

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: P528164

Luminaire Tested: **GALN-SA3B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12484 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

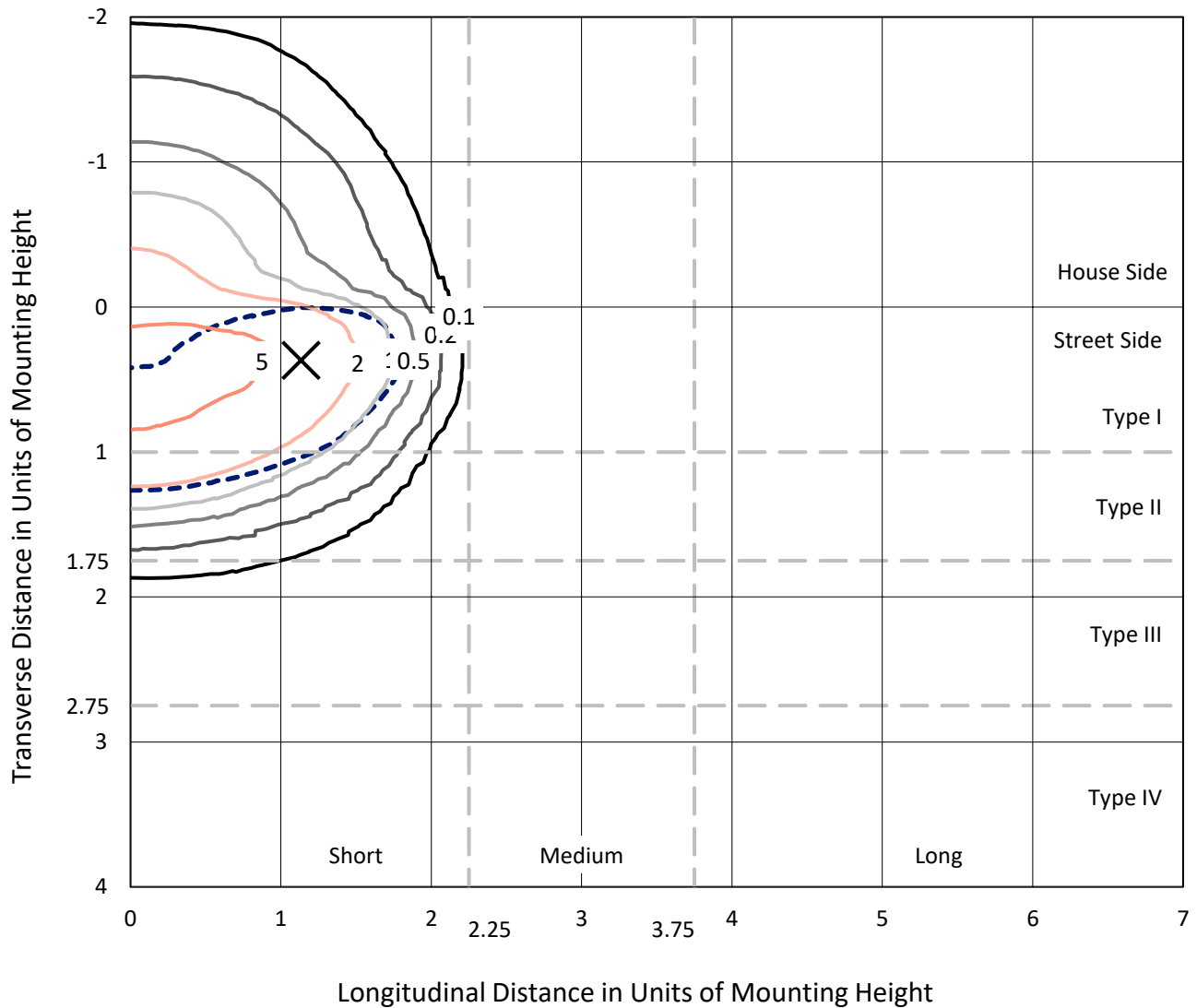
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

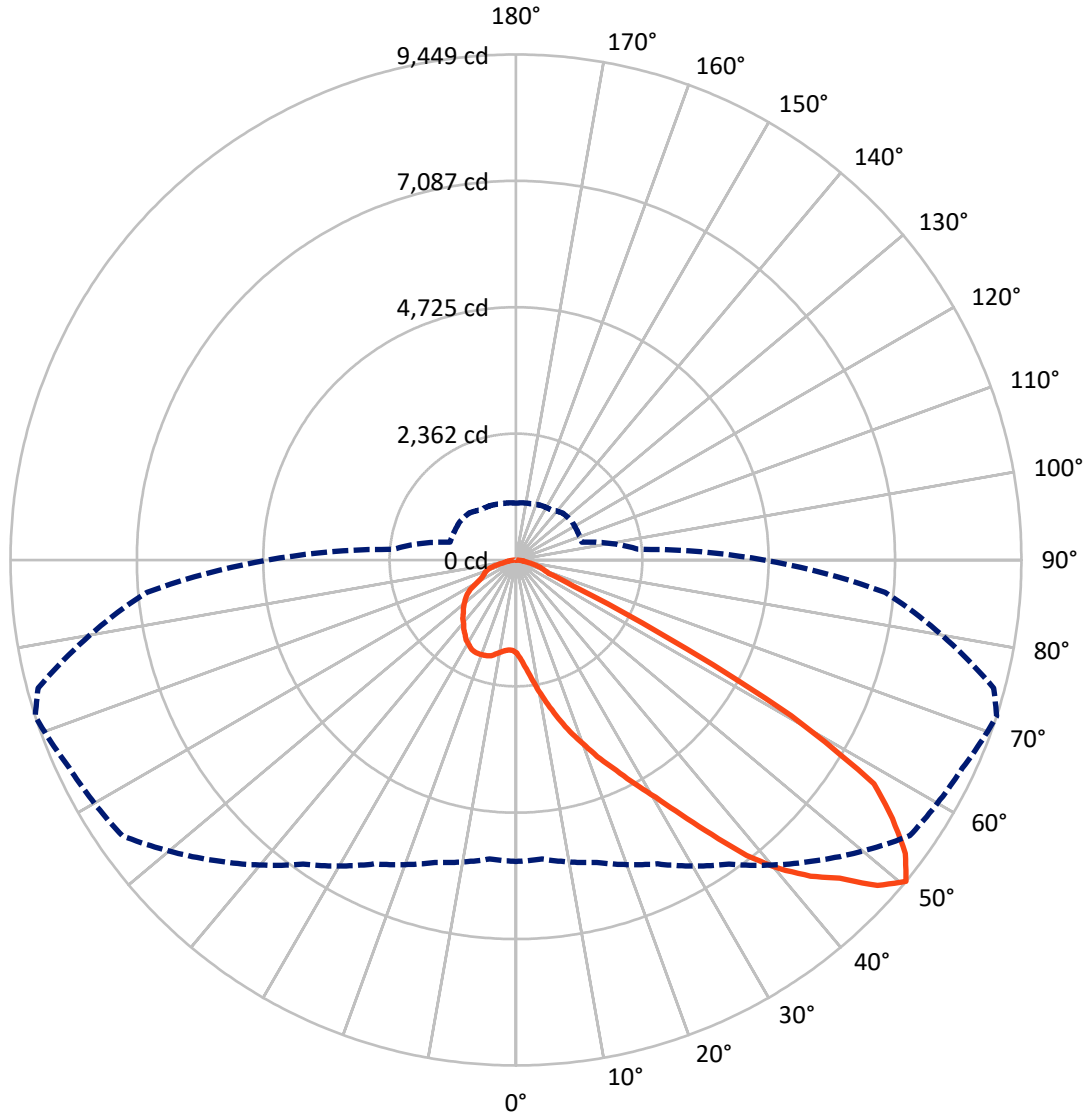
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2860.2	0.0	2860.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9623.8	0.0	9623.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	12484.0	0.0	12484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.6
10°-20°	764.2	6.1
20°-30°	1481.7	11.9
30°-40°	2454.7	19.7
40°-50°	3434.6	27.5
50°-60°	2897.5	23.2
60°-70°	883.2	7.1
70°-80°	309.8	2.5
80°-90°	53.9	0.4
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°	12484.0	100.0
0°-180°	12484.0	100.0

Coefficient of Utilization



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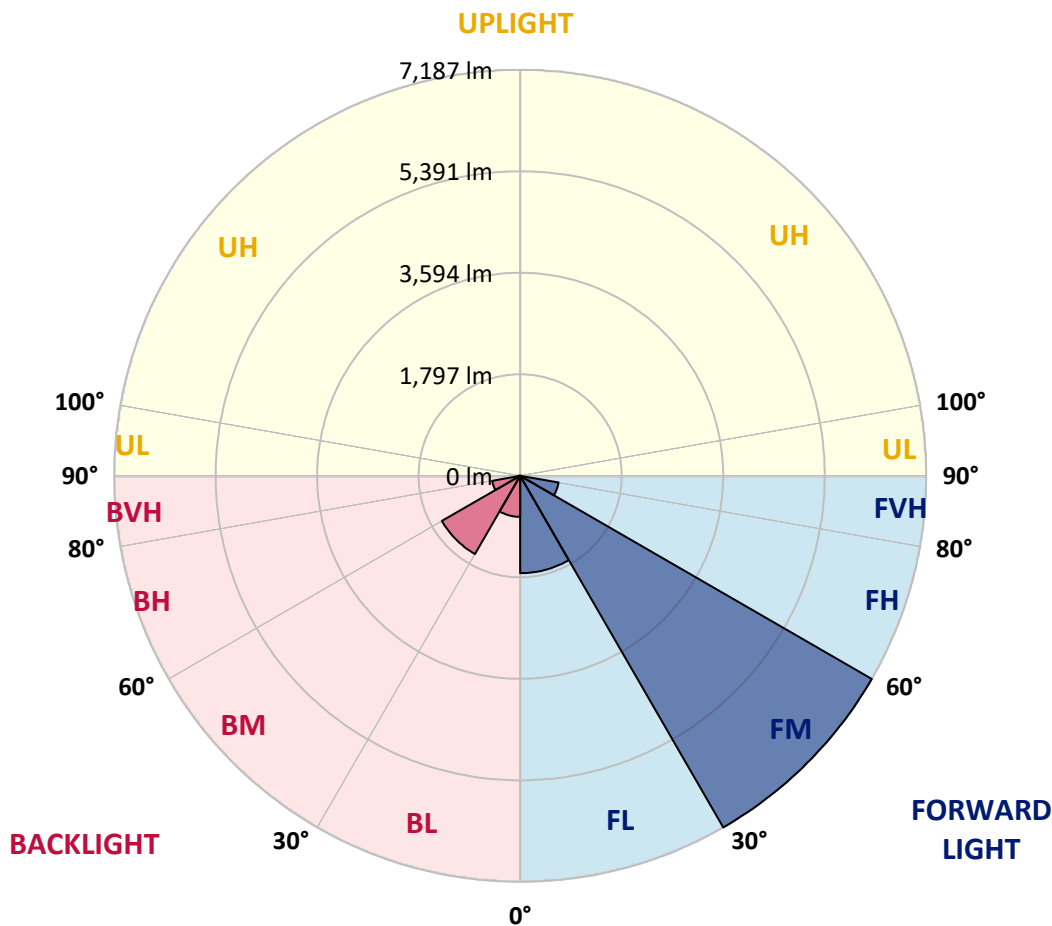
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.2	13.8			
FM (30°-60°)	7187.4	57.6			
FH (60°-80°)	689.1	5.5			G1/1800
FVH (80°-90°)	24.1	0.2			G1/100
BL (0°-30°)	727.1	5.8	B2/1000		
BM (30°-60°)	1599.4	12.8	B2/2500		
BH (60°-80°)	503.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	29.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9
2.5°	2235.3	2221.4	2179.7	2165.8	2116.4	2026.8	1995.9	1904.7	1866.1	1830.6	1788.9
