

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: P527174

Luminaire Tested: **GALN-SA2A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6130 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
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



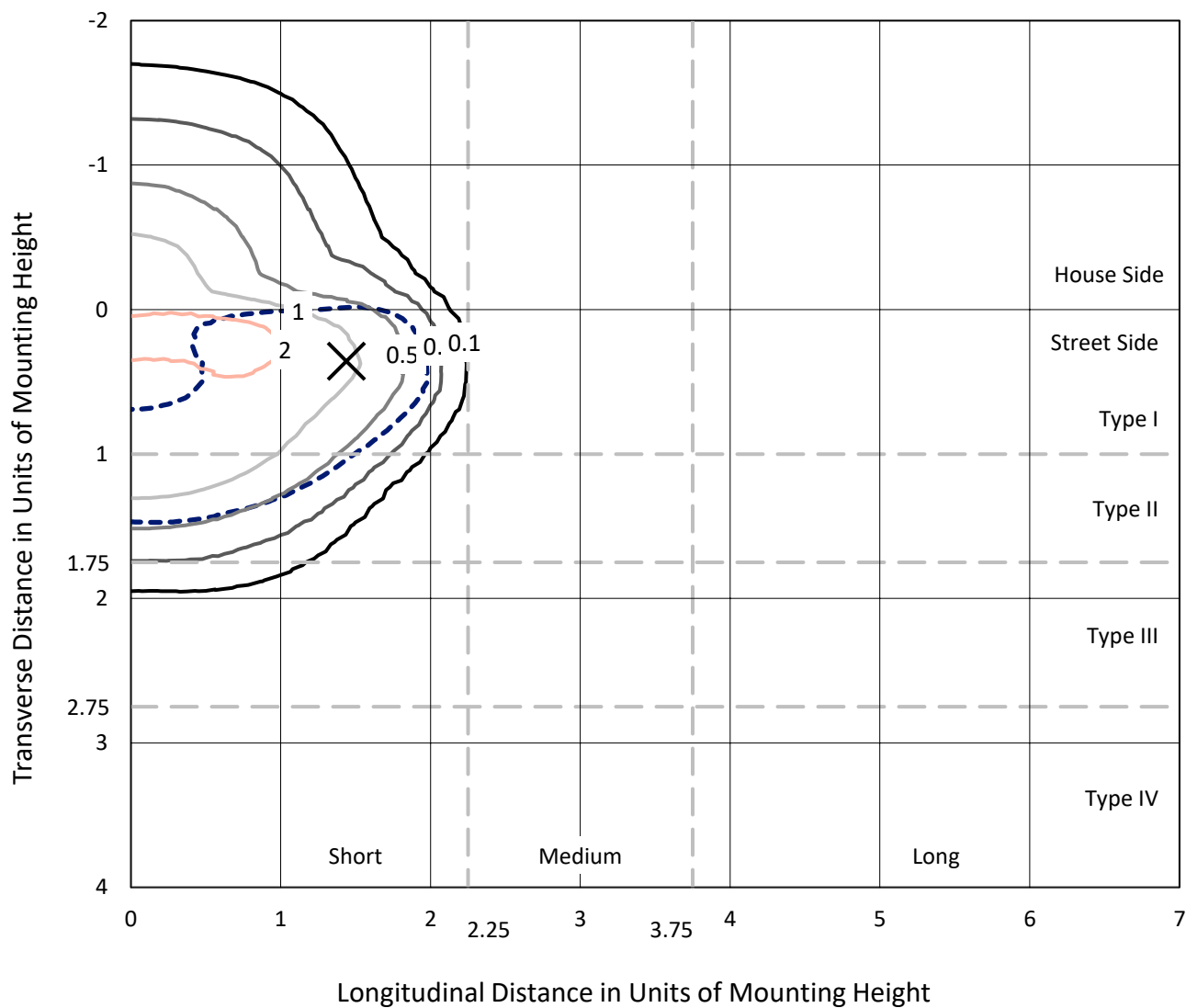
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

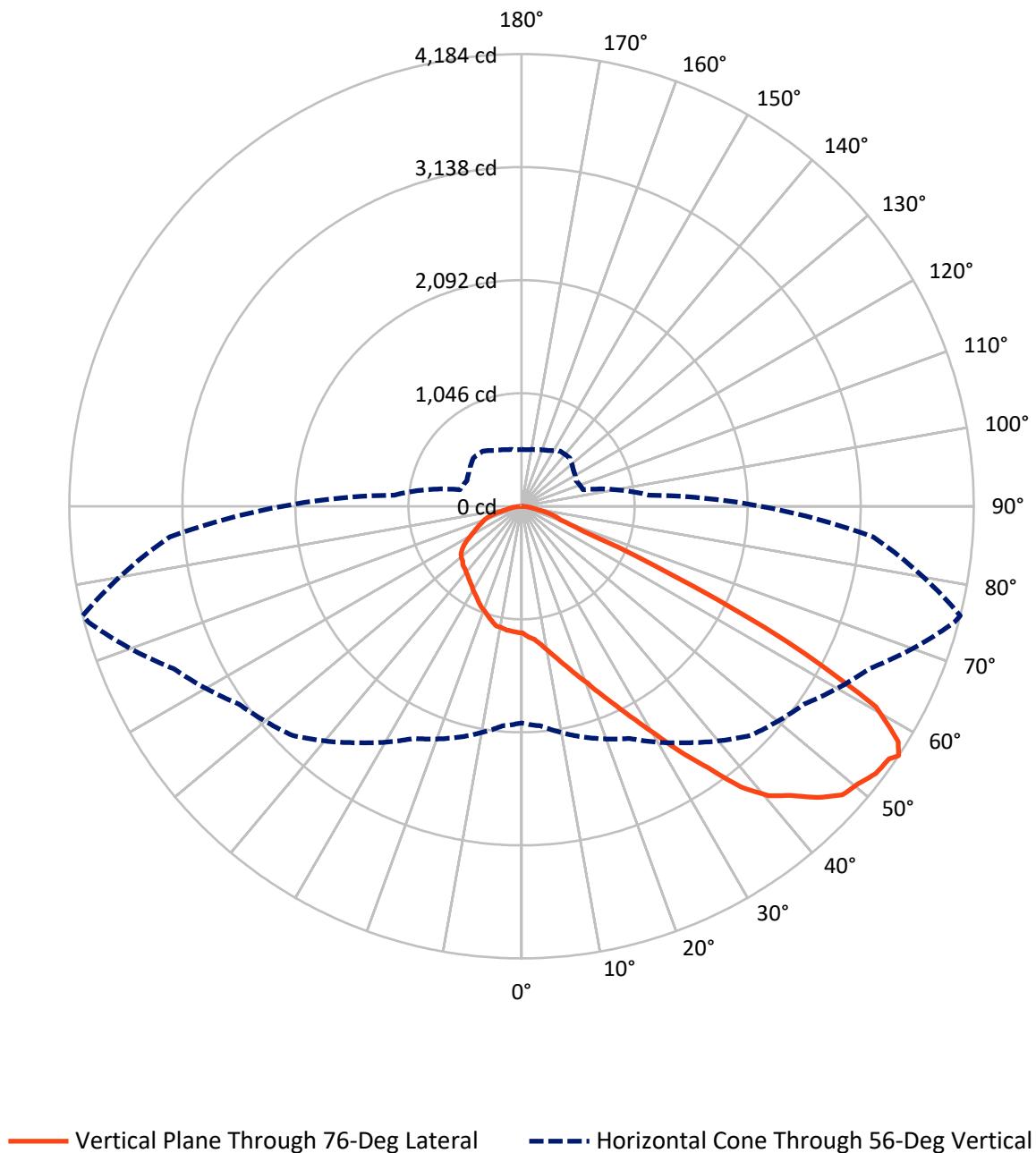


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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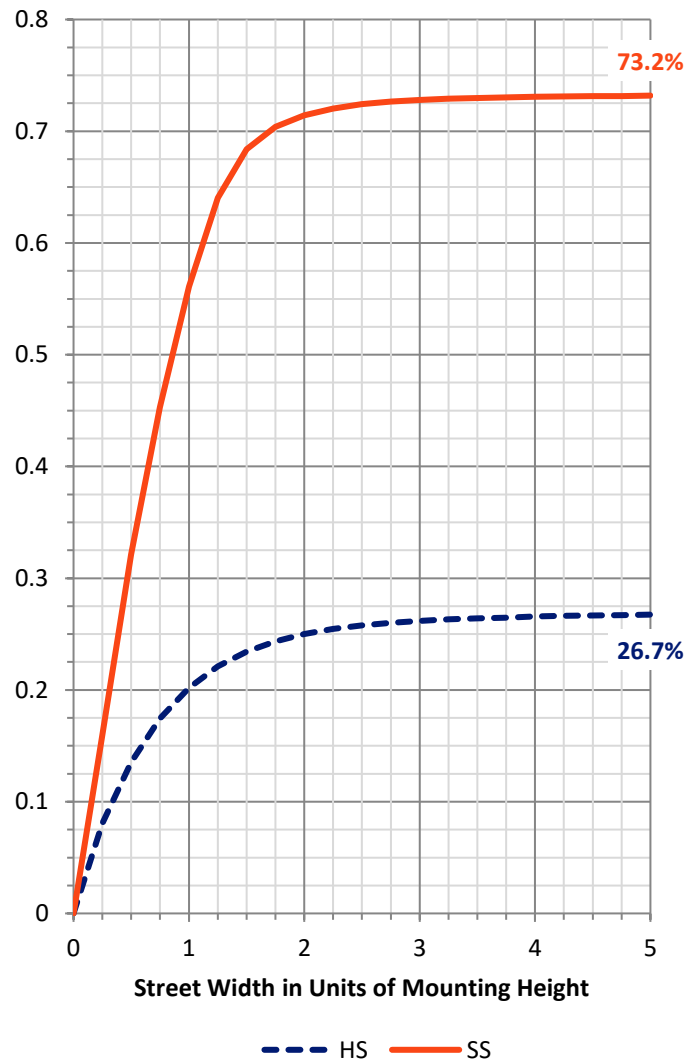
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.2	0.0	1648.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4481.8	0.0	4481.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	6130.0	0.0	6130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.9
10°-20°	365.4	6.0
20°-30°	639.0	10.4
30°-40°	1000.5	16.3
40°-50°	1455.5	23.7
50°-60°	1599.6	26.1
60°-70°	714.0	11.6
70°-80°	206.2	3.4
80°-90°	33.5	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°	6130.0	100.0
0°-180°	6130.0	100.0

Coefficient of Utilization



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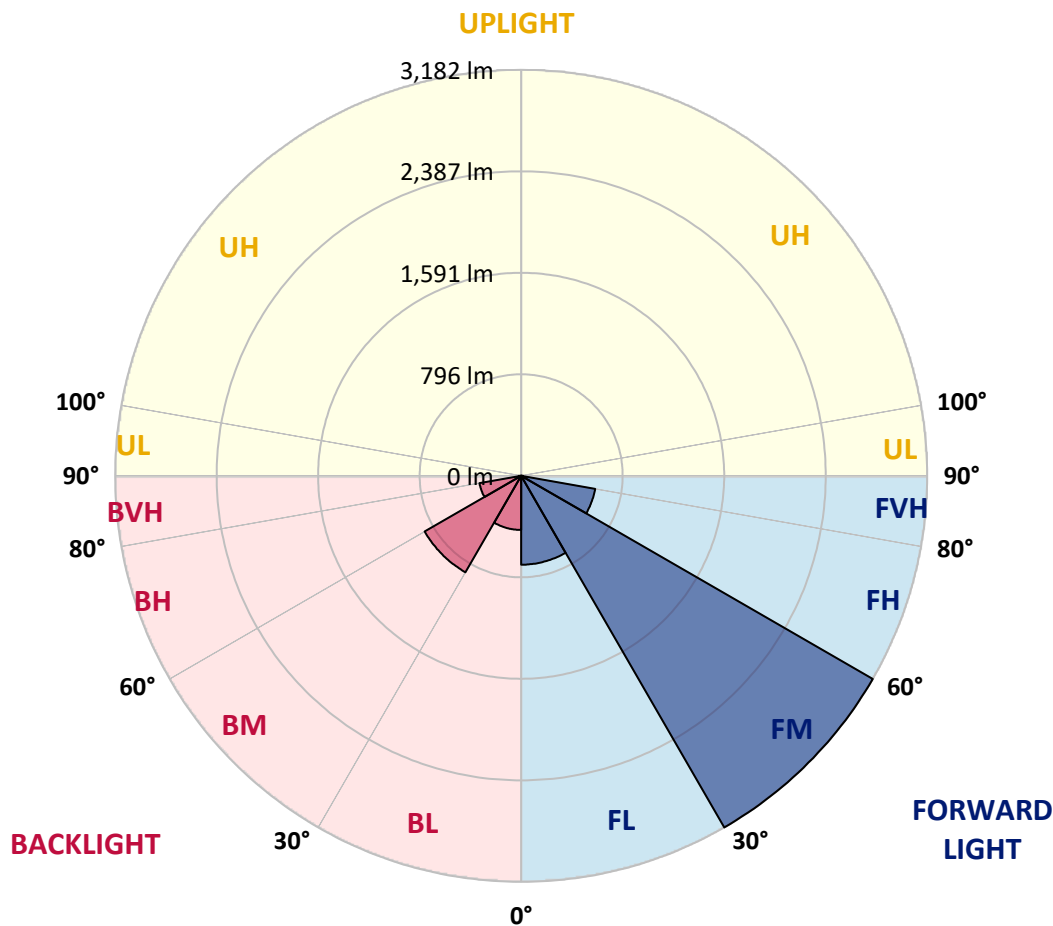
