

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: P318506

Luminaire Tested: **GLEON-SA2A-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2A-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7011 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

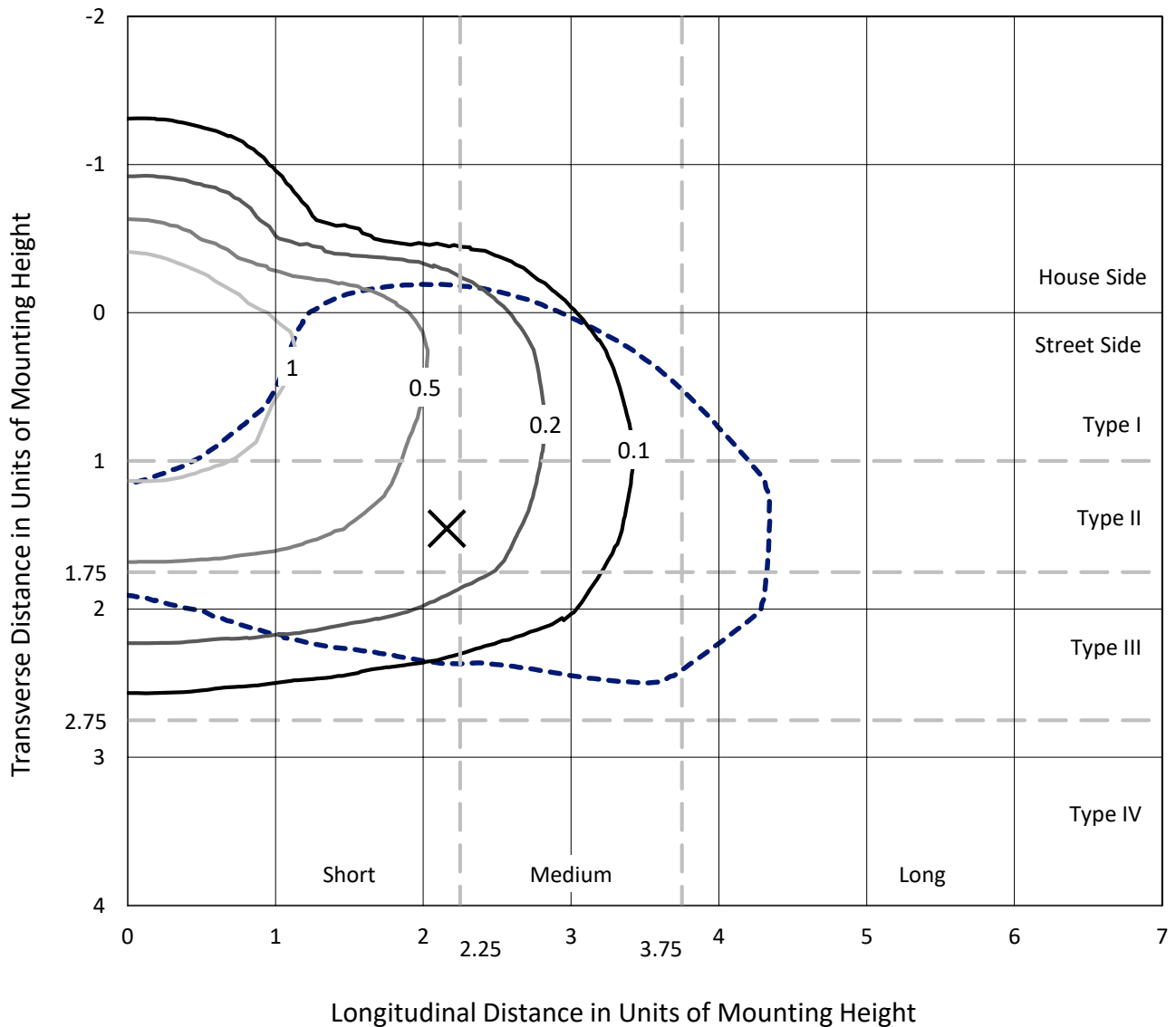
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

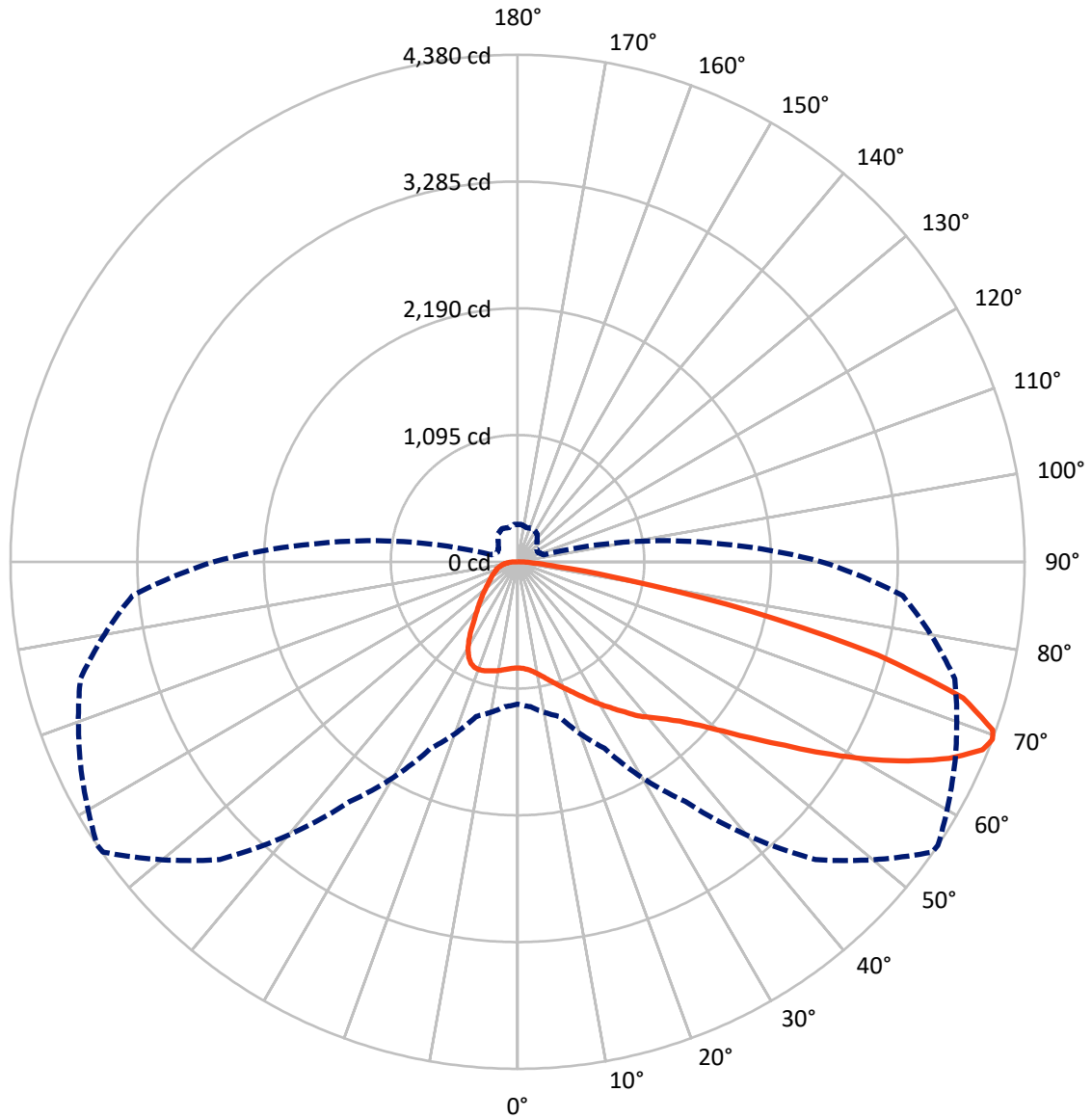
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1561.3	0.0	1561.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	5449.7	0.0	5449.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	7011.0	0.0	7011.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	1.3
10°-20°	289.5	4.1
20°-30°	505.3	7.2
30°-40°	725.9	10.4
40°-50°	1004.6	14.3
50°-60°	1471.8	21.0
60°-70°	1794.4	25.6
70°-80°	992.1	14.2
80°-90°	137.4	2.0
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°	7011.0	100.0
0°-180°	7011.0	100.0

**Coefficient of Utilization**

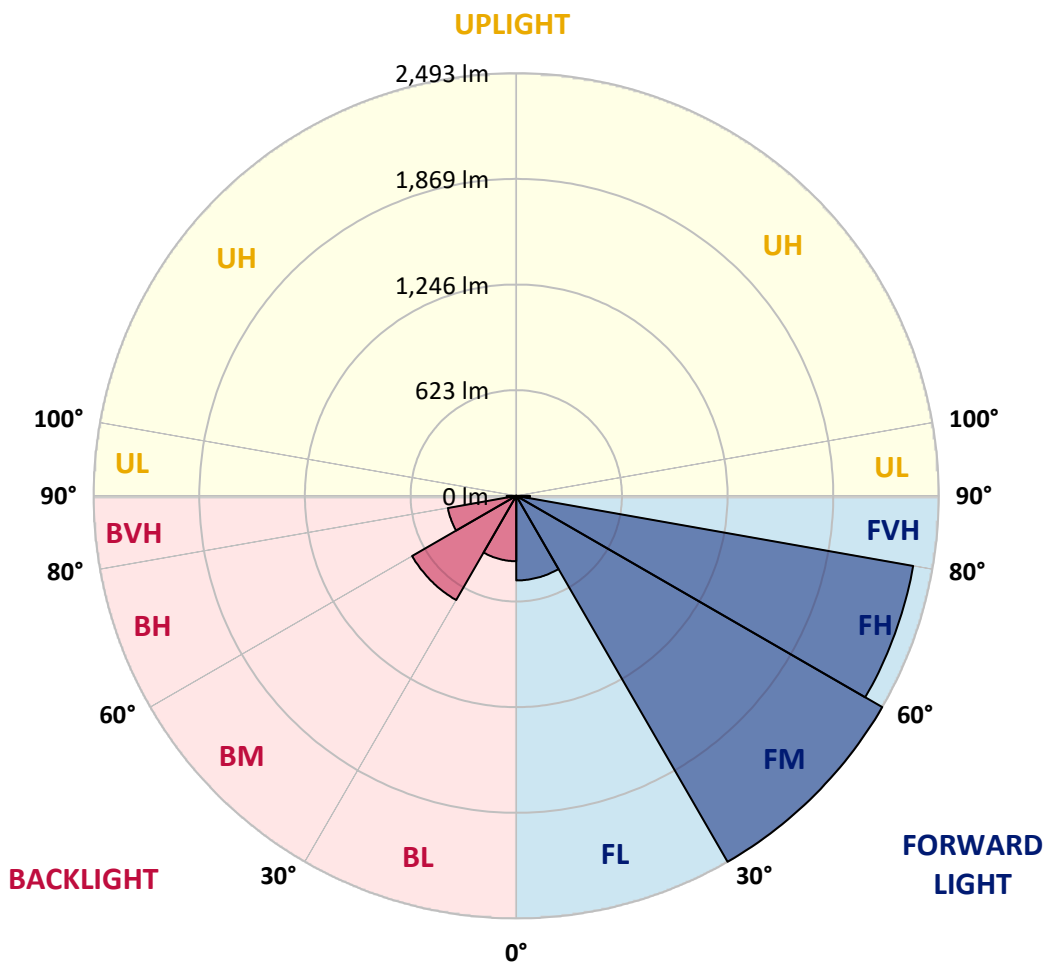


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.0	7.1			
FM (30°-60°)	2492.7	35.6			
FH (60°-80°)	2377.1	33.9			G2/5000
FVH (80°-90°)	80.9	1.2			G1/100
BL (0°-30°)	385.8	5.5	B1/500		
BM (30°-60°)	709.6	10.1	B1/1000		
BH (60°-80°)	409.4	5.8	B1/500		G1/500
BVH (80°-90°)	56.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	922.4	923.3	922.6	924.6	922.4	923.8	922.6	922.6	921.9	919.7	917.3