5°	2827.0	2762.1	2757.4	2678.7	2564.3	2497.9	2300.2	2167.3	2045.3	1983.5	1869.2
7.5°	3203.9	3205.4	3205.4	3140.5	3049.4	2881.0	2703.4	2463.9	2280.1	2189.0	1994.3
10°	3562.3	3531.4	3514.4	3508.2	3446.4	3282.7	3092.7	2796.1	2544.3	2437.7	2088.5
12.5°	3815.6	3789.3	3828.0	3807.9	3763.1	3656.5	3477.3	3139.0	2823.9	2680.2	2239.9
15°	3936.1	3954.6	3985.5	4041.1	4021.1	3980.9	3783.2	3491.2	3125.1	2962.9	2374.3
17.5°	4121.5	4070.5	4107.6	4177.1	4232.7	4214.2	4101.4	3746.1	3423.2	3224.0	2555.1
20°	4251.2	4221.9	4240.4	4320.8	4362.5	4467.5	4408.8	4079.8	3709.0	3498.9	2768.2
22.5°	4622.0	4578.7	4518.5	4530.8	4546.3	4620.4	4634.3	4445.9	4041.1	3818.7	2970.6
25°	5079.2	5039.1	4968.0	4895.4	4850.6	4836.7	4884.6	4733.2	4359.4	4129.2	3188.4
27.5°	5582.8	5514.9	5470.1	5320.2	5199.7	5181.2	5158.0	5076.2	4736.3	4487.6	3434.0
30°	6072.5	6018.5	5958.2	5718.8	5593.7	5573.6	5459.3	5482.4	5145.7	4869.2	3712.1
32.5°	6443.3	6447.9	6310.4	6129.7	6012.3	5905.7	5864.0	5930.4	5670.9	5448.4	4022.6
35°	6743.0	6756.9	6625.6	6461.8	6335.1	6409.3	6390.8	6421.7	6298.1	6026.2	4384.1
37.5°	7034.9	6965.4	6824.8	6746.1	6679.6	6801.7	6959.2	6985.5	7008.7	6688.9	4804.3
40°	7082.8	7089.0	7007.1	7062.7	6979.3	7163.2	7529.3	7495.3	7589.5	7309.9	5260.0
42.5°	7014.9	7028.8	7061.2	7140.0	7340.8	7561.7	8105.5	7966.4	8080.8	7832.0	5703.3
