

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: LUMARK

Report Number: P963954

Luminaire Tested: **NAV-SB3B-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11910.5 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

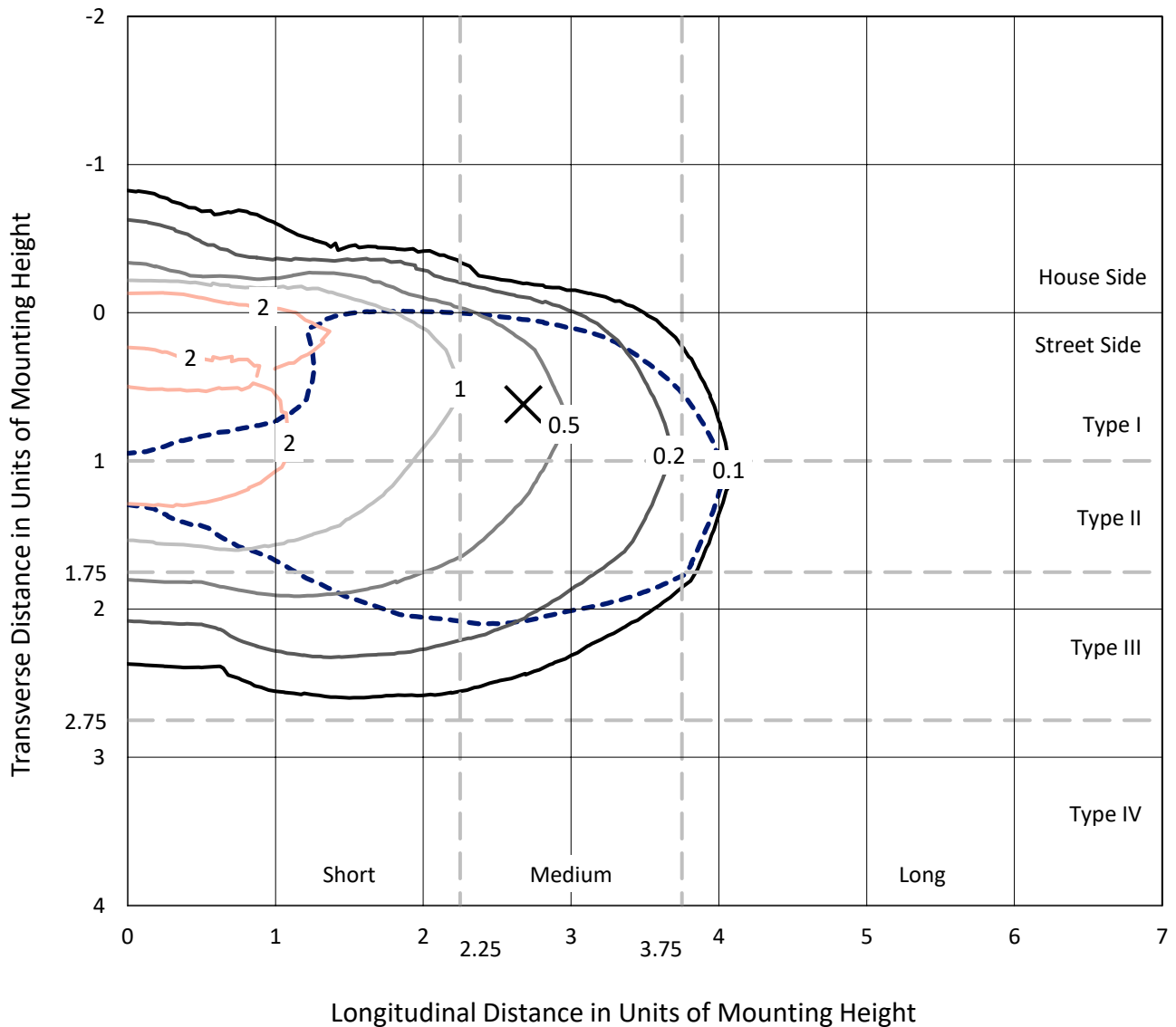
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

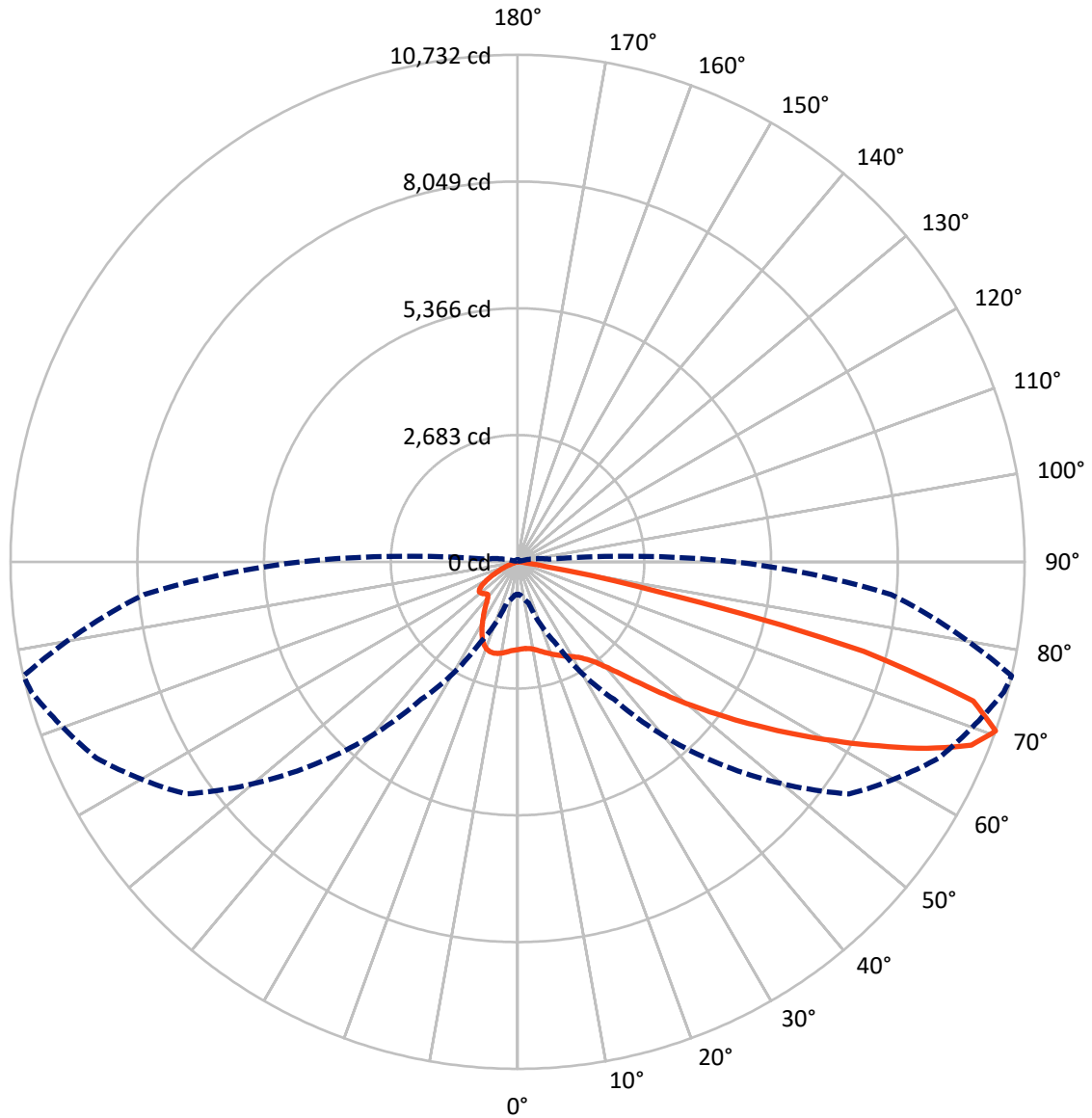
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.5	0.0	1255.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10655.0	0.0	10655.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	11910.5	0.0	11910.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.3
10°-20°	380.1	3.2
20°-30°	587.9	4.9
30°-40°	1066.8	9.0
40°-50°	2013.7	16.9
50°-60°	2909.6	24.4
60°-70°	3097.2	26.0
70°-80°	1641.3	13.8
80°-90°	53.9	0.5
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°	11910.5	100.0
0°-180°	11910.5	100.0

Coefficient of Utilization

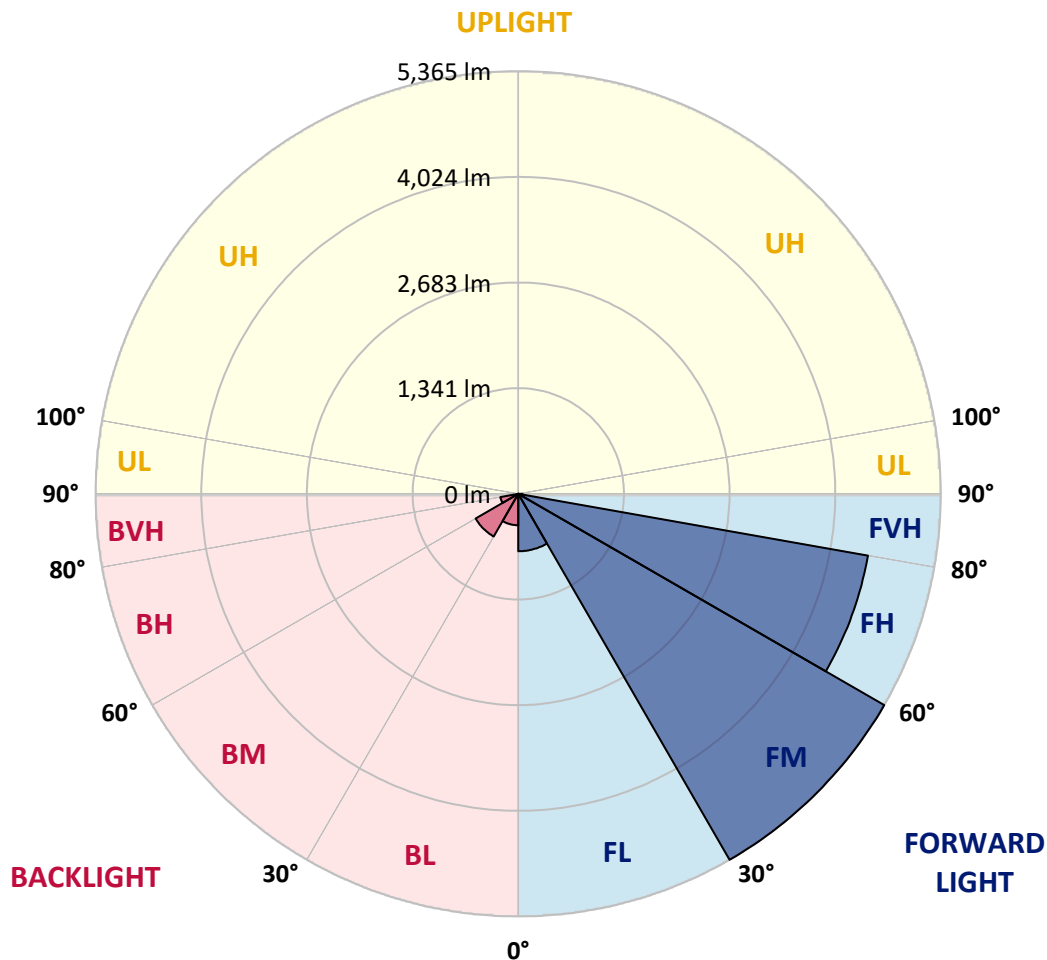


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	729.2	6.1			
FM (30°-60°)	5365.0	45.0			
FH (60°-80°)	4508.3	37.9			G2/5000
FVH (80°-90°)	52.4	0.4			G1/100
BL (0°-30°)	398.9	3.3	B1/500		
BM (30°-60°)	625.0	5.2	B1/1000		
BH (60°-80°)	230.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1744.2	1760.0	1757.8	1768.3	1772.1	1787.1	1802.2	1822.4	1845.0	1844.3	1859.4
