

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: P526466

Luminaire Tested: **GALN-SA1B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871 lumens
Efficiency: N/A
Efficacy: 88.0 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): 44
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



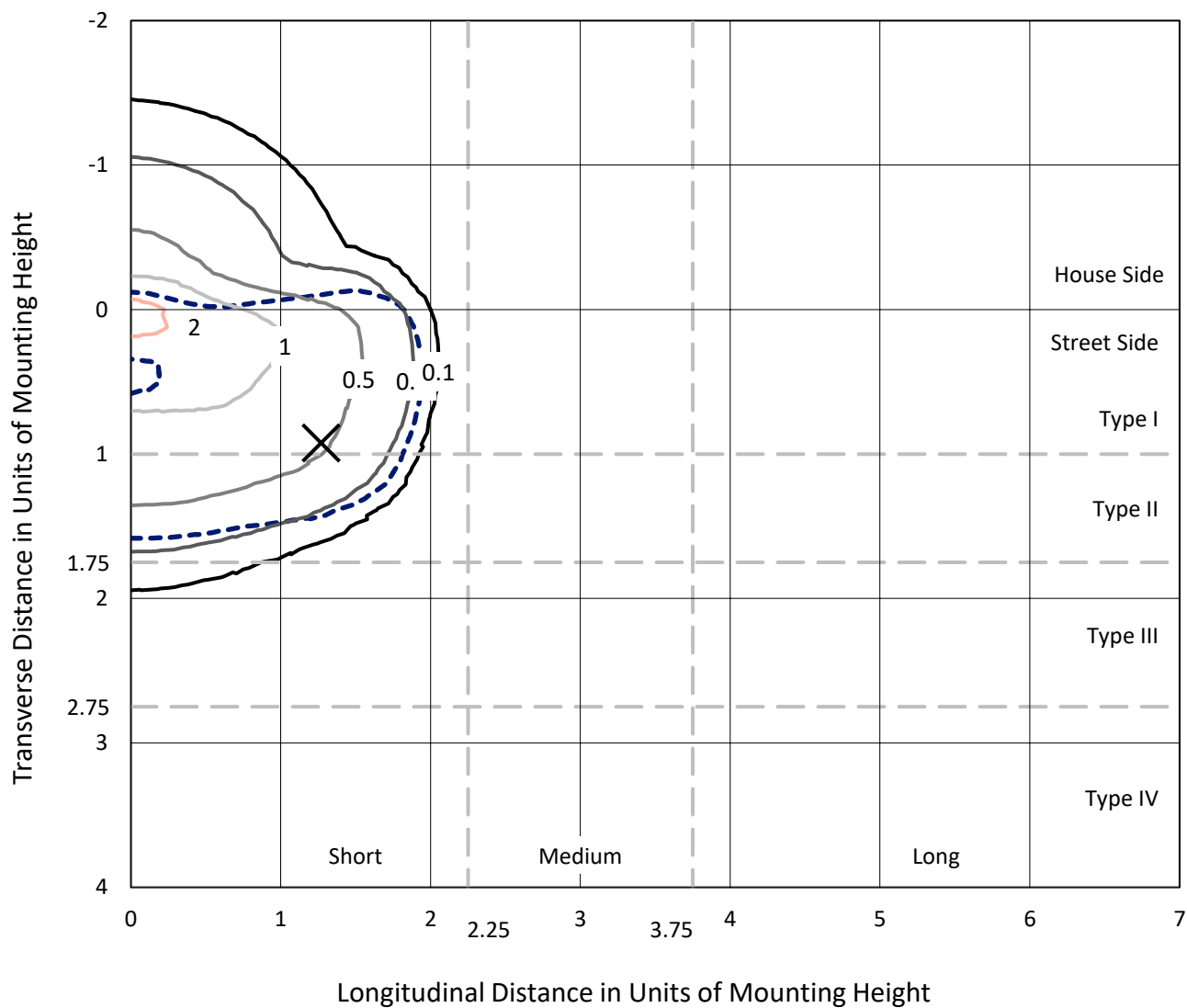
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

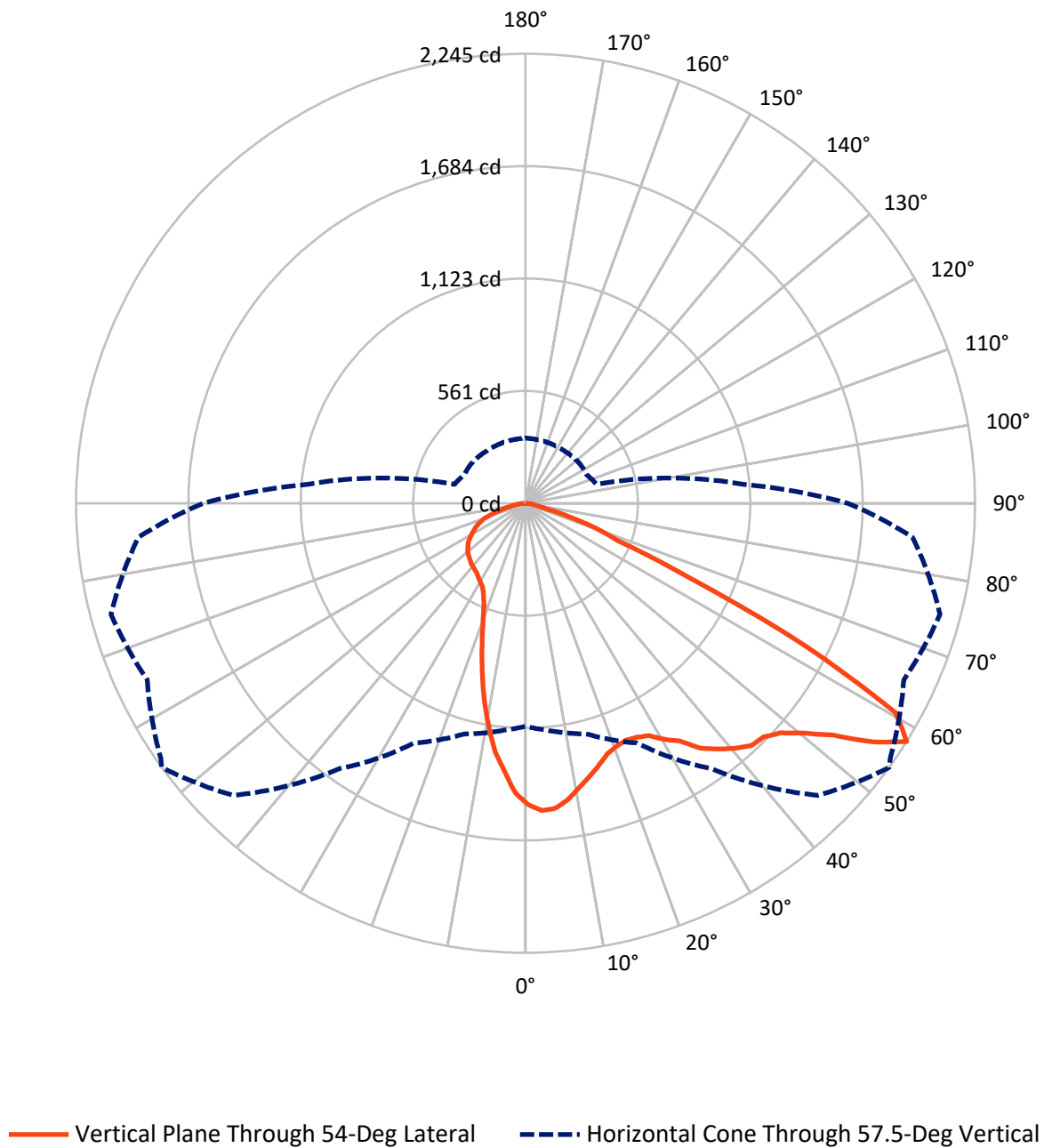


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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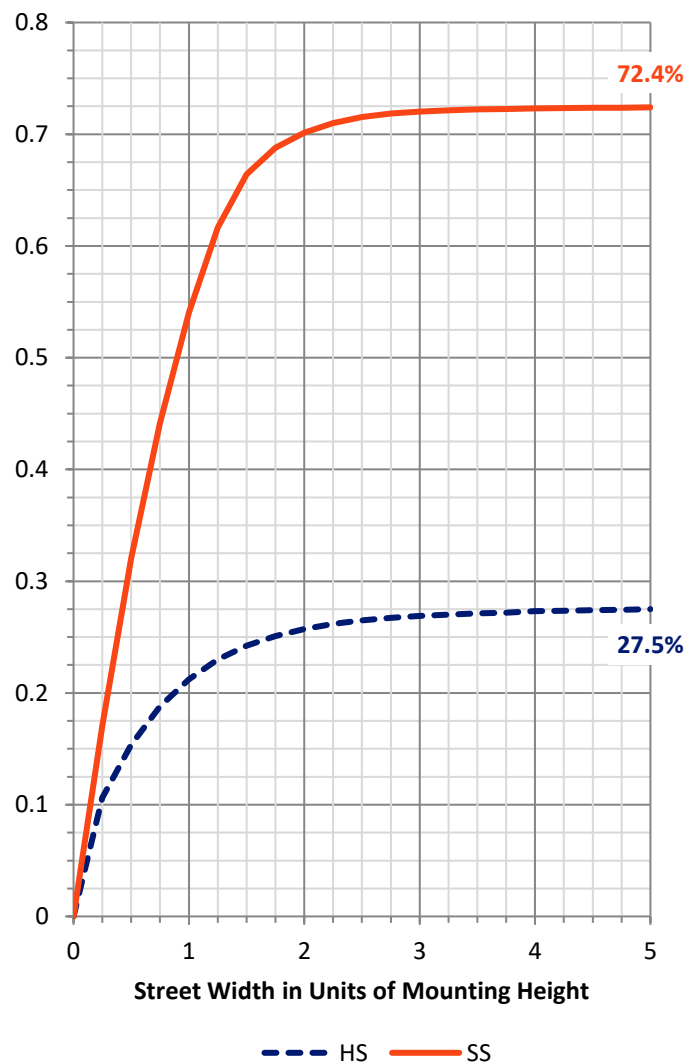
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1070.9	0.0	1070.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2800.1	0.0	2800.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	3871.0	0.0	3871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.4
10°-20°	300.4	7.8
20°-30°	422.1	10.9
30°-40°	590.1	15.2
40°-50°	798.9	20.6
50°-60°	973.1	25.1
60°-70°	506.8	13.1
70°-80°	129.9	3.4
80°-90°	19.8	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°	3871.0	100.0
0°-180°	3871.0	100.0

Coefficient of Utilization



