

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: P193691

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9771 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

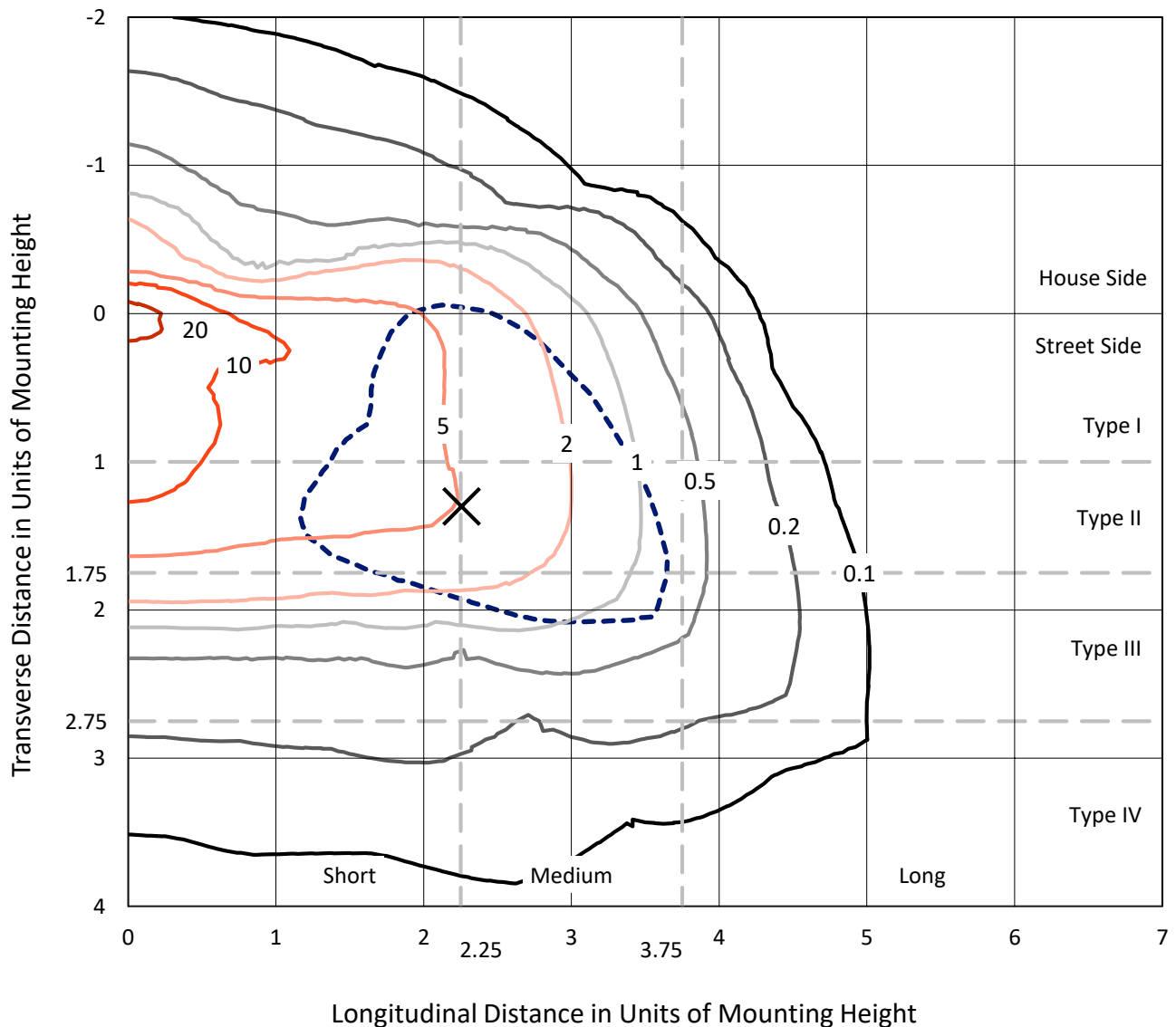
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193691
 CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-8030-600