5°	1645.7	1661.5	1665.3	1679.6	1697.6	1721.0	1751.7	1792.4	1834.5	1841.3	1871.3
7.5°	1529.1	1545.7	1555.4	1584.0	1617.1	1665.3	1715.6	1775.1	1845.0	1854.8	1912.8
10°	1412.6	1427.6	1440.3	1481.0	1533.6	1605.1	1687.0	1772.8	1866.8	1881.2	1963.1
12.5°	1340.3	1354.6	1368.9	1404.2	1469.7	1557.0	1668.3	1783.4	1902.9	1923.3	2031.5
15°	1314.8	1327.6	1338.9	1370.4	1431.3	1530.6	1664.5	1805.1	1948.8	1975.9	2114.3
17.5°	1318.6	1325.3	1332.8	1356.9	1416.3	1518.6	1671.3	1842.7	2003.0	2027.0	2197.1
20°	1340.3	1344.1	1344.9	1361.4	1414.1	1517.1	1684.8	1878.9	2054.1	2086.5	2279.0
22.5°	1368.2	1369.7	1368.2	1379.4	1428.3	1528.4	1702.8	1922.5	2111.3	2141.4	2361.8
25°	1498.2	1469.7	1433.6	1411.8	1452.4	1550.2	1730.0	1981.2	2173.7	2203.0	2442.3
27.5°	1902.2	1820.2	1690.8	1545.7	1502.0	1581.8	1767.6	2040.6	2237.0	2263.2	2528.8
30°	2558.1	2450.6	2230.9	1903.7	1661.5	1648.0	1816.5	2100.0	2303.9	2332.4	2621.2
32.5°	3215.4	3189.2	2935.7	2482.9	2020.3	1795.4	1897.7	2180.5	2392.6	2415.2	2746.1
35°	3880.3	3826.9	3619.4	3171.9	2573.2	2095.5	2033.1	2285.8	2509.2	2534.7	2928.1
37.5°	4389.6	4357.3	4228.6	3860.0	3229.0	2558.8	2264.7	2449.0	2678.4	2707.0	3161.3
40°	4839.3	4824.4	4780.7	4537.8	3962.3	3165.1	2625.0	2701.7	2913.0	2947.0	3447.2
42.5°	5192.9	5228.2	5253.0	5185.4	4718.3	3857.1	3109.4	3056.8	3240.3	3274.9	3811.2