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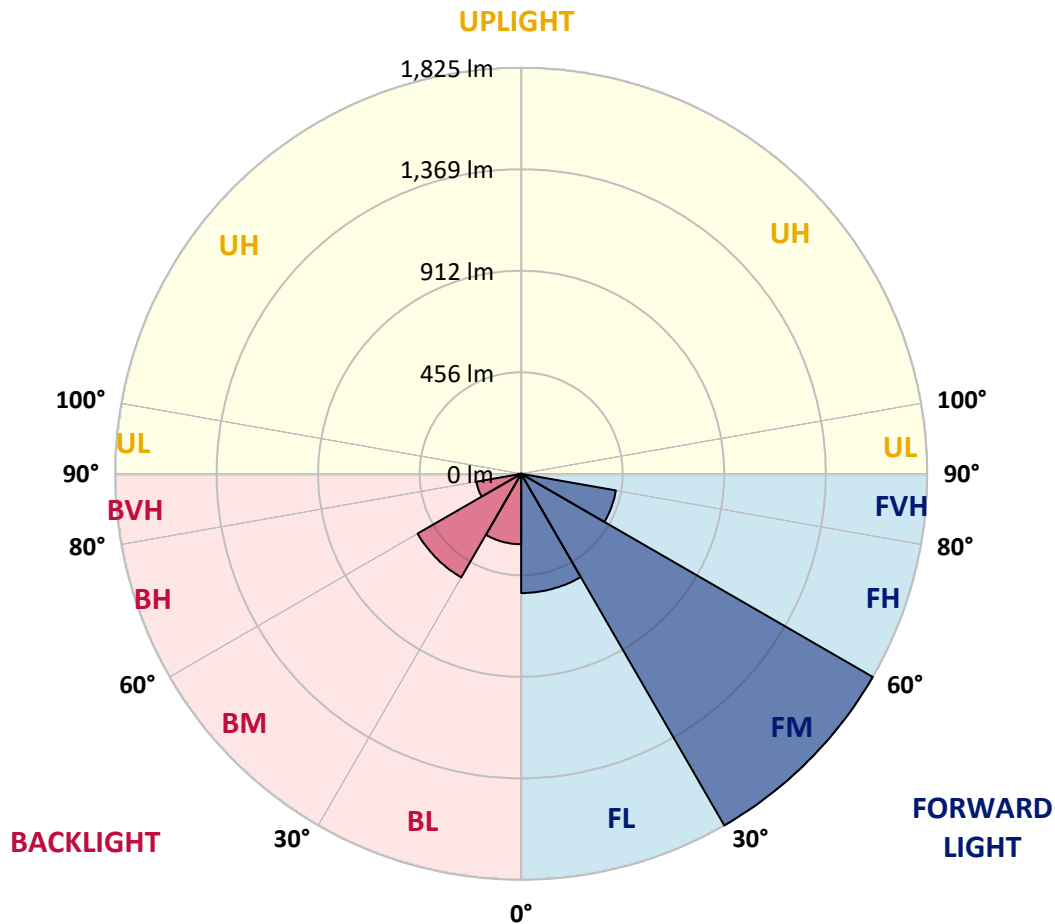
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.8	13.8			
FM	(30°-60°)	1824.7	47.1			
FH	(60°-80°)	432.1	11.2			G0/660
FVH	(80°-90°)	7.5	0.2			G0/10
BL	(0°-30°)	316.5	8.2	B1/500		
BM	(30°-60°)	537.5	13.9	B1/1000		
BH	(60°-80°)	204.6	5.3	B1/500		G1/500
BVH	(80°-90°)	12.3	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°	54°	55°	65°	75°	85°
0°	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6
2.5°	1547.4	1541.4	1542.4	1550.4	1540.4	1536.5	1536.5	1517.1	1518.5	1505.1	1501.6
5°	1511.6	1497.6	1507.1	1519.0	1521.0	1525.0	1531.5	1526.5	1512.6	1498.1	1474.8
7.5°	1418.0	1430.5	1434.0	1442.4	1460.3	1476.8	1497.2	1483.2	1482.7	1468.3	1454.4
10°	1335.9	1328.5	1347.4	1359.8	1389.7	1417.0	1448.4	1446.9	1454.4	1437.9	1414.1
12.5°	1254.3	1248.4	1257.3	1285.7	1327.5	1367.3	1404.6	1390.7	1430.5	1427.5	1376.2
15°	1167.8	1172.2	1185.2	1211.6	1266.3	1314.0	1361.3	1361.8	1397.1	1409.1	1340.4
17.5°	1107.1	1102.1	1118.5	1157.8	1206.6	1263.8	1317.5	1328.5	1382.7	1389.7	1329.5
20°	1061.8	1068.8	1090.1	1110.1	1166.3	1235.4	1296.1	1300.1	1379.7	1398.6	1312.1
