

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: P319166

Luminaire Tested: **GLEON-SA2C-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10564 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

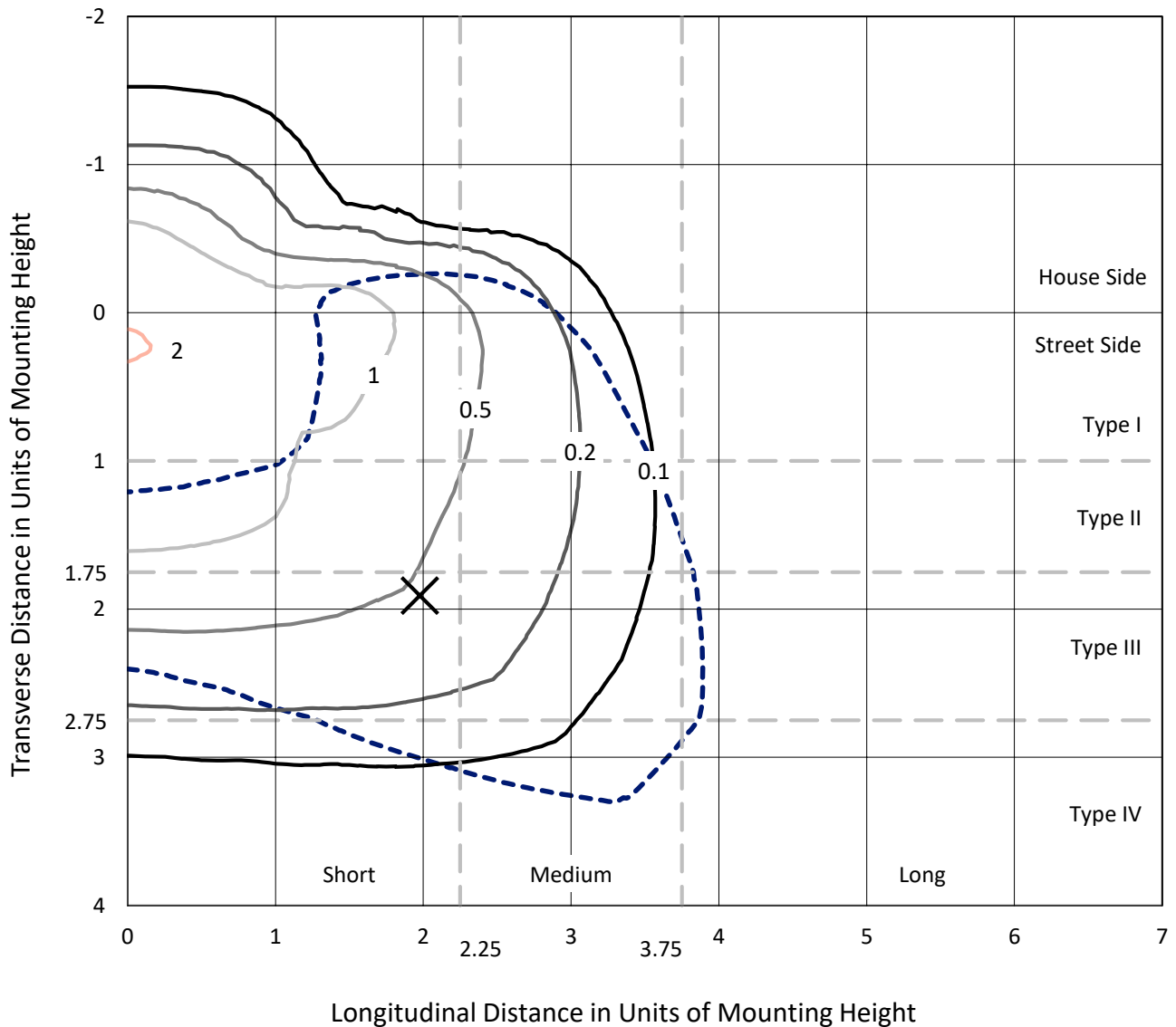
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

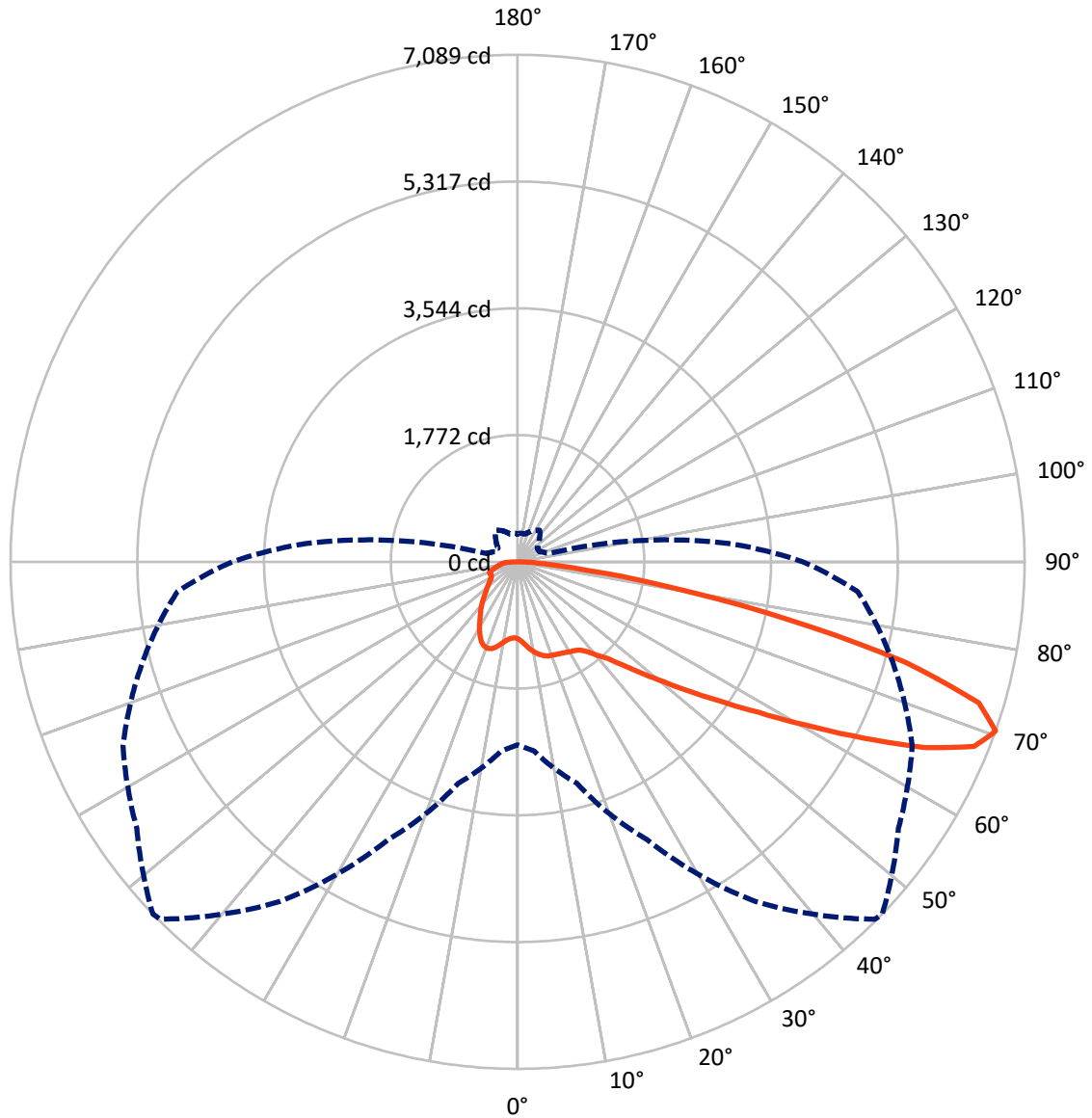
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2421.2	0.0	2421.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8142.8	0.0	8142.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10564.0	0.0	10564.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	1.0
10°-20°	365.5	3.5
20°-30°	609.5	5.8
30°-40°	864.9	8.2
40°-50°	1272.3	12.0
50°-60°	2154.6	20.4
60°-70°	3058.4	29.0
70°-80°	1858.0	17.6
80°-90°	271.2	2.6
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°	10564.0	100.0
0°-180°	10564.0	100.0

**Coefficient of Utilization**

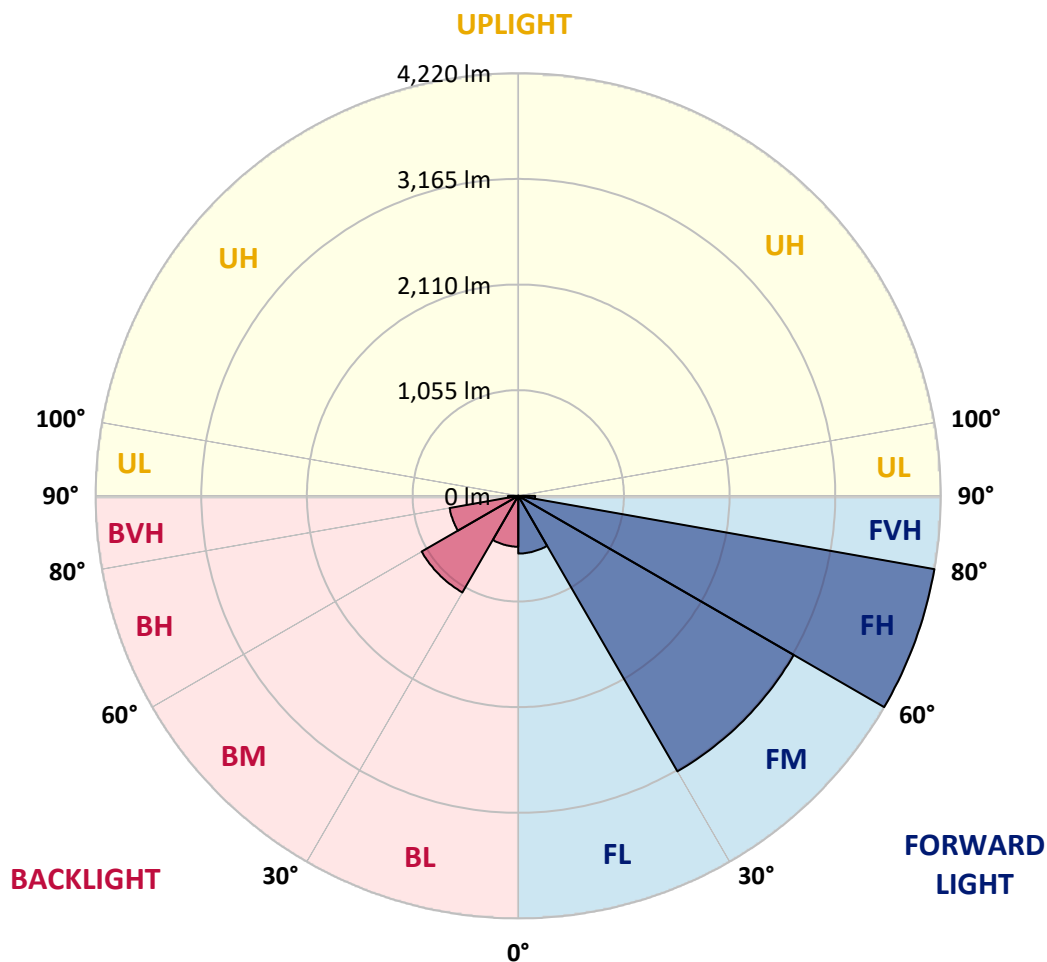


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.4	5.5			
FM (30°-60°)	3177.2	30.1			
FH (60°-80°)	4220.3	39.9			G2/5000
FVH (80°-90°)	168.9	1.6			G2/225
BL (0°-30°)	508.3	4.8	B2/1000		
BM (30°-60°)	1114.6	10.6	B2/2500		
BH (60°-80°)	696.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	102.2	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	1130.1	1130.9	1132.3	1128.7	1118.6	1115.7	1114.6	1104.1	1097.2	1087.1	1078.4