45°	5554.7	5566.7	5666.7	5764.5	5468.9	4580.6	3655.5	3472.7	3647.2	3690.1	4247.4
47.5°	5787.0	5835.2	6011.2	6183.5	6100.0	5298.2	4242.2	3963.9	4118.8	4199.3	4736.3
50°	5804.4	5895.4	6137.6	6437.7	6559.6	5981.2	4880.0	4523.4	4688.1	4776.9	5258.4
52.5°	5516.3	5657.7	6033.0	6472.3	6807.7	6559.6	5539.6	5083.1	5294.4	5410.3	5799.9
55°	4229.4	4414.4	5639.7	6284.3	6817.6	6998.1	6182.0	5666.0	5969.8	6100.7	6385.0
57.5°	3684.8	3778.0	4433.9	5957.8	6636.3	7174.8	6762.6	6221.0	6704.7	6867.2	6937.9
60°	3065.8	3188.4	3718.7	5423.8	6390.3	7192.1	7275.6	6937.1	7501.3	7684.0	7444.8
62.5°	2083.5	2216.6	2743.8	4506.2	6054.1	7183.8	7696.0	7674.3	8386.6	8582.8	7874.4
65°	1290.7	1374.2	1721.7	3679.5	5584.0	7192.8	8136.0	8569.3	9320.7	9520.0	8206.8
67.5°	1019.9	1058.3	1239.5	2825.1	4773.9	6989.8	8575.4	9410.9	10200.0	10357.9	8308.3
70°	685.2	708.5	901.8	1893.9	3551.6	6052.6	8567.1	9833.6	10652.7	10731.7	7938.2
72.5°	361.0	379.0	527.3	877.0	2145.1	4302.3	7221.4	9328.2	10202.2	10083.4	6785.2
75°	180.5	210.6	355.1	445.3	916.1	2399.4	4484.4	7354.6	8030.1	7569.7	4353.5
77.5°	136.9	165.4	293.4	293.4	318.9	807.8	1899.2	4011.2	3699.8	3080.8	1277.9
80°	87.2	112.9	256.5	221.9	133.1	205.3	494.9	1123.7	786.0	598.0	232.4
82.5°	51.1	73.7	213.6	146.7	74.4	76.0	139.9	239.2	203.9	158.7	71.4
85°	20.3	48.2	146.7	57.9	29.3	18.8	42.1	51.1	42.1	31.6	18.0
