

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: P458653

Luminaire Tested: **GALN-SA2A-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8767 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

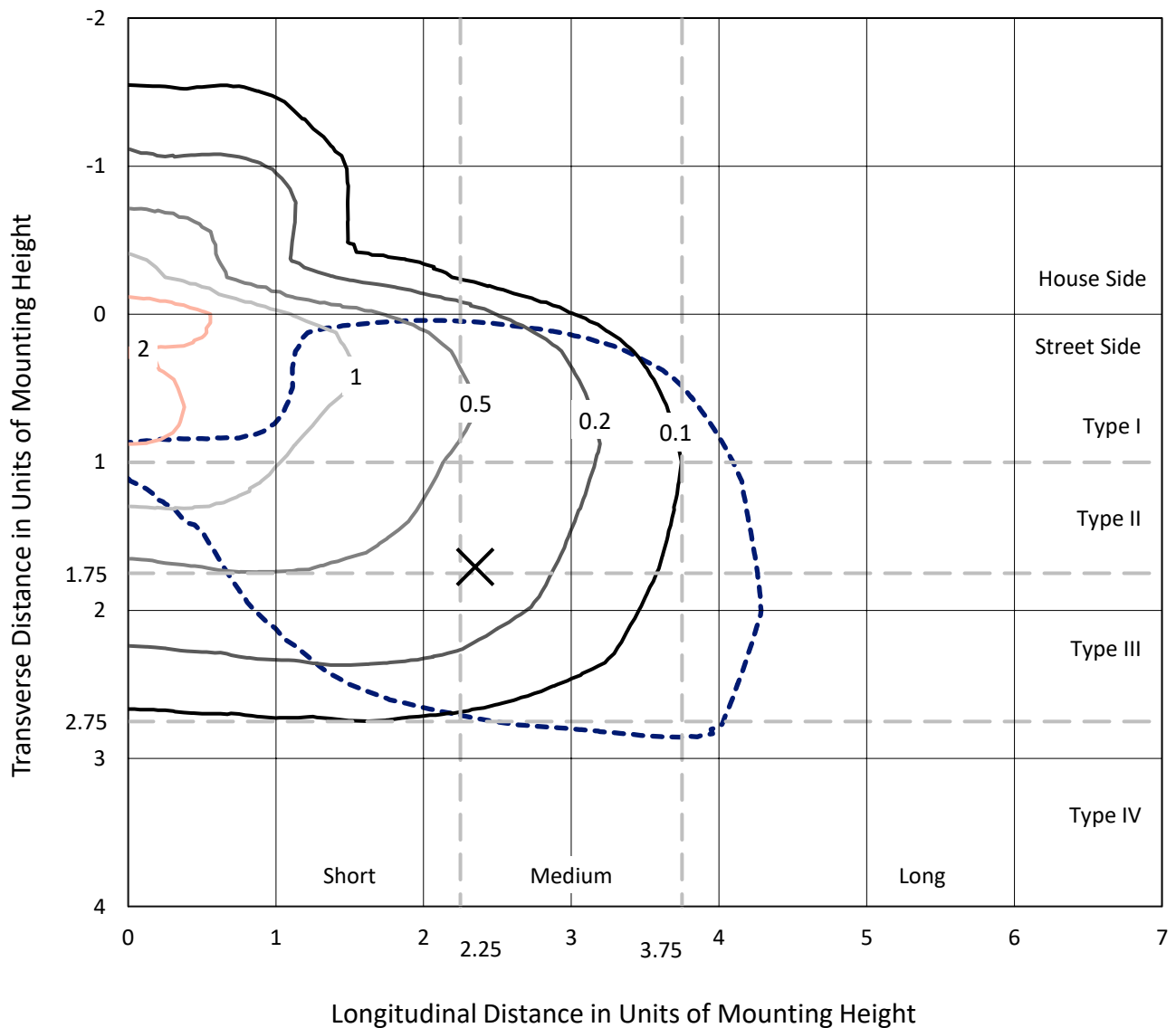
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

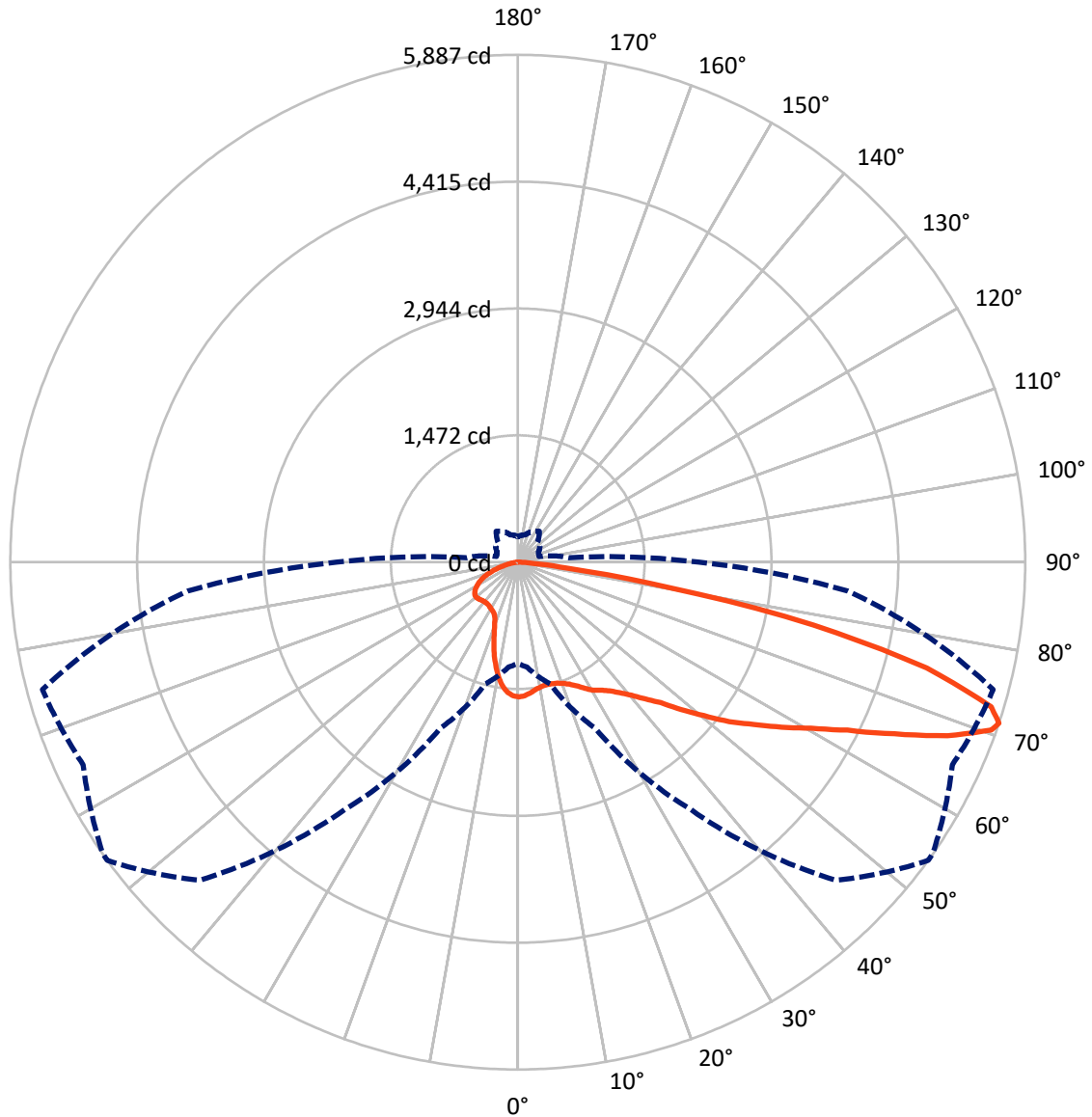
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1582.8	0.0	1582.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7184.2	0.0	7184.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	8767.0	0.0	8767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.6
10°-20°	368.1	4.2
20°-30°	612.8	7.0
30°-40°	906.2	10.3
40°-50°	1276.4	14.6
50°-60°	1709.1	19.5
60°-70°	2154.2	24.6
70°-80°	1471.3	16.8
80°-90°	129.4	1.5
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°	8767.0	100.0
0°-180°	8767.0	100.0

Coefficient of Utilization



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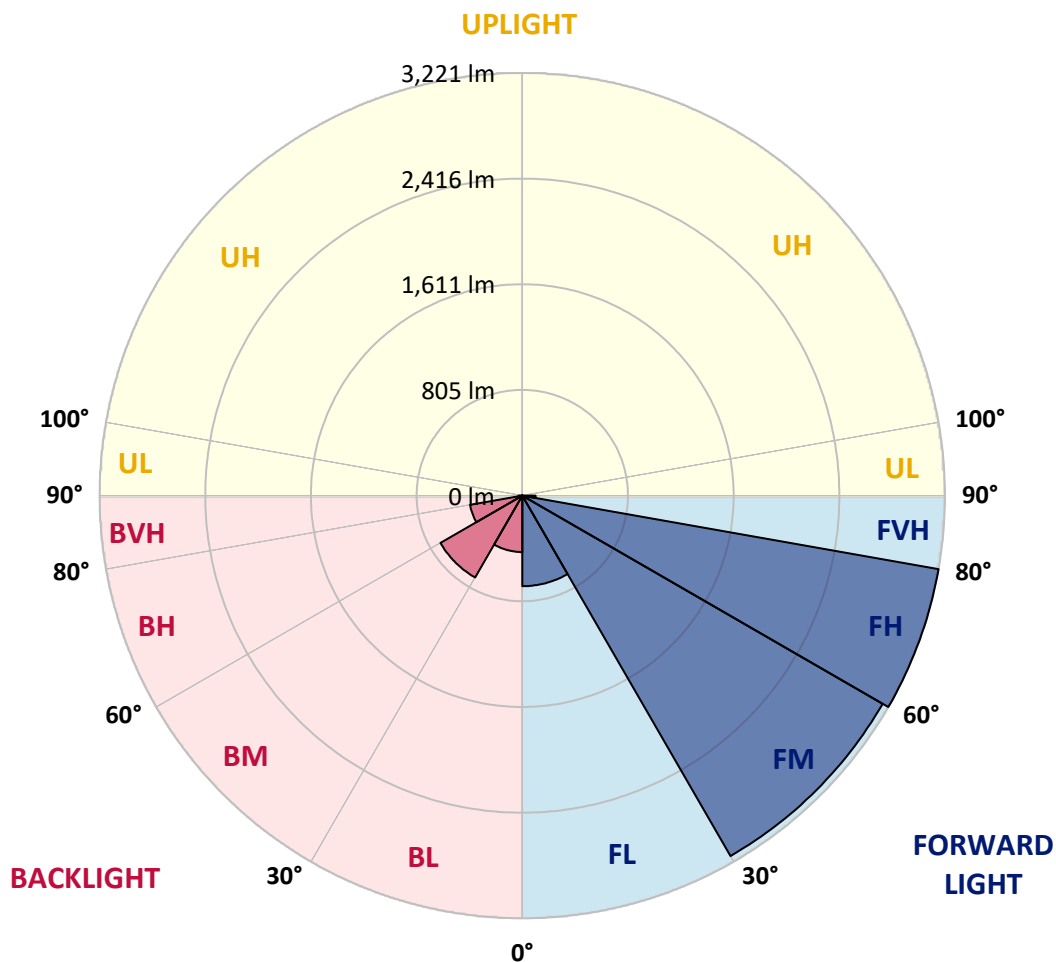
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.1	7.9			
FM (30°-60°)	3171.6	36.2			
FH (60°-80°)	3221.3	36.7			G2/5000
FVH (80°-90°)	101.1	1.2			G2/225
BL (0°-30°)	430.2	4.9	B1/500		
BM (30°-60°)	720.1	8.2	B1/1000		
BH (60°-80°)	404.2	4.6	B1/500		G1/500
BVH (80°-90°)	28.3	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2
2.5°	1511.1	1518.2	1520.1	1524.9	1534.8	1542.9	1550.9	1550.0	1561.3	1566.1	1570.3