45°	6903.6	6846.5	6886.6	7186.3	7533.9	8025.1	8632.2	8524.1	8487.0	8278.5	6231.6
47.5°	6372.2	6430.9	6556.1	6925.3	7447.4	8105.5	9006.1	8981.4	9092.6	8945.8	6712.1
50°	5635.4	5612.2	5853.2	6268.7	6942.2	7947.9	8986.0	9210.0	9449.4	9245.5	6926.8
52.5°	4220.3	4343.9	4550.9	5066.9	6027.7	7089.0	8547.3	8921.1	9115.8	9072.5	6753.8
55°	2667.8	2704.9	2830.0	3443.3	4308.4	5689.4	7326.9	8193.5	8541.1	8703.3	6594.7
57.5°	1296.1	1226.6	1379.5	1872.3	2488.6	3826.4	5650.8	7136.9	7892.3	8185.8	6248.6
60°	676.6	702.9	763.1	939.2	1286.8	1986.6	3522.1	4756.4	5910.3	6361.4	4736.3
62.5°	560.8	570.0	610.2	698.2	855.8	1143.1	1798.1	2318.7	3013.9	3420.1	2694.1
65°	475.8	480.4	523.7	582.4	682.8	804.8	925.3	968.6	1172.5	1203.4	957.8
67.5°	397.0	401.6	448.0	503.6	568.5	600.9	631.8	628.7	651.9	642.6	641.1
70°	305.9	310.5	358.4	417.1	449.5	431.0	526.8	548.4	557.7	565.4	577.7
72.5°	220.9	230.2	267.2	309.0	292.0	335.2	434.1	466.5	478.9	483.5	499.0
75°	160.7	163.7	173.0	160.7	185.4	233.3	305.9	346.0	361.5	366.1	389.3
77.5°	71.1	72.6	74.1	92.7	118.9	145.2	182.3	214.7	236.4	242.5	248.7
80°	37.1	38.6	47.9	63.3	85.0	106.6	132.9	151.4	165.3	166.8	173.0
82.5°	23.2	24.7	34.0	44.8	60.2	78.8	97.3	112.8	123.6	125.1	126.7
85°	10.8	13.9	20.1	27.8	40.2	51.0	52.5	44.8	47.9	49.4	46.3
87.5°	3.1	4.6	6.2	4.6	6.2	6.2	7.7	9.3	9.3	9.3	10.8
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°	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9	1737.9