Iso-Footcandle Lines of Horizontal Illumination

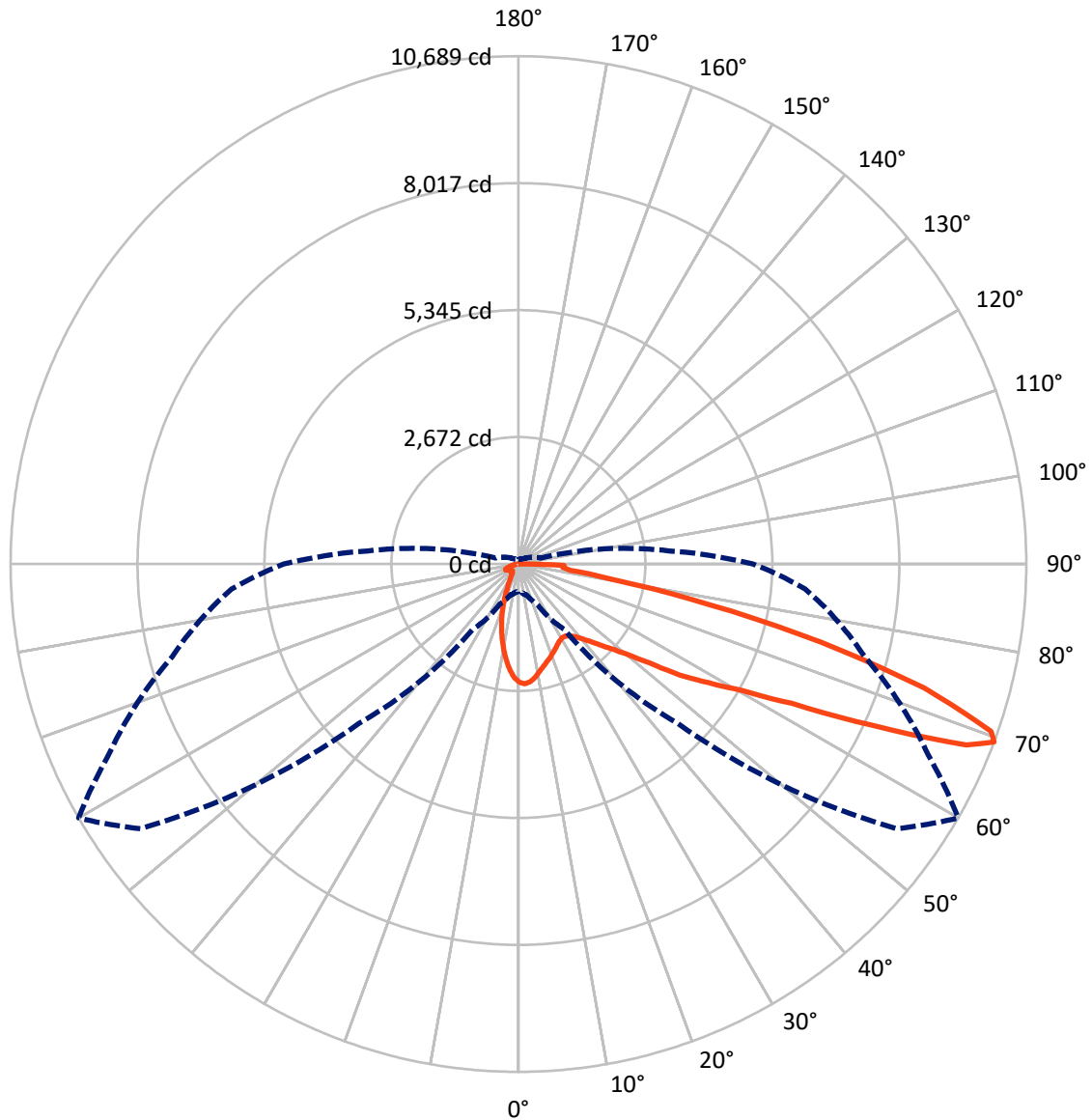
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P193691
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P193691

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.1	0.0	1390.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8380.9	0.0	8380.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	9771.0	0.0	9771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	2.2
10°-20°	448.5	4.6
20°-30°	571.5	5.8
30°-40°	785.7	8.0
40°-50°	1274.8	13.0
50°-60°	2044.5	20.9
60°-70°	2721.1	27.8
70°-80°	1469.2	15.0
80°-90°	245.1	2.5
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°	9771.0	100.0
0°-180°	9771.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193691