5°	1443.9	1445.8	1452.9	1462.3	1479.9	1502.1	1523.9	1524.4	1552.3	1574.6	1585.5
7.5°	1394.6	1400.8	1405.5	1415.5	1433.9	1458.1	1492.7	1495.5	1545.2	1589.3	1612.5
10°	1362.4	1369.5	1374.7	1387.1	1405.5	1432.5	1469.9	1475.1	1540.0	1612.5	1653.2
12.5°	1333.1	1340.2	1344.9	1361.0	1385.2	1418.3	1460.5	1466.6	1541.9	1639.5	1697.7
15°	1351.1	1356.7	1354.8	1359.6	1375.7	1413.6	1464.2	1470.4	1549.0	1665.5	1741.7
17.5°	1431.1	1435.8	1420.2	1402.2	1394.6	1422.6	1476.1	1482.7	1563.2	1692.5	1786.7
20°	1549.0	1561.8	1527.7	1487.4	1451.0	1454.8	1500.7	1507.8	1583.1	1719.5	1832.7
22.5°	1702.4	1711.9	1670.2	1603.9	1536.7	1502.1	1537.6	1541.9	1612.9	1754.5	1882.9
25°	1882.9	1888.5	1830.8	1745.5	1648.5	1583.1	1588.3	1595.9	1662.2	1794.3	1927.4
27.5°	2058.1	2076.1	2009.3	1905.1	1777.3	1668.3	1657.9	1662.7	1715.7	1816.6	1958.2
30°	2266.0	2264.6	2194.0	2073.2	1909.4	1761.2	1723.8	1722.8	1744.6	1827.5	1980.4
32.5°	2431.7	2451.1	2382.0	2250.3	2060.5	1857.3	1769.2	1767.3	1766.8	1846.4	2013.6
35°	2620.2	2623.0	2559.6	2427.0	2223.8	1978.1	1832.7	1823.2	1812.3	1887.1	2058.6
37.5°	2788.8	2802.0	2743.8	2595.1	2384.4	2103.5	1919.8	1913.6	1880.5	1957.7	2130.5
40°	2920.4	2930.4	2895.3	2753.7	2542.5	2239.0	2030.6	2019.3	1979.0	2073.2	2226.7
42.5°	2963.5	2983.9	2997.6	2928.0	2724.4	2399.5	2167.0	2152.8	2122.0	2248.5	2337.5
45°	2966.8	2999.0	3071.5	3074.8	2907.2	2591.8	2326.1	2316.2	2313.8	2472.9	2493.3
