

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: P269115

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T4FT-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8600.7 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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: 25 FT

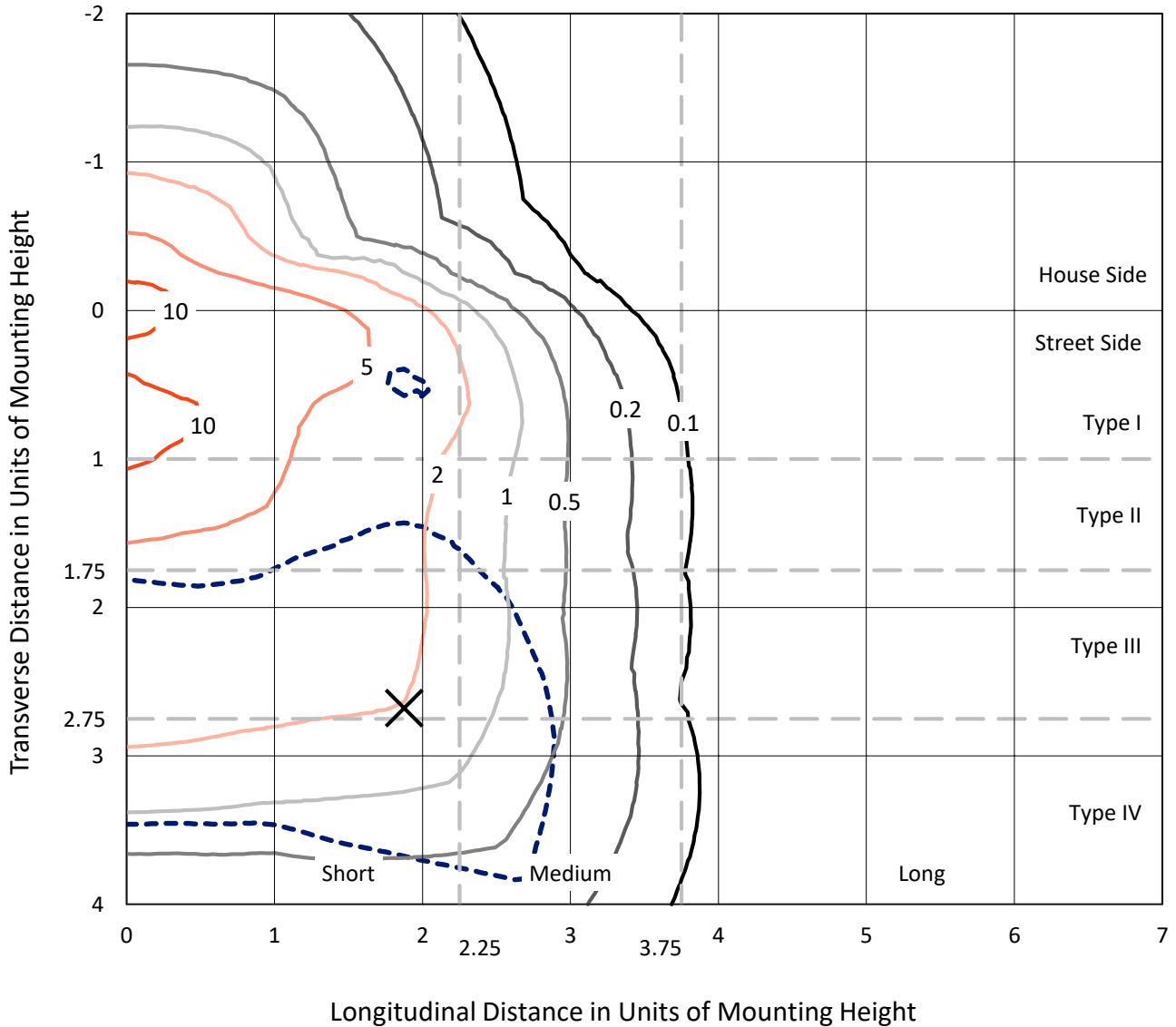


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

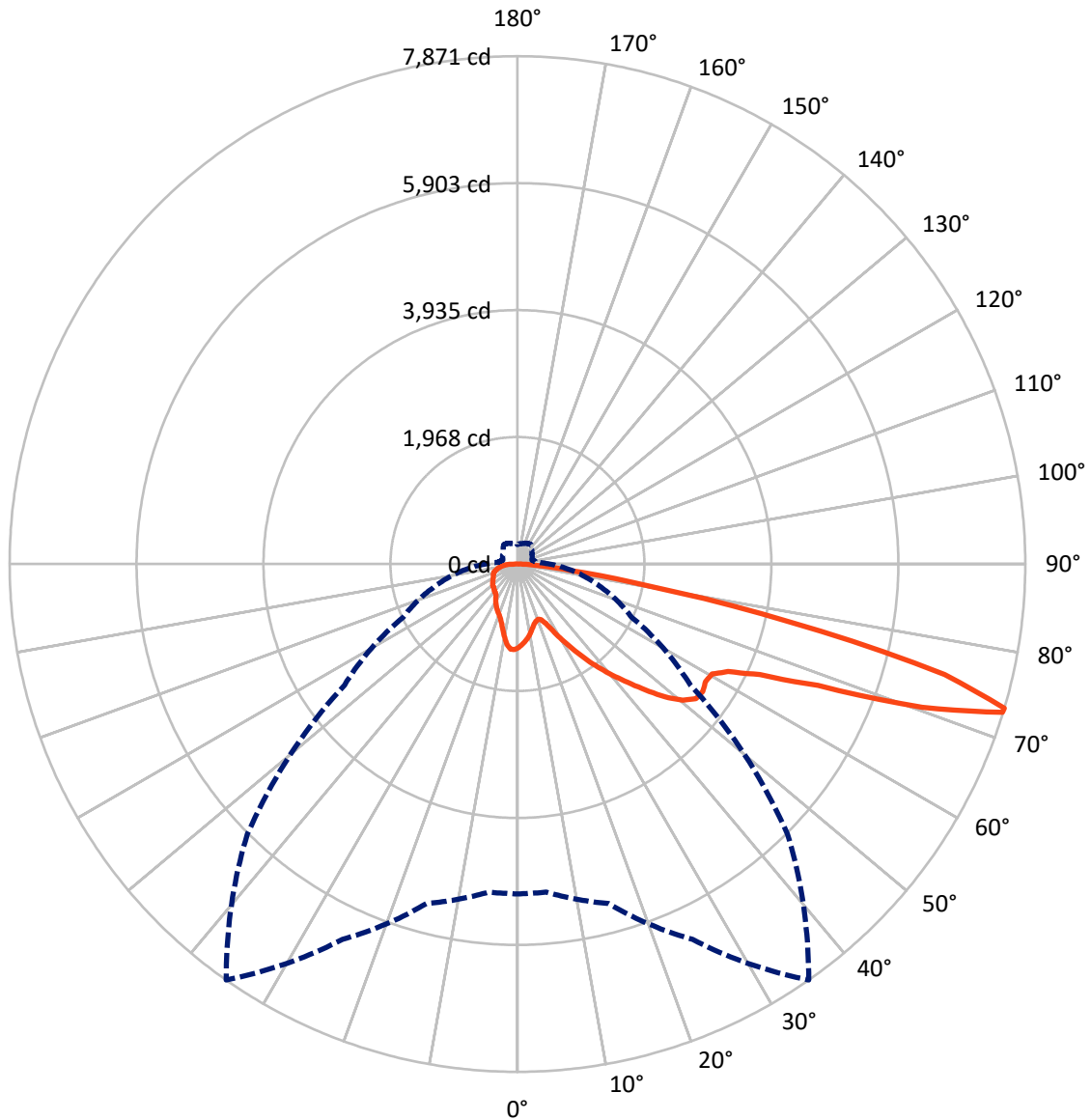


Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1640.4	0.0	1640.4
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	6960.3	0.0	6960.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	8600.7	0.0	8600.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	1.4
10°-20°	293.3	3.4
20°-30°	474.2	5.5
30°-40°	795.1	9.2
40°-50°	1225.6	14.3
50°-60°	1644.3	19.1
60°-70°	2190.6	25.5
70°-80°	1670.7	19.4
80°-90°	189.4	2.2
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°	8600.7	100.0
0°-180°	8600.7	100.0



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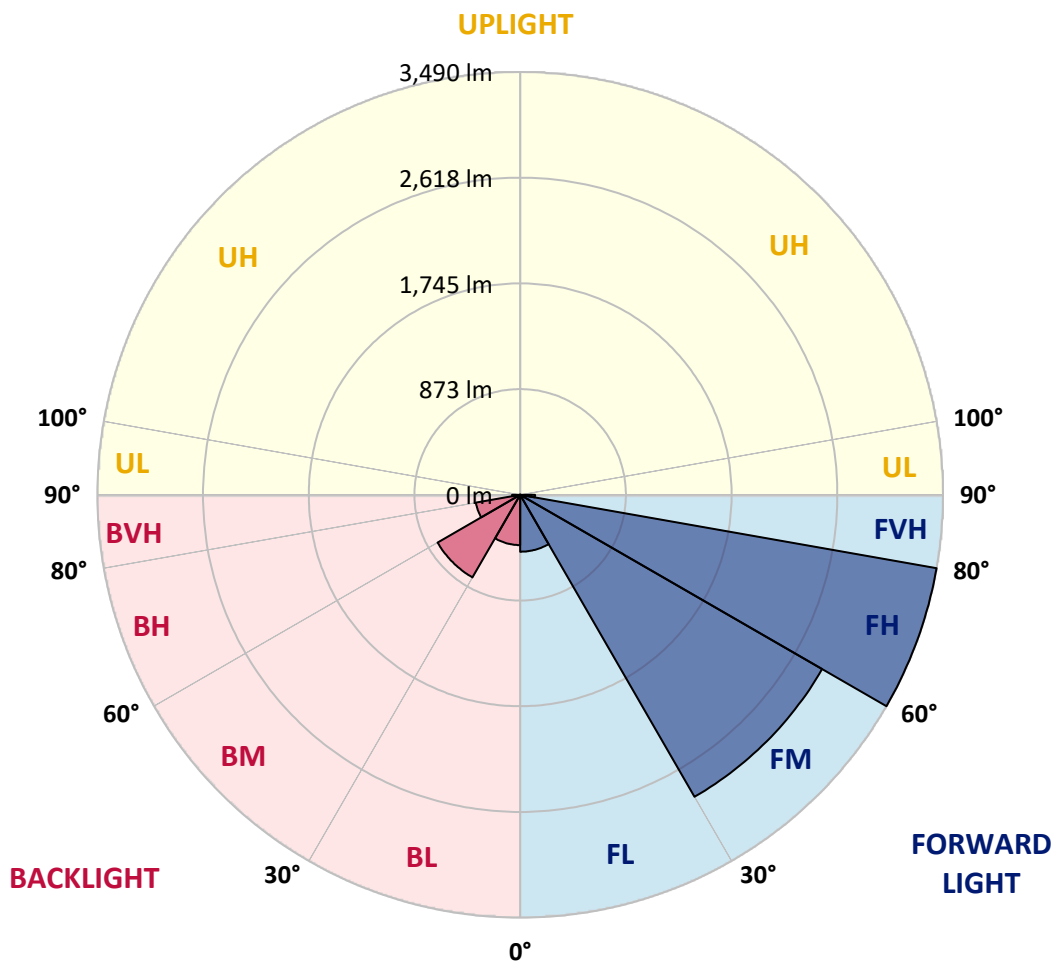
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.9	5.5			
FM	(30°-60°)	2877.9	33.5			
FH	(60°-80°)	3490.2	40.6			G2/5000
FVH	(80°-90°)	122.4	1.4			G2/225
BL	(0°-30°)	415.1	4.8	B1/500		
BM	(30°-60°)	787.2	9.2	B1/1000		
BH	(60°-80°)	371.1	4.3	B1/500		G1/500
BVH	(80°-90°)	67.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1