87.5°	0.0	11.3	25.5	0.0	2.3	1.5	3.0	3.8	3.8	3.0	6.0
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°	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8	1857.8
2.5°	1866.1	1867.5	1872.2	1872.9	1862.3	1848.8	1843.6	1841.3	1832.3	1831.5	1833.0
5°	1888.7	1895.4	1888.7	1869.1	1822.4	1757.1	1707.3	1666.8	1630.0	1618.7	1611.9
7.5°	1933.8	1940.5	1920.2	1843.6	1726.2	1596.0	1478.8	1396.0	1321.5	1293.8	1282.4
10°	1998.4	2007.5	1943.6	1788.6	1581.1	1372.0	1173.3	1033.5	924.4	880.1	861.2
12.5°	2079.7	2083.5	1956.3	1705.1	1392.3	1093.7	812.3	662.7	565.6	529.5	518.2
15°	2169.2	2164.0	1957.9	1591.5	1135.0	773.3	530.2	435.5	396.4	384.4	384.4
17.5°	2263.2	2241.5	1927.8	1427.6	852.9	528.8	393.4	370.8	364.1	361.0	360.3
20°	2355.8	2306.9	1872.9	1213.2	612.2	394.9	357.3	350.5	346.8	345.2	343.8
22.5°	2440.0	2356.5	1778.9	964.2	444.5	349.0	337.7	331.7	324.9	322.0	321.1
25°	2522.0	2385.1	1646.5	731.8	355.8	326.5	317.4	306.2	297.1	293.4	291.8
27.5°	2601.7	2403.1	1481.0	541.5	317.4	305.3	288.8	273.1	266.3	264.8	263.2
30°	2686.7	2409.2	1292.9	404.0	294.1	279.0	255.0	237.0	233.2	233.9	233.9
32.5°	2790.5	2418.2	1103.4	331.0	274.5	247.4	218.8	200.1	197.1	200.1	199.4
35°	2914.6	2436.2	920.7	304.6	257.3	215.1	184.3	168.5	165.4	167.7	167.0
37.5°	3083.1	2465.5	749.9	299.4	242.9	188.1	155.0	142.2	142.2	142.9	142.2