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.6	11.4			
FM	(30°-60°)	3182.2	51.9			
FH	(60°-80°)	588.6	9.6			G0/660
FVH	(80°-90°)	14.4	0.2			G1/100
BL	(0°-30°)	424.1	6.9	B1/500		
BM	(30°-60°)	873.4	14.2	B1/1000		
BH	(60°-80°)	331.6	5.4	B1/500		G1/500
BVH	(80°-90°)	19.1	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°	76°	85°
0°	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9
2.5°	1292.1	1271.4	1269.8	1264.3	1267.5	1253.2	1238.1	1218.2	1197.5	1210.2	1180.0
5°	1382.7	1354.9	1366.0	1346.9	1349.3	1330.2	1299.2	1276.2	1250.8	1235.7	1214.2
7.5°	1414.5	1416.9	1424.8	1421.6	1405.7	1405.7	1385.1	1344.5	1300.0	1291.3	1255.5
10°	1457.4	1458.2	1449.4	1451.8	1474.1	1463.7	1445.5	1428.0	1370.8	1360.4	1296.9
12.5°	1472.5	1458.2	1472.5	1485.2	1511.4	1525.7	1521.7	1509.0	1447.8	1440.7	1347.7
15°	1474.9	1466.1	1478.0	1506.6	1529.7	1590.1	1620.3	1611.5	1530.5	1531.3	1404.9
17.5°	1463.7	1475.7	1480.4	1505.1	1558.3	1614.7	1702.1	1714.1	1647.3	1637.0	1477.2
20°	1478.8	1470.1	1476.5	1498.7	1569.4	1657.6	1772.1	1850.7	1757.0	1749.8	1551.9
22.5°	1536.8	1524.9	1523.3	1537.6	1588.5	1679.9	1846.0	1987.4	1890.5	1894.4	1644.9
25°	1582.1	1588.5	1582.9	1582.1	1613.9	1713.3	1943.7	2150.3	2071.6	2048.6	1754.6