2.5°	1765.7	1751.8	1697.7	1677.6	1625.1	1634.4	1606.6	1605.0	1598.8	1597.3	1595.8
5°	1808.9	1765.7	1700.8	1651.4	1622.0	1618.9	1598.8	1598.8	1605.0	1609.7	1598.8
7.5°	1880.0	1830.6	1720.9	1674.5	1648.3	1643.6	1629.7	1618.9	1632.8	1628.2	1615.8
10°	1961.9	1875.4	1759.5	1719.3	1676.1	1665.3	1665.3	1669.9	1646.7	1654.5	1642.1
12.5°	2053.0	1937.2	1808.9	1762.6	1711.6	1705.4	1702.3	1668.4	1680.7	1674.5	1643.6
15°	2168.9	2008.2	1872.3	1793.5	1750.2	1722.4	1682.3	1676.1	1668.4	1652.9	1639.0
17.5°	2294.0	2085.5	1901.6	1802.8	1737.9	1717.8	1686.9	1654.5	1631.3	1634.4	1623.6
20°	2400.6	2156.5	1912.4	1812.0	1728.6	1690.0	1642.1	1622.0	1597.3	1595.8	1594.2
22.5°	2527.3	2252.3	1927.9	1787.3	1700.8	1660.6	1628.2	1592.7	1575.7	1554.1	1564.9
25°	2678.7	2289.4	1931.0	1773.4	1680.7	1609.7	1592.7	1554.1	1547.9	1517.0	1523.2
27.5°	2788.3	2309.4	1906.3	1730.2	1634.4	1580.3	1549.4	1521.6	1510.8	1487.6	1481.4
30°	2935.1	2340.3	1853.7	1676.1	1588.0	1527.8	1509.3	1503.1	1472.2	1447.5	1444.4
32.5°	3101.9	2360.4	1819.8	1620.5	1540.1	1493.8	1503.1	1473.7	1435.1	1413.5	1407.3
35°	3234.8	2368.2	1734.8	1557.1	1507.7	1478.4	1467.5	1461.4	1405.8	1385.7	1370.2
37.5°	3437.1	2351.2	1663.7	1512.3	1472.2	1461.4	1452.1	1410.4	1347.0	1317.7	1296.1
40°	3673.5	2346.5	1572.6	1449.0	1438.2	1450.5	1422.7	1357.9	1269.8	1237.4	1221.9
42.5°	3900.6	2379.0	1515.4	1415.0	1401.1	1405.8	1367.1	1269.8	1226.6	1208.0	1183.3