2.5°	1246.8	1249.5	1246.5	1250.3	1256.4	1262.9	1267.6	1274.2	1281.6	1291.9	1294.4
5°	1188.3	1192.1	1192.1	1198.6	1210.6	1221.2	1231.1	1241.9	1257.6	1275.5	1282.4
7.5°	1123.8	1125.8	1129.6	1139.5	1156.8	1172.2	1186.2	1203.5	1225.0	1248.6	1261.0
10°	1046.2	1049.1	1054.9	1069.0	1092.3	1113.4	1133.8	1157.6	1185.0	1214.2	1230.0
12.5°	991.2	990.4	992.8	1003.1	1023.9	1049.5	1078.9	1109.3	1142.9	1177.0	1196.2
15°	972.7	968.2	958.6	956.2	967.3	992.8	1026.8	1064.3	1104.3	1145.7	1169.2
17.5°	984.3	976.4	950.3	931.4	929.7	949.1	985.0	1027.2	1073.5	1123.8	1153.2
20°	1056.9	1038.4	974.3	930.1	914.8	924.4	955.7	1000.4	1054.9	1121.8	1159.4
22.5°	1230.8	1203.5	1067.6	985.5	933.9	922.3	945.8	993.3	1056.9	1147.3	1195.3
25°	1484.0	1445.2	1228.0	1123.4	1016.8	955.3	960.6	1009.4	1086.2	1206.9	1264.6
27.5°	1683.9	1658.7	1437.3	1318.0	1168.1	1044.5	1008.9	1049.8	1146.1	1304.2	1363.4
30°	1802.8	1787.5	1661.1	1538.4	1360.9	1186.7	1101.5	1125.8	1239.9	1439.4	1488.1
32.5°	1940.8	1931.6	1869.7	1756.9	1569.1	1373.2	1248.1	1239.5	1365.5	1601.7	1624.0
35°	2083.7	2080.7	2044.5	1963.4	1792.5	1619.5	1442.7	1384.0	1502.1	1770.2	1756.1
37.5°	2216.7	2211.6	2190.6	2143.5	2026.2	1883.7	1640.9	1532.2	1649.6	1931.3	1869.0
40°	2461.5	2422.8	2350.4	2314.9	2262.6	2106.3	1798.2	1670.7	1802.4	2085.0	1966.4