27.5°	1660.0	1675.1	1664.0	1679.1	1671.9	1763.3	2013.6	2330.7	2267.1	2236.1	1853.9
30°	1768.1	1776.0	1765.7	1765.7	1744.2	1833.2	2077.2	2519.0	2492.8	2450.7	1970.7
32.5°	1910.3	1922.2	1901.6	1889.7	1886.5	1937.3	2191.6	2705.0	2749.5	2713.7	2125.7
35°	2098.7	2091.5	2066.9	2055.7	2012.8	2097.1	2361.7	2918.7	3035.5	2972.0	2313.2
37.5°	2264.7	2253.6	2252.0	2190.0	2200.4	2269.5	2506.3	3080.8	3312.9	3294.6	2511.1
40°	2419.7	2430.0	2446.7	2411.7	2395.9	2472.1	2674.8	3204.8	3528.2	3521.1	2663.7
42.5°	2585.8	2576.2	2605.6	2576.2	2552.4	2660.5	2857.5	3290.6	3717.4	3658.5	2823.4
45°	2826.6	2796.4	2806.7	2809.1	2791.6	2831.3	2933.0	3352.6	3850.1	3843.7	2940.2
47.5°	3027.6	3028.4	3010.9	2997.4	2944.2	2983.9	3017.3	3391.5	4002.6	3992.3	2985.5
50°	3102.3	3092.0	3142.8	3172.2	3175.4	3094.3	3083.2	3413.0	4082.9	4037.6	3030.8
52.5°	2833.7	2843.2	2923.5	3098.3	3199.2	3208.0	3160.3	3457.5	4115.5	4105.9	3067.3
55°	2280.6	2326.7	2458.6	2660.5	2899.7	3162.7	3243.7	3503.6	4133.0	4125.0	3229.4
56°	2004.9	2040.6	2212.3	2370.4	2670.8	2998.2	3191.3	3552.9	4146.5	4183.8	3267.6
57.5°	1613.9	1655.2	1778.4	1958.0	2312.4	2685.1	3046.7	3492.5	4094.0	4108.3	3295.4