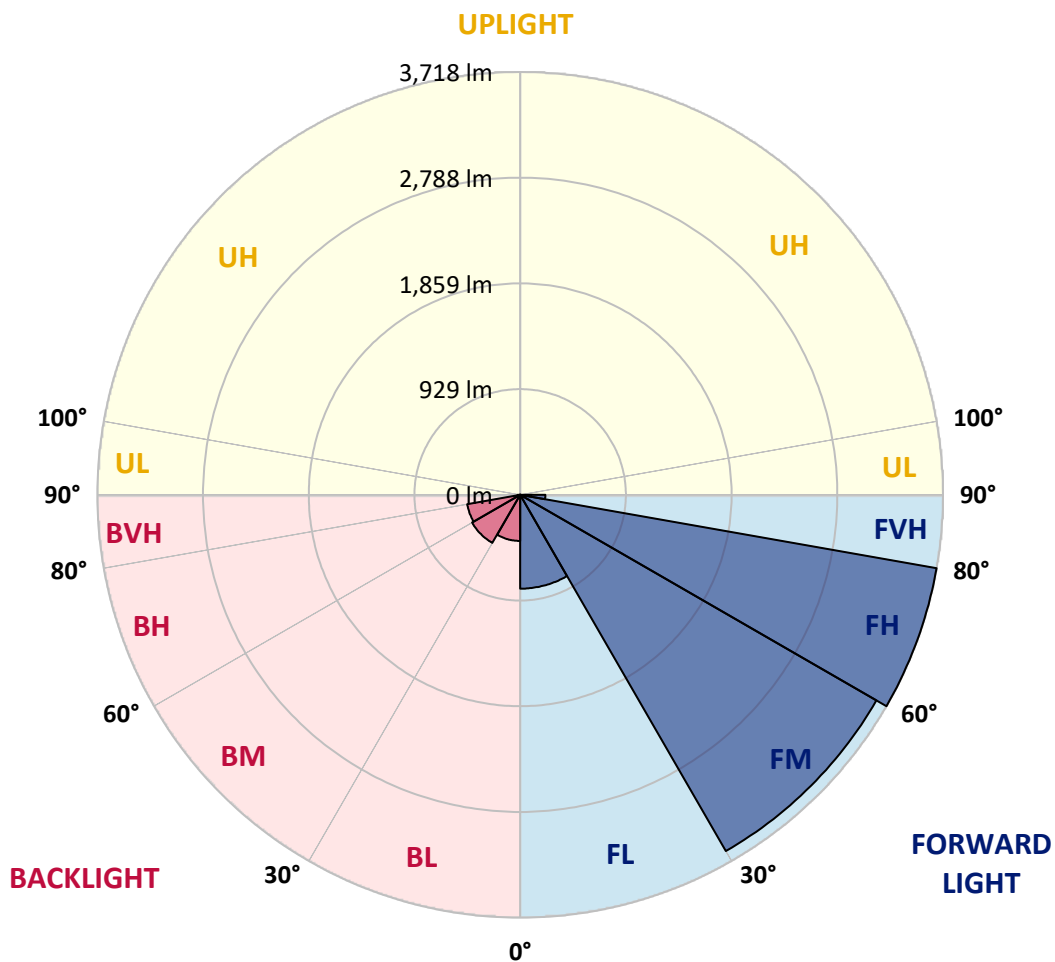
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.0	8.4			
FM (30°-60°)	3616.7	37.0			
FH (60°-80°)	3717.7	38.0			G2/5000
FVH (80°-90°)	221.5	2.3			G2/225
BL (0°-30°)	405.5	4.2	B1/500		
BM (30°-60°)	488.4	5.0	B1/1000		
BH (60°-80°)	472.6	4.8	B1/500		G1/500
BVH (80°-90°)	23.6	0.2			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 III Medium