42.5°	2760.2	2697.0	2562.3	2513.6	2506.2	2282.0	1905.7	1804.9	1956.5	2237.3	2062.1
45°	2995.2	2935.8	2819.7	2758.2	2785.4	2441.0	2013.6	1948.2	2115.1	2397.1	2161.0
47.5°	3245.9	3152.6	2998.9	3017.4	3077.0	2591.3	2123.4	2102.3	2288.9	2576.0	2283.6
50°	3255.0	3183.6	3116.2	3227.3	3319.9	2729.6	2260.9	2263.8	2501.7	2801.1	2446.8
52.5°	3066.3	3051.0	3157.9	3332.6	3466.0	2839.2	2417.3	2430.6	2773.8	3059.6	2625.9
55°	3000.2	2982.8	3106.2	3295.9	3485.9	2929.6	2587.2	2611.2	3103.0	3332.3	2800.6
57.5°	3161.2	3122.9	3131.1	3278.5	3437.5	3028.6	2772.2	2820.5	3460.7	3570.6	2913.1
60°	3611.5	3529.3	3373.1	3369.5	3463.5	3177.3	2986.1	3045.2	3832.3	3684.6	2869.2
62.5°	4243.0	4160.7	3868.3	3677.9	3663.8	3422.7	3248.8	3264.5	4047.1	3530.1	2602.0
65°	4926.5	4853.0	4526.3	4257.3	4127.7	3829.0	3554.1	3362.4	3976.9	3105.1	2134.6
67.5°	5756.2	5677.4	5396.5	5148.2	5023.5	4485.0	3768.4	3268.7	3531.2	2405.4	1534.3
70°	6336.6	6255.9	6145.2	6346.4	6651.7	5431.2	3796.1	2887.4	2637.6	1598.9	923.5
72.5°	5579.5	5541.9	5743.9	6591.0	7862.2	6005.3	3431.3	2102.3	1531.9	848.8	534.4
73°	5112.0	5103.7	5448.1	6419.6	7870.9	5916.9	3271.4	1954.1	1313.9	750.9	488.6
75°	2308.4	2374.8	3129.9	4903.4	6838.3	4875.7	2302.5	1120.9	742.2	518.7	368.8
77.5°	554.7	577.8	979.2	2328.5	4318.5	2905.6	1043.3	554.3	474.6	366.4	269.3
80°	236.3	244.1	377.1	860.2	2033.4	1170.1	480.8	371.3	328.3	255.7	188.7