5°	1220.5	1221.2	1219.1	1208.9	1186.5	1169.9	1168.5	1144.6	1122.9	1099.8	1082.4
7.5°	1314.9	1316.0	1309.1	1289.9	1258.5	1229.6	1227.7	1195.2	1162.3	1127.2	1101.2
10°	1398.4	1394.0	1382.8	1356.1	1318.8	1283.4	1282.0	1248.0	1210.0	1167.7	1133.0
12.5°	1454.1	1450.4	1436.0	1403.4	1362.6	1330.1	1327.2	1295.7	1258.8	1212.6	1171.0
15°	1484.8	1487.3	1467.8	1430.9	1391.2	1363.7	1361.1	1338.7	1305.8	1259.2	1211.5
17.5°	1488.8	1490.9	1472.1	1435.6	1403.1	1384.3	1383.2	1368.4	1344.5	1299.7	1249.8
20°	1465.6	1467.1	1451.5	1421.5	1400.2	1394.4	1394.0	1387.5	1369.8	1330.1	1281.6
22.5°	1432.0	1433.1	1421.9	1400.2	1393.0	1402.0	1404.5	1402.0	1389.3	1352.1	1306.6
25°	1423.7	1423.0	1411.4	1389.3	1395.5	1414.7	1417.9	1419.0	1410.3	1377.8	1338.4
27.5°	1463.8	1461.3	1439.2	1403.8	1407.8	1430.9	1435.3	1445.7	1440.3	1411.8	1374.5
30°	1579.9	1575.5	1530.3	1458.8	1439.2	1451.2	1456.6	1473.2	1474.3	1450.4	1422.6
32.5°	1775.8	1770.4	1689.4	1561.4	1492.4	1471.8	1476.8	1501.8	1515.2	1496.7	1466.7
35°	2023.5	2017.3	1911.0	1736.1	1581.3	1511.2	1514.8	1534.7	1561.4	1535.4	1495.6
37.5°	2281.6	2266.8	2164.5	1941.4	1722.7	1595.4	1595.4	1597.9	1610.6	1556.4	1529.6
40°	2538.3	2523.5	2430.9	2182.9	1905.6	1728.1	1719.8	1663.7	1653.6	1607.0	1597.9
42.5°	2776.9	2772.5	2718.0	2455.9	2120.4	1858.6	1847.0	1752.0	1754.1	1725.2	1725.6
45°	3030.7	3030.7	2986.2	2731.3	2370.5	2068.3	2056.7	1916.8	1938.5	1925.1	1957.3