5°	936.9	938.8	937.6	939.5	936.9	937.4	935.2	935.2	933.0	928.4	923.6
7.5°	959.6	961.7	960.8	962.7	959.1	959.1	956.2	956.0	951.6	944.1	938.6
10°	986.6	989.5	988.6	991.5	988.6	989.5	986.6	986.6	980.8	970.2	963.2
12.5°	1026.0	1029.6	1027.0	1026.7	1025.5	1027.4	1025.0	1024.5	1019.2	1004.7	995.1
15°	1078.6	1082.5	1077.0	1076.5	1069.7	1069.0	1069.0	1068.3	1064.9	1047.5	1031.5
17.5°	1139.3	1140.5	1135.6	1127.9	1119.2	1113.7	1112.9	1114.9	1114.9	1094.6	1069.2
20°	1198.7	1200.9	1197.0	1188.3	1177.2	1169.0	1163.2	1167.0	1166.8	1142.6	1106.7
22.5°	1263.4	1268.5	1262.7	1251.6	1238.5	1229.4	1219.2	1222.6	1222.8	1193.1	1143.4
25°	1347.2	1342.6	1339.0	1323.3	1304.7	1295.3	1285.9	1289.3	1288.3	1247.5	1181.3
27.5°	1421.4	1422.3	1417.5	1400.8	1379.3	1358.6	1358.1	1360.3	1356.6	1304.0	1217.0
30°	1507.6	1508.1	1501.3	1486.3	1462.9	1436.1	1429.8	1433.4	1425.7	1357.6	1254.7
32.5°	1593.3	1595.7	1588.3	1570.1	1551.3	1518.7	1506.1	1508.6	1489.2	1412.4	1293.6
35°	1668.4	1671.8	1669.4	1657.3	1636.8	1608.8	1593.8	1592.4	1568.5	1479.6	1345.0
37.5°	1745.0	1748.1	1745.5	1735.3	1727.1	1697.4	1689.5	1689.5	1647.9	1548.2	1410.5
40°	1823.7	1828.6	1825.4	1811.4	1804.4	1790.9	1771.8	1767.2	1722.3	1630.5	1517.3
42.5°	1896.9	1903.2	1915.8	1907.6	1893.3	1895.2	1856.8	1854.4	1821.6	1752.3	1651.3
45°	2000.8	2010.0	2031.2	2024.9	2022.0	2011.4	1965.8	1963.6	1951.0	1916.0	1817.7