82.5°	131.3	139.5	213.9	390.4	820.7	398.9	293.2	258.5	216.0	154.1	122.7
85°	74.3	79.0	125.1	218.1	347.7	160.3	175.4	171.8	121.8	79.3	60.2
87.5°	35.2	38.0	60.2	101.1	136.4	62.8	89.2	98.4	76.4	48.2	31.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1	1298.1
2.5°	1297.3	1304.7	1313.4	1318.0	1322.0	1327.1	1331.9	1331.9	1332.8	1333.3
5°	1288.2	1303.5	1317.2	1322.9	1324.1	1324.1	1322.9	1316.2	1310.4	1313.1
7.5°	1269.2	1291.6	1303.1	1301.0	1285.4	1267.1	1251.9	1233.3	1223.9	1222.1
10°	1241.9	1267.6	1269.7	1249.0	1210.1	1171.3	1139.1	1107.7	1092.9	1089.1
12.5°	1211.9	1235.3	1222.1	1179.6	1117.2	1060.5	1019.8	988.0	973.9	970.2
15°	1187.4	1203.5	1170.1	1103.2	1024.6	964.8	931.0	907.4	897.4	894.6
17.5°	1174.7	1177.9	1116.9	1026.4	943.0	892.9	871.9	860.8	857.1	854.9
20°	1180.8	1157.6	1066.0	954.9	875.9	841.0	836.0	833.1	832.2	831.0
22.5°	1211.9	1151.4	1019.3	887.2	817.4	802.0	806.1	805.8	805.1	804.2
25°	1267.1	1156.8	973.9	822.8	768.2	764.8	772.4	772.4	769.0	769.0
27.5°	1340.2	1168.1	923.1	761.7	723.7	724.0	729.9	728.2	724.5	722.0
30°	1429.5	1175.1	863.6	706.6	682.0	680.2	682.0	674.8	663.7	662.9
32.5°	1520.7	1166.4	794.6	658.0	637.6	633.9	632.8	622.9	609.9	606.4
35°	1603.4	1134.6	724.5	619.1	595.5	587.3	593.2	589.7	578.1	575.4
37.5°	1663.7	1075.5	661.2	584.8	565.5	563.3	567.1	568.3	554.7	551.7
40°	1704.2	995.4	607.2	556.0	559.6	551.7	539.4	530.7	526.5	525.4