22.5°	1050.8	1046.9	1053.8	1086.2	1132.4	1207.6	1284.7	1299.6	1379.2	1395.6	1279.2
25°	1039.4	1052.3	1051.8	1084.2	1118.0	1185.2	1294.1	1310.6	1405.6	1411.1	1283.7
27.5°	1065.3	1063.8	1077.7	1080.2	1122.0	1191.2	1314.0	1326.5	1449.4	1444.9	1287.2
30°	1091.1	1083.7	1092.1	1121.5	1140.9	1225.5	1368.8	1367.8	1506.1	1503.1	1298.1
32.5°	1123.0	1119.5	1125.0	1150.9	1183.7	1271.3	1415.1	1444.4	1563.8	1582.7	1335.9
35°	1129.0	1143.4	1156.3	1191.2	1237.9	1345.4	1502.1	1526.5	1630.5	1689.7	1408.1
37.5°	1166.8	1172.2	1202.6	1264.3	1307.1	1444.4	1557.4	1572.8	1691.2	1758.4	1484.2
40°	1207.1	1213.5	1259.3	1324.0	1382.7	1509.1	1609.1	1614.1	1710.6	1811.1	1534.0
42.5°	1261.8	1267.8	1313.1	1394.2	1472.8	1564.3	1654.9	1660.3	1709.1	1871.8	1613.1
45°	1318.5	1333.0	1386.2	1478.2	1548.9	1629.0	1665.3	1687.7	1723.0	1926.0	1677.3
47.5°	1398.1	1411.6	1455.4	1545.4	1628.0	1685.7	1713.6	1735.5	1756.4	1973.3	1718.6
50°	1482.7	1485.2	1538.4	1620.0	1680.7	1749.9	1803.6	1811.1	1800.2	2028.0	1788.7
52.5°	1544.9	1552.9	1594.2	1673.8	1764.3	1849.4	1923.1	1931.0	1909.6	2048.4	1812.6
55°	1441.9	1437.4	1504.6	1610.6	1820.6	1997.7	2104.7	2110.6	1989.2	2111.6	1890.7
57.5°	1114.5	1135.9	1193.1	1321.0	1617.6	2063.4	2245.0	2223.6	2084.8	2143.5	1940.5