47.5°	2941.7	2974.4	3096.1	3161.9	3070.1	2785.9	2555.8	2540.2	2541.6	2750.4	2668.0
50°	2881.1	2920.0	3067.7	3217.8	3197.5	2987.7	2798.3	2793.0	2822.4	3067.2	2849.4
52.5°	2767.0	2813.9	3038.3	3252.9	3292.2	3161.5	3073.9	3059.2	3133.5	3411.0	3047.8
55°	2451.1	2521.7	2930.9	3272.3	3382.2	3327.7	3322.0	3348.5	3447.0	3786.1	3266.1
57.5°	2286.3	2339.4	2697.4	3275.6	3495.8	3520.9	3611.8	3618.5	3790.8	4184.4	3512.9
60°	2196.4	2243.2	2569.5	3253.8	3654.4	3760.1	3908.3	3932.0	4126.6	4615.8	3768.6
62.5°	2117.8	2158.0	2492.8	3178.5	3833.5	4114.7	4292.3	4303.7	4507.8	5092.2	4021.0
65°	1932.6	1978.5	2338.4	3103.2	3987.8	4558.0	4801.9	4788.6	4913.6	5503.2	4179.2
67.5°	1683.0	1741.3	2050.0	2843.2	4064.1	5042.4	5375.8	5359.3	5314.3	5772.7	4224.6
70°	1364.3	1395.6	1681.1	2393.8	3759.6	5296.7	5829.0	5811.5	5562.4	5808.2	4009.6
71°	1174.0	1222.7	1463.8	2126.3	3506.2	5219.1	5887.3	5882.5	5562.9	5710.2	3847.7
72.5°	916.3	946.2	1159.3	1647.5	2980.1	4777.7	5743.3	5761.3	5442.1	5437.9	3513.8
75°	579.6	592.9	727.4	969.8	1635.2	3383.6	4902.7	4951.5	4832.2	4451.0	2613.1
77.5°	336.7	353.7	435.7	571.6	706.5	1836.5	3508.1	3561.2	3357.5	2450.7	1069.8
80°	196.1	215.0	287.0	332.0	324.4	681.5	1786.3	1876.7	1453.8	618.9	300.2
82.5°	108.9	121.7	201.7	202.2	172.8	222.6	562.1	588.2	414.8	249.6	122.7
85°	79.1	89.5	130.2	117.9	82.9	95.7	195.6	205.1	167.6	105.1	39.8
87.5°	27.9	39.8	71.5	56.8	22.7	19.9	56.4	45.9	42.6	29.4	9.0