60°	1009.2	1013.2	1161.0	1279.4	1528.9	1892.8	2325.1	3038.7	3788.9	3768.2	2960.1
62.5°	661.9	662.7	797.0	894.0	1007.6	1091.0	1368.4	2015.2	2795.6	2759.0	2107.4
65°	464.9	475.2	579.3	708.8	754.9	711.2	702.5	1062.4	1561.5	1509.0	1132.4
67.5°	340.1	340.9	433.1	572.1	638.9	541.2	439.4	518.9	618.2	616.6	524.5
70°	224.9	234.4	305.1	427.5	503.8	434.7	359.2	371.1	393.3	393.3	390.2
72.5°	131.1	139.9	186.7	271.0	282.9	271.8	284.5	317.9	332.2	331.4	327.4
75°	74.7	78.7	89.0	112.8	140.7	166.1	209.0	240.8	255.1	263.8	253.5
77.5°	43.7	46.1	52.4	64.4	73.1	89.8	113.6	135.9	155.0	152.6	154.2
80°	23.0	23.0	29.4	38.1	50.9	63.6	75.5	88.2	98.5	100.9	103.3
82.5°	13.5	14.3	19.1	27.8	36.6	45.3	58.0	66.8	76.3	77.1	78.7
85°	7.2	7.9	11.9	18.3	24.6	27.8	28.6	27.0	29.4	27.8	31.8
87.5°	2.4	2.4	4.0	3.2	3.2	4.0	4.8	4.8	6.4	6.4	6.4
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°	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9	1172.9
2.5°	1179.3	1179.3	1165.7	1140.3	1136.3	1126.0	1116.5	1115.7	1108.5	1102.2	1099.0
5°	1201.5	1176.9	1157.0	1134.0	1106.9	1094.2	1079.9	1064.0	1057.7	1064.0	1063.2
7.5°	1226.9	1206.3	1146.7	1103.8	1072.8	1060.1	1044.2	1027.5	1029.1	1029.1	1017.9
10°	1251.6	1223.8	1128.4	1073.6	1028.3	1018.7	1010.0	1016.4	1024.3	1025.9	1018.7