60°	810.0	805.0	843.4	928.9	1219.0	1778.3	2122.6	2144.5	2006.6	1932.0	1600.1
62.5°	659.8	652.8	655.8	658.8	786.6	1180.2	1571.3	1570.8	1545.4	1388.7	1079.2
65°	527.4	543.8	545.3	567.7	584.1	705.0	910.5	959.3	835.4	685.1	497.1
67.5°	397.5	391.6	411.5	491.1	521.9	509.0	497.1	502.5	357.2	257.7	242.8
70°	234.3	231.9	255.7	342.3	429.9	404.5	374.7	375.2	245.3	180.1	200.5
72.5°	128.4	127.9	132.8	173.6	244.3	253.8	224.9	231.9	146.3	145.8	156.7
75°	71.6	70.2	68.7	76.6	88.1	93.0	95.0	96.0	100.5	112.4	116.9
77.5°	26.4	25.4	25.4	29.4	37.3	46.8	59.2	60.2	71.2	81.6	86.1
80°	9.0	10.0	13.4	18.4	24.9	33.3	40.3	41.3	50.3	57.2	58.7
82.5°	5.5	6.0	9.0	12.9	17.9	23.4	29.9	30.4	37.3	41.8	43.8
85°	2.5	3.0	5.0	8.0	11.4	15.4	15.9	15.9	15.4	15.9	14.9
87.5°	0.0	0.0	1.0	1.0	1.0	1.5	2.0	1.5	2.5	3.0	3.0
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°	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6	1504.6
2.5°	1491.2	1485.7	1468.8	1453.9	1449.4	1429.5	1400.1	1403.6	1382.2	1392.2	1381.7
5°	1470.8	1452.4	1409.1	1390.7	1342.4	1320.5	1305.6	1268.3	1250.9	1247.4	1232.4
7.5°	1418.5	1407.1	1352.9	1303.1	1251.9	1208.1	1151.8	1113.5	1086.2	1078.7	1056.8