42.5°	1736.8	912.0	561.7	542.2	560.9	538.2	511.3	497.3	504.7	508.0
45°	1774.3	830.7	523.7	525.4	554.7	522.5	491.9	478.3	481.1	482.0
47.5°	1826.0	731.5	482.7	498.1	534.0	511.8	480.0	460.6	446.8	440.7
50°	1897.4	614.1	440.3	467.6	513.8	503.9	461.3	440.7	415.5	409.6
52.5°	1946.9	504.7	405.1	442.0	495.7	488.1	446.5	419.6	393.2	388.2
55°	1920.1	419.1	374.7	413.4	471.7	468.7	434.2	398.2	377.5	373.3
57.5°	1785.9	365.2	351.1	386.6	442.3	452.2	417.5	380.0	365.2	362.2
60°	1529.9	331.3	336.1	368.5	418.4	435.8	401.1	370.0	360.1	358.1
62.5°	1187.0	308.5	325.0	355.2	399.7	424.2	391.9	368.8	365.2	362.6
65°	850.3	290.3	313.1	342.0	382.9	413.4	388.6	367.1	367.9	365.9
67.5°	577.8	274.3	298.5	327.2	366.4	404.0	384.1	361.4	371.7	369.3
70°	404.3	258.5	281.7	308.1	345.7	390.8	375.9	352.8	351.9	342.0
72.5°	315.6	238.0	258.5	281.7	319.3	372.2	359.3	333.4	319.6	309.3
73°	301.1	232.9	252.8	275.9	313.5	367.5	354.8	327.9	312.7	303.2
75°	249.0	211.6	229.6	250.3	288.6	346.0	332.6	303.5	284.1	278.4
77.5°	195.8	180.9	198.3	216.9	254.4	314.8	299.4	271.7	261.0	256.0
80°	144.9	149.9	165.2	181.7	220.5	281.3	267.6	239.9	287.8	275.9
82.5°	102.0	113.5	127.6	142.6	185.1	248.7	232.1	203.6	210.7	175.1
85°	60.2	74.3	87.6	100.4	133.4	206.2	191.7	162.4	132.9	126.8
87.5°	35.2	41.3	45.0	58.2	91.6	155.2	135.0	120.3	69.0	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)