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°	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2	1564.2
2.5°	1572.7	1573.6	1568.9	1560.4	1551.9	1541.0	1528.6	1519.2	1514.9	1514.4	1514.0
5°	1589.7	1592.1	1574.1	1547.6	1518.2	1482.2	1451.5	1416.4	1407.4	1393.2	1397.5
7.5°	1617.2	1615.8	1580.3	1523.9	1455.2	1379.0	1314.6	1277.2	1238.4	1227.5	1227.9
10°	1656.5	1647.5	1580.3	1475.6	1361.0	1247.8	1157.8	1101.0	1070.2	1044.7	1035.2
12.5°	1698.2	1675.4	1565.1	1407.9	1239.8	1101.0	1004.4	927.7	907.8	887.0	887.4
15°	1738.0	1700.1	1535.3	1312.7	1109.1	944.3	850.5	804.6	798.4	800.8	800.3
17.5°	1773.9	1717.6	1489.8	1206.6	956.6	809.8	760.1	763.4	780.0	791.8	793.2
20°	1810.4	1728.0	1422.1	1064.6	812.6	728.3	730.2	756.3	781.4	797.5	799.8
22.5°	1845.0	1732.7	1342.5	927.2	708.4	693.8	721.7	749.6	774.3	789.9	792.3
25°	1867.7	1721.9	1229.8	783.7	657.3	681.5	710.8	734.5	755.3	771.4	775.2
27.5°	1873.9	1686.8	1090.1	667.7	633.6	669.6	696.6	714.1	730.2	745.4	748.2
30°	1870.6	1635.2	936.7	599.5	619.9	655.9	676.7	689.5	708.9	720.8	723.1
32.5°	1865.3	1575.1	776.6	563.1	608.5	643.1	655.4	666.8	666.3	661.6	664.9
35°	1867.2	1503.1	646.9	541.3	598.6	633.6	644.0	629.8	589.1	587.2	585.3
37.5°	1877.2	1432.0	552.6	526.1	593.4	632.2	637.9	572.5	536.5	520.0	515.7
40°	1902.8	1349.2	490.6	514.8	592.9	643.1	609.9	543.6	474.5	442.3	439.9
42.5°	1936.9	1267.7	452.7	507.7	598.6	659.7	598.6	502.9	427.6	408.7	405.8
