2177.1	2221.1	2304.2	2283.9	2264.3	2319.8	2393.5	2309.0
47.5°	2277.2	2240.7	2267.0	2303.6	2365.8	2366.5	2390.1	2343.5	2402.3	2467.9	2422.6
50°	2315.7	2298.2	2333.3	2402.3	2498.3	2508.5	2511.2	2444.9	2475.3	2527.4	2461.8
52.5°	2300.9	2294.8	2384.7	2491.6	2632.3	2683.7	2697.2	2615.3	2632.3	2608.6	2548.4
55°	2229.8	2248.1	2338.7	2556.5	2772.3	2931.2	2956.9	2853.4	2745.9	2764.1	2697.9
56°	2132.5	2100.7	2202.1	2482.8	2766.2	3011.7	3032.6	2903.5	2830.4	2806.7	2696.5
57.5°	1809.2	1767.9	1901.1	2233.9	2612.6	2981.2	2996.8	2924.4	2816.2	2768.2	2499.7
60°	1059.1	1079.4	1248.5	1540.7	2015.4	2444.2	2496.3	2549.1	2476.7	2261.6	1860.6
62.5°	511.3	498.5	619.5	883.3	1228.2	1560.3	1544.7	1692.8	1774.0	1606.9	1174.8
65°	267.8	266.5	338.2	482.2	675.0	819.7	833.9	913.7	1025.3	827.8	596.5
67.5°	196.8	202.2	238.1	338.8	434.2	443.0	441.0	480.9	491.7	415.9	366.6
70°	154.2	156.9	183.3	257.7	323.3	289.5	283.4	288.1	319.9	333.4	317.2
72.5°	111.6	114.3	136.6	173.8	202.2	197.5	201.5	227.9	267.1	281.4	264.4
75°	74.4	76.4	88.6	106.2	119.7	129.2	136.6	167.1	203.6	211.7	203.6
77.5°	51.4	53.4	61.5	75.1	76.4	82.5	85.2	99.4	121.7	131.9	126.5
80°	29.1	29.1	33.1	38.6	47.3	55.5	56.8	68.3	78.5	85.2	86.6
82.5°	13.5	14.2	17.6	23.7	31.1	38.6	39.9	47.3	54.8	61.5	63.6
85°	6.8	7.4	10.1	14.2	18.9	23.0	22.3	23.0	24.3	23.0	23.7
87.5°	2.0	2.0	2.7	3.4	2.7	3.4	3.4	4.1	4.7	5.4	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°	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2
2.5°	1071.3	1073.3	1059.8	1072.7	1067.9	1067.2	1076.7	1075.4	1078.7	1077.4	1069.3
5°	1072.0	1067.2	1081.4	1068.6	1074.7	1087.5	1078.7	1099.0	1088.9	1095.6	1080.8
7.5°	1092.9	1094.3	1091.6	1097.0	1094.3	1100.4	1095.6	1100.4	1092.3	1092.9	1106.5
10°	1111.2	1107.1	1111.9	1105.1	1109.8	1107.8	1097.0	1093.6	1096.3	1092.9	1101.7
12.5°	1145.0	1137.6	1134.2	1126.1	1120.7	1100.4	1083.5	1074.0	1086.9	1088.9	1084.8
15°	1179.5	1180.2	1164.6	1146.4	1112.6	1082.1	1086.2	1089.6	1089.6	1095.0	1084.8
17.5°	1201.2	1201.2	1187.0	1150.4	1115.9	1098.4	1094.3	1083.5	1074.0	1072.7	1072.0
20°	1239.0	1227.5	1195.1	1149.8	1114.6	1106.5	1076.0	1050.3	1030.7	1024.0	1023.3
22.5°	1282.3	1253.2	1207.9	1151.1	1112.6	1101.1	1044.2	1005.7	970.5	955.6	957.7
25°	1322.2	1275.5	1215.4	1145.0	1105.1	1049.7	986.1	932.7	896.1	884.0	877.9
27.5°	1349.9	1299.2	1215.4	1150.4	1077.4	992.2	927.2	858.9	827.1	819.0	820.4
30°	1387.1	1329.0	1236.3	1138.9	1021.9	917.8	840.0	795.4	776.4	769.7	774.4
32.5°	1474.4	1406.8	1265.4	1111.2	956.3	843.4	780.5	755.5	727.7	714.2	709.5
35°	1569.1	1480.5	1293.8	1064.5	882.6	775.7	736.5	713.5	680.4	665.5	668.2
37.5°	1703.0	1575.2	1295.8	987.4	802.8	737.9	702.0	666.2	639.1	616.1	609.4
40°	1883.6	1704.3	1291.1	906.3	738.5	693.2	666.9	622.2	591.8	575.6	578.9
42.5°	2042.5	1855.8	1271.5	814.3	680.4	662.8	633.0	589.1	559.3	542.4	541.1
45°	2176.4	1967.4	1234.3	735.8	631.7	629.0	594.5	560.7	537.0	521.4	528.2
47.5°	2300.2	2057.4	1178.2	657.4	587.0	592.5	559.3	538.4	523.5	509.3	508.6
50°	2344.8	2056.0	1128.8	592.5	551.2	548.5	547.1	524.8	509.3	497.1	502.5
52.5°	2419.2	2079.0	1075.4	547.8	518.7	519.4	524.2	507.9	490.3	482.9	489.7
55°	2526.1	2082.4	957.7	495.7	491.7	496.4	496.4	485.6	470.7	464.6	461.3
56°	2438.8	1981.6	858.9	482.2	478.2	478.2	491.0	478.8	460.6	455.8	451.8
57.5°	2249.5	1736.1	718.9	466.0	459.9	469.4	476.1	463.3	446.4	439.6	443.7
60°	1551.5	1174.8	540.4	430.8	430.8	446.4	451.8	432.8	425.4	424.7	419.3
62.5°	905.6	684.4	422.7	399.0	400.4	413.2	417.3	406.5	397.0	408.5	413.9
65°	480.2	408.5	362.5	365.2	365.9	376.0	393.6	392.9	392.3	395.7	396.3
67.5°	347.6	339.5	329.4	326.7	328.0	335.5	353.0	366.6	365.9	357.8	351.7
70°	309.8	298.3	292.2	292.8	287.4	296.2	310.4	319.2	303.7	294.2	290.1
72.5°	257.7	254.3	250.2	250.9	240.1	238.1	221.8	221.8	217.8	215.1	219.8
75°	196.8	195.5	197.5	194.1	182.6	170.4	161.0	152.2	138.6	133.2	130.5
77.5°	124.4	128.5	133.2	125.8	121.1	112.3	102.8	94.0	83.2	77.1	77.1
80°	84.5	87.9	91.3	90.0	84.5	76.4	69.0	59.5	52.1	47.3	46.7
82.5°	64.3	67.0	71.7	66.3	60.9	54.1	48.0	41.3	34.5	29.1	29.1
85°	23.0	26.4	29.1	31.8	33.8	34.5	29.8	24.3	19.6	15.6	14.9
87.5°	6.1	6.8	7.4	6.8	6.8	6.8	7.4	6.8	6.1	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)