47.5°	2114.1	2126.6	2165.0	2166.2	2197.4	2177.3	2115.3	2107.8	2110.7	2112.1	2020.8
50°	2218.4	2232.2	2295.2	2324.9	2398.3	2402.7	2303.4	2296.6	2308.0	2341.3	2257.5
52.5°	2301.7	2319.1	2397.8	2489.6	2615.5	2651.2	2535.0	2530.0	2538.4	2595.9	2525.1
55°	2362.8	2381.7	2467.4	2634.5	2835.5	2898.5	2801.7	2796.8	2802.2	2875.3	2816.2
57.5°	2377.1	2381.7	2506.1	2732.1	3021.2	3172.7	3128.0	3118.3	3092.2	3156.0	3137.4
60°	2310.2	2328.5	2474.2	2766.4	3164.9	3442.9	3469.0	3456.9	3383.7	3435.9	3420.9
62.5°	2174.4	2207.3	2355.1	2714.2	3221.2	3663.7	3803.5	3789.0	3662.9	3696.8	3624.8
65°	1952.7	1966.7	2122.0	2534.3	3149.7	3805.0	4101.8	4094.6	3935.9	3883.0	3662.5
67.5°	1556.1	1582.5	1714.3	2158.3	2857.2	3788.3	4332.5	4331.7	4114.1	3952.1	3528.9
69°	1229.4	1256.6	1382.2	1777.9	2528.3	3635.9	4371.1	4379.6	4164.4	3910.0	3338.1
70°	980.1	1011.7	1098.0	1497.4	2236.3	3435.0	4339.0	4354.2	4154.7	3840.7	3162.0
72.5°	417.1	442.7	504.1	771.9	1362.9	2565.0	3967.3	4024.8	3930.8	3515.1	2613.3
75°	182.1	190.1	217.9	314.7	605.0	1396.0	3107.9	3214.2	3361.0	2971.2	1946.7
77.5°	133.3	136.7	151.9	184.8	271.5	527.2	1998.6	2060.4	2423.9	2162.1	1194.1
80°	103.1	105.5	117.4	135.7	177.3	213.3	911.5	964.6	1362.9	1110.5	497.3
82.5°	82.1	83.8	92.0	100.0	122.5	129.2	302.6	335.7	503.1	306.7	131.6
85°	76.3	78.3	81.2	72.9	78.5	75.8	130.9	136.9	151.9	120.5	55.1
87.5°	34.5	40.8	80.4	56.8	41.8	33.3	53.6	56.0	63.0	63.3	24.4