12.5°	1292.9	1230.1	1119.7	1043.4	1014.8	994.1	999.7	1017.1	1033.8	1029.1	1034.6
15°	1323.9	1235.7	1079.9	1012.4	976.6	986.2	1006.0	1017.9	1045.8	1042.6	1048.1
17.5°	1354.1	1238.9	1041.0	971.1	956.0	982.2	997.3	1031.4	1040.2	1059.3	1066.4
20°	1416.1	1245.2	1001.3	945.6	940.9	971.1	997.3	1013.2	1032.2	1048.9	1048.9
22.5°	1447.8	1242.0	975.0	912.3	927.4	946.4	970.3	997.3	997.3	1013.2	1014.0
25°	1487.6	1229.3	933.7	896.4	907.5	925.8	952.8	943.2	953.6	953.6	966.3
27.5°	1532.9	1202.3	897.9	867.8	890.0	909.9	913.8	907.5	895.6	894.0	889.2
30°	1569.4	1168.9	871.7	858.2	876.5	887.6	874.9	861.4	840.7	839.1	828.0
32.5°	1619.5	1127.6	839.1	834.4	855.0	855.8	851.9	831.2	801.0	788.3	775.6
35°	1703.7	1103.8	814.5	821.7	828.0	825.6	818.5	796.2	766.0	760.5	755.7
37.5°	1765.7	1086.3	789.1	797.8	803.4	806.6	785.1	760.5	761.3	750.1	747.0
40°	1835.6	1075.2	768.4	772.4	773.2	783.5	757.3	745.4	750.9	743.8	748.6
42.5°	1925.4	1078.3	747.0	743.8	758.9	754.9	742.2	726.3	729.5	708.0	711.2
45°	1973.1	1099.8	734.3	719.9	736.6	735.8	719.2	704.1	685.0	643.7	645.3
47.5°	2004.9	1105.4	704.1	694.5	712.0	722.3	703.3	668.3	641.3	611.9	604.7