47.5°	3237.8	3244.3	3238.2	3018.4	2661.6	2334.7	2313.8	2145.3	2206.0	2251.9	2345.6
50°	3449.3	3459.4	3460.5	3333.3	3013.3	2651.4	2627.6	2448.6	2584.2	2715.8	2899.8
52.5°	3756.3	3779.0	3688.3	3647.4	3444.3	3027.4	3003.9	2838.7	3065.0	3249.8	3566.8
55°	4040.8	4020.9	3956.2	3981.5	3905.6	3455.5	3437.8	3292.8	3600.8	3840.9	4252.6
57.5°	4194.8	4193.3	4258.4	4366.9	4403.0	3983.3	3968.5	3827.5	4204.9	4385.3	4896.5
60°	4375.6	4378.1	4539.3	4785.5	4934.5	4640.6	4634.0	4527.0	4791.7	4893.6	5401.6
62.5°	4400.9	4446.4	4724.1	5147.8	5431.9	5408.4	5422.9	5157.2	5316.6	5299.3	5778.6
65°	4109.8	4169.8	4672.4	5257.3	5926.5	6248.3	6261.6	5790.9	5730.6	5646.0	5913.5
67.5°	3513.3	3602.3	4148.2	5019.1	6089.6	6869.0	6887.8	6282.2	6074.0	5763.5	5588.8
70°	2556.7	2655.4	3204.9	4286.6	5798.9	7067.5	7088.8	6499.5	6087.0	5429.0	4771.1
72.5°	1544.4	1621.8	2074.8	3155.8	4894.3	6706.0	6743.9	6224.0	5557.4	4598.6	3523.1
75°	678.2	728.8	1003.2	1818.5	3503.9	5548.3	5595.7	5327.5	4515.5	3342.0	2082.4
77.5°	288.9	303.3	411.4	789.9	1980.8	3791.3	3856.4	3892.6	3063.6	1818.5	880.0
80°	180.0	185.8	232.8	357.5	927.0	2129.4	2199.5	2290.3	1521.3	668.5	307.3
82.5°	109.5	116.1	154.7	216.2	482.6	965.3	998.9	1062.9	590.4	288.9	159.1
85°	65.8	70.5	94.7	136.7	274.8	379.6	379.2	419.4	278.0	185.8	83.9
87.5°	31.5	35.1	50.6	70.9	138.5	142.4	133.4	151.1	168.8	121.8	42.3
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°	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3	1076.3