REPORT NUMBER: P193691

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8
2.5°	2540.8	2546.4	2544.1	2542.7	2546.9	2540.3	2526.6	2522.4	2515.8	2500.2	2473.8
5°	2445.4	2462.4	2461.5	2474.2	2495.5	2501.1	2495.0	2495.9	2483.7	2464.3	2420.4
7.5°	2280.7	2287.8	2291.6	2319.4	2358.1	2389.3	2415.7	2424.2	2418.5	2402.0	2345.4
10°	2110.8	2116.4	2125.4	2158.0	2207.1	2250.0	2300.1	2328.8	2341.1	2338.3	2275.0
12.5°	1964.9	1970.6	1982.4	2019.2	2077.7	2130.6	2203.3	2239.2	2268.4	2285.9	2217.9
15°	1834.2	1846.5	1857.8	1900.3	1965.9	2035.3	2117.4	2162.7	2208.0	2247.2	2167.4
17.5°	1732.2	1744.5	1751.1	1789.8	1859.7	1944.6	2040.9	2094.3	2150.9	2215.1	2117.4
20°	1673.2	1678.9	1676.1	1697.8	1760.6	1850.7	1964.9	2026.8	2095.2	2184.9	2067.4
22.5°	1656.7	1657.2	1646.8	1644.4	1685.0	1761.0	1883.8	1958.8	2042.8	2165.1	2024.4
25°	1696.8	1695.4	1667.1	1644.0	1648.2	1692.6	1805.4	1892.7	1998.9	2160.8	1991.4
27.5°	1786.0	1790.3	1748.3	1704.9	1661.9	1660.5	1745.9	1838.0	1963.0	2180.2	1977.2
30°	1911.1	1918.2	1873.4	1818.1	1737.4	1670.9	1722.8	1805.4	1940.9	2220.3	1974.8
32.5°	2048.0	2055.6	2021.6	1963.5	1857.8	1735.1	1738.8	1808.2	1939.9	2276.5	1990.9
35°	2193.9	2202.4	2184.9	2135.8	2018.3	1853.5	1800.2	1854.0	1970.6	2362.4	2033.8
37.5°	2356.7	2369.9	2374.6	2327.9	2202.4	2009.8	1900.7	1940.9	2040.0	2481.8	2112.7
40°	2591.3	2609.7	2608.3	2541.2	2413.3	2220.8	2056.0	2066.4	2148.1	2641.3	2238.7
42.5°	3040.6	3044.4	2926.9	2781.0	2645.6	2442.6	2239.2	2230.7	2297.2	2843.3	2424.2
45°	3612.2	3596.6	3335.2	3053.4	2888.2	2697.5	2477.5	2436.0	2486.5	3089.7	2656.4
47.5°	4086.6	4050.7	3720.3	3331.4	3144.9	2974.5	2757.4	2684.7	2712.6	3369.1	2956.6
50°	4251.3	4224.4	3950.6	3562.7	3388.0	3312.5	3102.0	2999.1	3006.6	3702.4	3308.2
52.5°	4215.9	4212.1	4029.5	3715.1	3615.5	3667.4	3590.0	3450.8	3377.2	4072.4	3687.7
55°	4132.4	4140.4	4074.3	3892.6	3875.6	4010.1	4227.7	4124.8	3895.9	4445.8	4080.0
57.5°	3842.1	3862.8	4008.2	4115.8	4294.3	4494.4	4741.2	4712.0	4454.3	4849.3	4546.3
60°	3095.4	3143.5	3533.4	4072.4	4725.2	5351.1	5461.5	5393.5	5030.1	5350.1	5162.3
62.5°	2168.8	2218.9	2682.4	3525.8	4654.4	6318.7	6749.1	6456.0	5857.0	6087.9	5959.5
65°	1161.1	1185.2	1539.2	2446.4	3929.4	6518.3	8631.0	8184.9	7166.4	6997.4	6641.5
67.5°	640.5	653.7	789.2	1235.2	2516.7	5740.0	9829.9	10166.9	8802.8	7603.0	6517.4
69°	579.1	591.4	680.2	935.5	1684.1	4746.0	9712.8	10689.4	9520.2	7543.0	6058.6
70°	566.4	577.7	657.5	862.3	1363.1	3911.9	9320.6	10555.8	9691.1	7328.3	5658.3
72.5°	509.8	522.0	599.4	774.6	1164.9	1950.3	7383.0	8925.0	8798.5	6354.1	4291.9
75°	475.3	486.6	617.8	758.5	1115.3	1234.3	4867.3	6577.8	6467.8	4444.8	2314.2
77.5°	203.4	202.5	286.5	641.9	1131.9	1195.1	2615.4	4109.2	3749.1	1899.8	664.6
80°	135.9	133.6	135.9	188.8	1037.9	1201.7	1370.2	2085.8	1575.5	484.3	327.6
82.5°	117.1	115.2	119.4	115.2	364.9	1371.6	1164.9	1109.2	749.1	275.2	162.4
85°	78.8	75.5	102.9	103.4	172.3	1218.7	1312.2	936.9	606.0	163.3	80.2
87.5°	37.8	36.8	59.9	73.2	101.0	495.1	1472.2	960.0	611.2	83.5	38.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193691