50°	2037.5	1115.7	689.8	669.9	677.0	701.7	677.8	644.5	618.2	592.0	596.0
52.5°	2066.1	1135.5	661.9	632.5	645.3	672.3	659.6	619.0	590.4	569.0	562.6
55°	2193.2	1180.0	615.1	576.9	607.1	641.3	634.1	584.9	553.9	542.7	541.2
56°	2213.1	1181.6	590.4	557.8	585.7	630.9	622.2	569.8	541.9	524.5	525.3
57.5°	2216.3	1162.6	555.5	540.4	564.2	615.9	604.7	557.8	519.7	503.8	499.0
60°	1950.1	907.5	511.8	502.2	530.0	569.8	565.8	525.3	482.3	464.1	472.8
62.5°	1329.4	665.1	477.6	476.0	490.3	529.2	518.9	482.3	446.6	434.7	429.1
65°	774.0	504.6	444.2	437.8	449.8	470.4	477.6	439.4	402.1	394.1	391.8
67.5°	456.9	417.2	401.3	391.0	387.0	399.7	405.3	383.0	345.7	334.5	344.1
70°	382.2	371.1	371.9	354.4	344.9	336.1	331.4	311.5	280.5	266.2	262.2
72.5°	329.8	325.0	321.8	305.9	297.2	277.3	256.7	236.8	213.8	201.8	202.6
75°	251.9	250.3	251.9	244.0	228.9	213.0	193.9	168.5	151.0	135.9	139.1
77.5°	150.2	155.0	157.3	154.2	147.8	133.5	121.6	104.9	88.2	76.3	74.7
80°	103.3	107.3	111.3	107.3	100.9	90.6	77.9	65.2	53.2	46.9	45.3
82.5°	78.7	82.6	85.0	81.1	73.1	62.0	53.2	44.5	35.0	28.6	27.0
85°	28.6	32.6	31.8	38.1	41.3	39.7	34.2	26.2	19.9	14.3	13.5
87.5°	7.9	7.2	7.9	7.9	7.9	7.2	6.4	6.4	6.4	4.0	3.2
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)