40°	3307.3	2543.7	597.2	295.6	235.4	167.7	130.9	125.6	127.8	129.4	129.4
42.5°	3580.2	2710.0	494.2	291.1	227.1	158.7	118.8	116.5	120.3	121.9	121.9
45°	3886.4	2920.6	458.1	283.5	219.7	164.7	113.6	110.6	115.1	115.8	116.5
47.5°	4203.0	3126.7	453.6	275.3	212.1	173.7	112.0	105.3	110.6	111.3	112.0
50°	4523.4	3261.3	458.1	262.5	200.1	173.7	112.9	100.0	104.6	106.8	107.5
52.5°	4846.1	3323.0	455.1	234.6	179.0	163.2	112.9	95.5	100.0	101.6	101.6
55°	5159.0	3311.0	409.2	193.3	151.9	144.4	109.8	91.7	94.8	95.5	95.5
57.5°	5406.5	3143.3	324.2	150.5	123.3	120.3	100.0	87.2	89.5	88.8	88.8
60°	5535.8	2774.7	231.6	115.8	97.1	94.8	88.0	81.3	82.7	79.0	78.2
62.5°	5537.4	2287.3	155.0	91.7	77.5	75.2	75.2	73.0	71.4	64.0	61.7
65°	5419.3	1746.5	103.0	73.0	62.4	58.6	63.1	62.4	57.2	46.6	45.1
67.5°	5151.5	1144.8	78.2	57.2	48.2	45.9	50.4	52.7	48.9	39.2	38.3
70°	4600.9	666.5	64.7	44.4	36.1	33.8	40.6	45.1	40.6	31.6	30.1
72.5°	3821.7	359.6	52.7	33.1	24.8	22.5	32.4	36.9	32.4	23.3	22.5
75°	2479.9	192.6	40.6	21.8	12.8	14.2	24.1	27.1	22.5	15.1	13.5
77.5°	832.6	85.0	25.5	10.6	6.0	6.0	14.2	16.5	10.6	5.2	4.5
80°	185.8	35.4	10.6	4.5	2.3	2.3	3.0	3.0	1.5	0.0	0.0
82.5°	60.9	14.2	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.3	5.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	0.7	0.0	0.0	0.0	0.0	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)