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°	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6
2.5°	918.8	918.0	919.2	916.3	920.0	919.7	918.5	919.0	921.4	921.2	921.4
5°	924.3	923.8	925.3	923.1	927.5	928.9	929.1	931.3	934.0	934.7	934.7
7.5°	938.3	938.3	939.0	936.1	939.0	938.8	937.6	939.8	942.4	942.7	942.4
10°	962.5	962.7	961.5	954.0	951.6	945.1	939.0	939.3	942.7	945.3	946.0
12.5°	992.9	991.9	986.6	972.9	962.7	949.4	943.2	942.9	946.3	948.5	949.2
15°	1027.7	1025.0	1011.3	988.8	970.9	957.9	947.7	945.3	943.4	941.0	941.2
17.5°	1060.5	1054.5	1031.5	1000.4	981.6	964.2	944.6	928.9	918.0	911.8	909.8
20°	1093.9	1082.0	1048.9	1011.3	987.3	955.7	918.0	886.2	866.3	857.2	855.5
22.5°	1124.3	1105.2	1065.1	1022.6	982.8	927.2	868.0	821.7	794.1	781.8	782.8
25°	1154.0	1127.4	1082.0	1030.6	959.6	877.0	798.5	741.5	709.6	695.8	695.3
27.5°	1180.1	1149.9	1100.4	1024.1	916.3	805.5	716.1	660.6	634.0	622.2	620.2
30°	1210.0	1178.2	1124.8	999.2	853.1	722.9	635.7	596.6	577.7	565.9	563.7
32.5°	1246.5	1216.6	1144.8	954.0	772.2	636.7	572.9	545.6	528.5	515.2	512.8
35°	1299.6	1267.3	1149.9	889.3	683.3	568.5	526.8	498.7	475.6	458.4	456.7
37.5°	1366.3	1330.8	1138.3	805.5	597.0	524.3	488.4	453.8	423.6	399.5	395.6
40°	1462.4	1408.8	1106.2	708.9	533.5	490.3	450.9	411.6	374.1	345.9	340.3
42.5°	1577.9	1500.3	1056.9	612.7	486.9	455.8	413.7	364.9	329.2	309.2	306.3