45°	1987.5	1174.4	431.9	504.3	607.1	665.8	594.8	473.1	408.7	393.5	393.5
47.5°	2044.8	1085.4	420.5	502.0	618.0	661.6	561.2	463.6	399.7	401.6	410.6
50°	2101.7	1008.2	412.0	496.8	627.5	659.2	547.4	463.1	402.1	426.2	442.3
52.5°	2167.5	953.7	401.6	488.2	627.5	644.0	543.2	472.6	408.7	415.8	422.9
55°	2247.0	936.7	388.3	469.8	616.1	606.2	540.8	486.3	413.4	396.8	399.7
57.5°	2352.2	964.2	375.5	446.6	590.1	566.8	539.9	490.1	402.5	388.8	385.9
60°	2474.3	1018.6	371.7	422.9	554.5	533.2	534.2	479.2	387.4	373.2	375.5
62.5°	2560.1	1051.3	369.4	404.9	515.7	496.3	520.4	466.0	380.7	368.4	370.8
65°	2560.1	1011.5	347.6	377.4	465.5	451.8	503.9	449.4	372.2	358.0	355.6
67.5°	2463.0	895.5	314.4	336.2	410.1	401.1	480.7	429.5	359.4	348.5	342.9
70°	2210.1	679.1	272.8	287.9	340.0	348.1	450.8	402.5	338.1	324.9	316.3
71°	2098.8	591.5	255.2	263.3	313.0	324.9	436.6	391.2	328.6	309.7	294.6
72.5°	1884.3	498.2	228.7	232.0	267.6	288.9	406.8	369.4	310.7	283.7	266.6
75°	1431.6	363.7	184.2	182.3	197.9	229.2	344.3	329.1	272.3	235.8	225.9
77.5°	618.5	197.9	137.8	139.2	134.5	173.8	270.9	282.7	233.5	191.8	182.8
80°	187.5	114.1	94.2	96.1	90.0	116.5	190.8	221.6	187.5	149.2	136.9
82.5°	96.1	68.2	64.4	63.5	57.3	65.8	115.5	151.5	134.0	93.3	82.4
85°	41.7	36.5	31.7	30.8	27.0	23.7	41.2	75.8	71.0	52.1	49.7
87.5°	10.4	9.5	6.2	5.7	3.3	0.5	0.0	0.0	0.0	0.0	0.0
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)