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8	2489.8
2.5°	2465.7	2446.4	2427.5	2404.8	2381.2	2354.8	2341.6	2328.4	2325.1	2321.3	2308.1
5°	2397.8	2370.4	2323.2	2271.3	2216.5	2163.2	2122.6	2097.1	2077.7	2067.8	2050.4
7.5°	2310.0	2269.8	2187.2	2097.6	2005.5	1921.5	1848.8	1803.0	1759.6	1739.3	1716.2
10°	2226.4	2166.5	2038.1	1905.9	1773.8	1646.8	1527.4	1442.9	1367.9	1325.8	1296.1
12.5°	2154.7	2072.6	1894.6	1715.7	1534.5	1353.7	1174.8	1034.2	916.6	854.8	823.2
15°	2084.8	1985.7	1758.2	1531.2	1298.5	1052.6	817.5	658.0	560.7	522.0	508.8
17.5°	2021.6	1894.6	1621.3	1345.2	1054.9	757.6	549.4	461.6	424.3	411.6	407.3
20°	1953.1	1802.6	1479.2	1150.7	801.0	529.6	429.0	390.3	375.2	371.5	369.6
22.5°	1887.1	1711.9	1343.3	942.6	575.4	408.8	368.6	352.6	350.2	353.5	353.5
25°	1830.9	1630.8	1196.5	725.0	422.4	344.1	329.9	326.2	335.1	347.4	349.8
27.5°	1788.9	1564.2	1040.3	535.2	336.5	299.2	298.8	304.9	327.1	350.7	355.4
30°	1760.1	1501.0	873.2	386.1	282.3	263.4	270.9	284.1	316.7	350.2	359.2
32.5°	1745.5	1454.2	699.0	298.8	241.7	231.3	244.0	260.1	292.2	323.3	335.1
35°	1756.8	1419.8	534.8	249.2	213.3	205.3	218.5	234.1	253.0	266.2	275.2
37.5°	1799.3	1406.1	403.6	223.3	194.0	186.4	196.8	205.8	213.3	217.1	221.4
40°	1890.8	1420.7	323.3	210.0	183.1	173.7	177.9	181.2	186.0	189.7	191.6
42.5°	2025.8	1464.6	289.8	204.8	177.5	163.8	162.8	164.3	170.4	177.5	178.9
45°	2214.6	1542.0	287.4	208.2	174.6	155.8	151.5	153.4	162.8	173.7	175.6
47.5°	2455.8	1660.0	306.3	218.1	177.0	151.5	144.4	146.8	158.6	173.2	175.6
50°	2748.0	1824.8	338.0	232.7	187.4	152.5	142.1	143.5	155.8	171.8	174.2
52.5°	3093.0	2058.4	372.4	246.9	198.2	158.6	144.0	140.7	152.0	166.1	169.0
55°	3476.8	2358.1	407.8	259.6	203.9	166.1	147.7	136.9	144.9	156.7	159.1
57.5°	3947.8	2777.2	469.2	271.9	207.7	171.3	151.5	133.1	135.9	144.4	146.3
60°	4585.5	3370.1	577.3	292.2	216.2	173.2	151.0	129.8	127.0	131.7	132.6
62.5°	5349.6	4013.9	667.4	317.7	230.3	174.6	148.2	127.4	119.4	119.4	120.4
65°	5803.2	4186.2	617.4	338.9	242.1	173.2	144.9	125.1	113.8	108.6	109.0
67.5°	5418.6	3681.6	529.1	343.1	241.7	166.6	139.7	120.8	108.1	100.1	99.6
69°	4936.6	3176.6	489.5	331.8	230.3	158.1	133.1	116.1	103.8	95.3	94.9
70°	4548.2	2868.3	463.5	319.5	218.1	152.0	127.9	111.9	100.5	92.5	91.6
72.5°	3306.8	1879.5	396.0	274.7	179.8	127.4	110.4	98.2	89.7	85.0	84.0
75°	1652.5	896.3	321.4	222.8	137.8	102.0	90.6	82.1	77.9	76.9	76.5
77.5°	542.8	410.6	229.9	166.1	102.4	79.8	73.2	67.0	66.1	68.9	68.0
80°	298.3	238.8	145.8	110.0	69.9	58.5	57.6	54.3	55.7	60.4	59.5
82.5°	152.0	124.1	90.2	66.1	47.2	42.0	45.8	43.9	45.8	50.0	49.6
85°	75.0	68.0	57.1	40.1	31.2	26.9	32.6	34.0	34.9	38.2	38.2
87.5°	43.4	40.1	30.2	18.9	15.6	14.2	18.9	18.4	21.7	23.6	23.1
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)