45°	1724.7	1595.5	988.6	528.7	441.0	421.2	373.6	328.7	306.5	291.8	289.3
47.5°	1892.3	1702.3	916.8	460.3	402.1	388.9	341.5	312.5	294.9	283.3	281.1
50°	2098.4	1822.8	840.7	404.3	363.0	350.0	326.3	303.6	289.6	280.7	278.5
52.5°	2330.7	1958.8	785.9	360.1	330.6	321.2	318.3	298.8	287.4	280.7	278.5
55°	2580.9	2097.2	726.7	322.9	302.6	305.3	313.0	299.2	291.5	283.3	280.2
57.5°	2831.4	2240.1	660.8	291.5	280.4	293.5	309.4	300.2	293.7	285.7	282.8
60°	3029.4	2330.7	558.6	265.2	262.8	280.4	300.7	293.0	284.5	284.8	284.3
62.5°	3121.9	2325.9	445.9	241.8	245.1	262.8	286.7	281.6	274.6	284.0	284.8
65°	3070.0	2209.9	347.1	220.5	226.3	244.4	272.2	276.1	278.5	296.6	299.0
67.5°	2852.2	1984.4	268.8	201.9	209.2	231.9	273.6	300.7	303.8	322.9	322.7
69°	2626.8	1772.8	233.6	192.3	200.7	235.0	292.5	316.4	304.6	324.8	322.0
70°	2437.9	1605.4	214.7	185.7	196.8	240.6	305.0	316.2	300.9	318.3	313.5
72.5°	1877.6	1155.0	182.1	173.7	183.8	230.2	308.7	309.2	292.5	295.9	287.7
75°	1287.8	729.9	158.9	157.2	164.0	207.5	297.1	295.4	270.5	265.7	258.9
77.5°	710.1	370.7	135.0	141.5	146.1	183.8	270.0	267.6	247.1	236.9	234.5
80°	273.9	162.3	114.0	125.8	128.7	159.2	236.7	234.5	217.4	204.3	200.7
82.5°	103.4	85.0	94.2	108.9	108.0	131.4	200.5	199.3	182.6	163.5	157.7
85°	47.8	51.0	74.6	89.8	82.8	97.3	160.4	162.5	142.3	119.6	119.6
87.5°	20.3	28.5	52.9	67.9	55.8	65.7	117.6	112.3	103.1	71.5	67.1
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)