2.5°	1075.5	1074.1	1069.4	1065.8	1065.1	1062.9	1061.1	1062.2	1063.6	1064.0	1064.0
5°	1075.2	1071.2	1065.1	1062.5	1065.8	1070.1	1075.5	1082.8	1087.1	1090.4	1092.5
7.5°	1092.5	1084.9	1078.1	1076.6	1083.1	1094.7	1107.0	1122.2	1132.7	1139.9	1141.3
10°	1121.5	1112.1	1105.2	1106.6	1118.2	1134.8	1152.2	1171.7	1187.6	1197.4	1198.1
12.5°	1154.7	1145.7	1139.2	1145.3	1164.5	1184.7	1202.8	1219.8	1234.3	1244.0	1244.0
15°	1193.0	1186.5	1178.9	1193.0	1219.1	1237.1	1244.7	1253.1	1261.0	1268.2	1266.8
17.5°	1229.9	1223.8	1219.8	1236.4	1263.5	1271.9	1266.8	1260.6	1260.6	1264.6	1265.3
20°	1261.7	1256.3	1258.8	1275.1	1289.2	1280.5	1261.7	1242.2	1234.3	1236.4	1238.6
22.5°	1289.6	1287.0	1294.6	1302.2	1292.1	1261.7	1227.0	1200.6	1190.9	1190.1	1190.9
25°	1322.1	1321.7	1331.1	1317.4	1272.6	1216.5	1169.9	1144.2	1138.8	1143.1	1150.4
27.5°	1362.6	1366.6	1371.3	1321.0	1232.8	1148.2	1100.8	1083.1	1088.6	1099.0	1105.9
30°	1414.3	1425.1	1415.0	1312.0	1175.7	1070.1	1024.9	1019.9	1034.7	1049.5	1056.7
32.5°	1464.5	1481.5	1457.0	1288.5	1101.9	987.3	952.3	950.8	968.9	983.4	993.5
35°	1505.0	1538.7	1488.4	1241.8	1016.6	911.0	885.4	875.6	882.1	899.1	910.7
37.5°	1557.8	1613.9	1510.1	1170.6	924.1	848.1	818.1	795.7	789.9	796.8	802.6
40°	1654.3	1728.5	1520.2	1071.2	833.7	785.2	754.9	722.0	699.2	682.6	682.9
42.5°	1812.0	1877.8	1513.7	950.5	750.2	723.8	689.4	651.5	614.6	577.0	574.1