10°	1377.2	1351.9	1276.7	1201.1	1128.0	1051.8	978.7	921.5	893.6	861.3	850.3
12.5°	1336.4	1298.1	1196.6	1099.6	1005.1	909.0	820.5	750.8	690.1	675.7	670.7
15°	1311.1	1244.4	1125.0	1008.1	873.7	748.3	659.8	614.0	576.7	561.2	572.2
17.5°	1277.7	1200.1	1056.3	900.6	752.8	637.4	563.2	534.9	521.4	522.9	518.5
20°	1235.9	1158.3	966.3	803.1	644.8	552.8	510.5	500.0	502.0	505.5	504.0
22.5°	1206.1	1107.6	901.1	703.5	557.3	506.0	488.6	481.1	487.6	490.6	488.1
25°	1183.2	1064.3	822.0	615.5	506.5	479.6	471.7	471.2	481.1	485.1	482.6
27.5°	1162.3	1024.0	743.4	548.3	472.7	459.2	456.8	462.7	469.2	473.2	476.7
30°	1149.9	993.1	669.7	492.1	455.8	449.3	444.8	450.3	453.8	457.8	455.8
32.5°	1161.8	971.2	598.6	460.2	441.8	435.4	441.3	437.9	443.8	447.3	441.8
35°	1199.1	951.8	547.8	443.3	425.9	428.4	429.4	427.9	430.4	427.4	433.9
37.5°	1235.9	944.9	501.0	428.9	418.4	418.4	417.5	414.5	419.4	418.4	421.4
40°	1282.7	949.3	461.2	413.5	411.5	410.5	406.5	406.0	404.0	404.5	405.5
42.5°	1323.5	959.3	438.3	403.5	405.0	407.0	399.5	393.6	396.1	391.1	391.1
45°	1366.8	968.2	417.9	396.6	395.1	394.6	388.6	385.1	383.1	383.6	388.1
47.5°	1435.0	981.2	402.5	387.1	388.1	380.6	379.1	374.7	376.7	379.6	380.1