45°	4280.6	2446.9	1421.2	1362.5	1356.3	1353.2	1306.9	1204.9	1180.2	1157.0	1152.4
47.5°	4623.5	2402.1	1361.0	1308.4	1314.6	1297.6	1198.8	1166.3	1138.5	1115.3	1107.6
50°	4643.6	2295.5	1276.0	1266.7	1268.3	1238.9	1144.7	1123.1	1087.5	1072.1	1061.3
52.5°	4538.6	2121.0	1197.2	1200.3	1204.9	1157.0	1078.3	1062.8	1033.5	1011.8	1005.7
55°	4243.5	1849.1	1120.0	1132.3	1144.7	1053.5	1028.8	990.2	967.0	936.1	937.7
57.5°	3738.4	1489.2	1011.8	1031.9	1058.2	957.8	939.2	891.3	857.4	832.6	829.5
60°	2505.6	1059.7	849.6	857.4	916.1	875.9	874.3	826.5	780.1	758.5	746.1
62.5°	1478.4	809.5	733.8	726.0	724.5	747.7	786.3	769.3	709.1	667.3	679.7
65°	773.9	699.8	682.8	656.5	641.1	634.9	664.3	672.0	631.8	587.0	583.9
67.5°	650.4	650.4	636.5	627.2	605.6	579.3	560.8	536.0	529.9	517.5	502.1
70°	591.7	607.1	602.5	580.8	562.3	532.9	485.1	444.9	406.3	392.4	401.6
72.5°	516.0	531.4	531.4	520.6	495.9	451.1	404.7	358.4	325.9	301.2	298.1
75°	397.0	404.7	423.3	410.9	378.5	350.7	302.8	254.9	224.0	200.8	196.2
77.5°	253.3	265.7	265.7	264.2	241.0	214.7	183.8	149.8	126.7	109.7	105.0
80°	168.4	176.1	182.3	176.1	160.7	140.6	117.4	94.2	77.2	63.3	60.2
82.5°	123.6	132.9	137.5	131.3	115.9	100.4	83.4	66.4	49.4	38.6	35.5
85°	47.9	49.4	55.6	66.4	64.9	63.3	51.0	37.1	27.8	20.1	18.5
87.5°	12.4	10.8	12.4	12.4	10.8	9.3	9.3	9.3	9.3	4.6	6.2
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)