45°	2067.9	2099.7	1494.2	822.5	676.8	659.4	627.2	589.3	540.1	497.5	493.5
47.5°	2477.5	2407.0	1463.8	710.8	612.1	604.8	575.2	531.4	479.4	445.0	442.1
50°	3036.1	2850.6	1449.0	621.8	554.9	557.1	532.9	486.6	437.4	412.1	409.2
52.5°	3704.2	3367.3	1477.6	553.1	509.0	516.6	498.5	455.2	413.9	394.1	391.2
55°	4397.2	3902.3	1508.3	503.2	465.6	480.5	474.3	438.5	401.3	382.9	380.3
57.5°	4990.5	4301.8	1446.8	462.8	427.0	450.1	455.5	428.0	394.8	378.2	375.3
60°	5364.0	4462.7	1285.6	424.8	396.2	425.9	444.7	425.2	397.3	395.9	393.7
62.5°	5541.1	4448.6	1043.7	394.8	377.1	415.4	452.6	441.4	426.2	439.3	440.3
65°	5461.6	4236.0	777.3	374.9	363.3	419.4	476.5	472.2	434.6	447.6	449.4
67.5°	4938.1	3728.8	575.6	357.5	348.2	430.6	519.9	482.3	418.3	427.7	421.9
70°	3991.3	2956.2	444.0	338.0	332.6	429.1	539.4	476.1	400.6	402.7	387.2
72.5°	2752.3	2015.9	361.2	320.0	310.2	391.2	525.7	460.9	385.7	369.1	348.5
75°	1496.7	1082.0	306.9	301.2	270.8	343.5	500.4	450.1	372.4	350.3	338.8
77.5°	588.9	449.0	266.4	275.5	236.8	303.3	472.2	429.5	353.9	325.0	319.2
80°	240.4	229.2	220.9	238.2	203.5	265.4	438.2	405.3	331.9	301.5	289.9
82.5°	136.3	142.4	171.7	188.0	165.2	244.4	421.9	385.7	305.5	270.1	256.3
85°	69.8	83.5	119.7	134.8	121.5	207.9	388.6	337.7	245.1	206.8	207.9
87.5°	33.6	46.6	75.6	84.6	78.8	150.4	290.3	244.8	190.9	151.1	146.4
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)