50°	1483.2	1008.5	390.6	376.2	379.6	374.7	365.7	363.7	363.7	368.7	367.7
52.5°	1517.1	1046.9	379.1	364.2	365.7	361.7	358.7	354.3	351.3	358.2	361.7
55°	1620.5	1110.5	376.2	354.3	353.8	349.8	344.3	339.8	338.3	339.3	346.3
57.5°	1610.6	1090.6	366.7	336.8	335.9	330.4	324.9	323.4	322.9	323.9	325.9
60°	1307.6	805.5	327.4	316.9	315.5	314.5	309.0	303.0	300.0	303.0	300.5
62.5°	865.3	539.4	288.6	293.1	294.1	291.6	282.6	276.6	277.6	281.1	275.6
65°	424.9	316.9	261.7	273.7	274.7	267.7	259.2	252.3	248.8	251.8	249.3
67.5°	242.8	242.3	239.8	252.3	251.8	244.8	231.4	225.4	219.4	220.4	218.9
70°	206.0	210.0	214.9	222.4	221.9	213.9	198.0	193.5	185.1	184.1	181.6
72.5°	162.2	169.2	180.1	185.6	181.1	171.2	160.7	153.2	145.8	141.3	142.8
75°	120.4	130.4	136.3	139.8	132.8	127.4	118.9	110.0	101.0	97.0	95.5
77.5°	87.6	90.6	96.0	98.5	94.0	88.6	83.6	74.6	66.2	60.7	59.2
80°	61.2	63.2	67.2	67.2	67.2	64.7	58.2	49.3	43.8	38.8	37.8
82.5°	42.8	44.8	48.8	46.8	46.3	43.3	39.3	32.3	26.4	22.9	21.9
85°	14.9	16.4	19.9	23.9	25.4	24.9	22.4	17.9	13.9	11.4	10.4
87.5°	3.5	3.5	4.0	3.5	3.5	4.0	3.5	3.5	3.5	2.5	2.0
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)