

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: P963947

Luminaire Tested: **NAV-SB3B-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10446.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

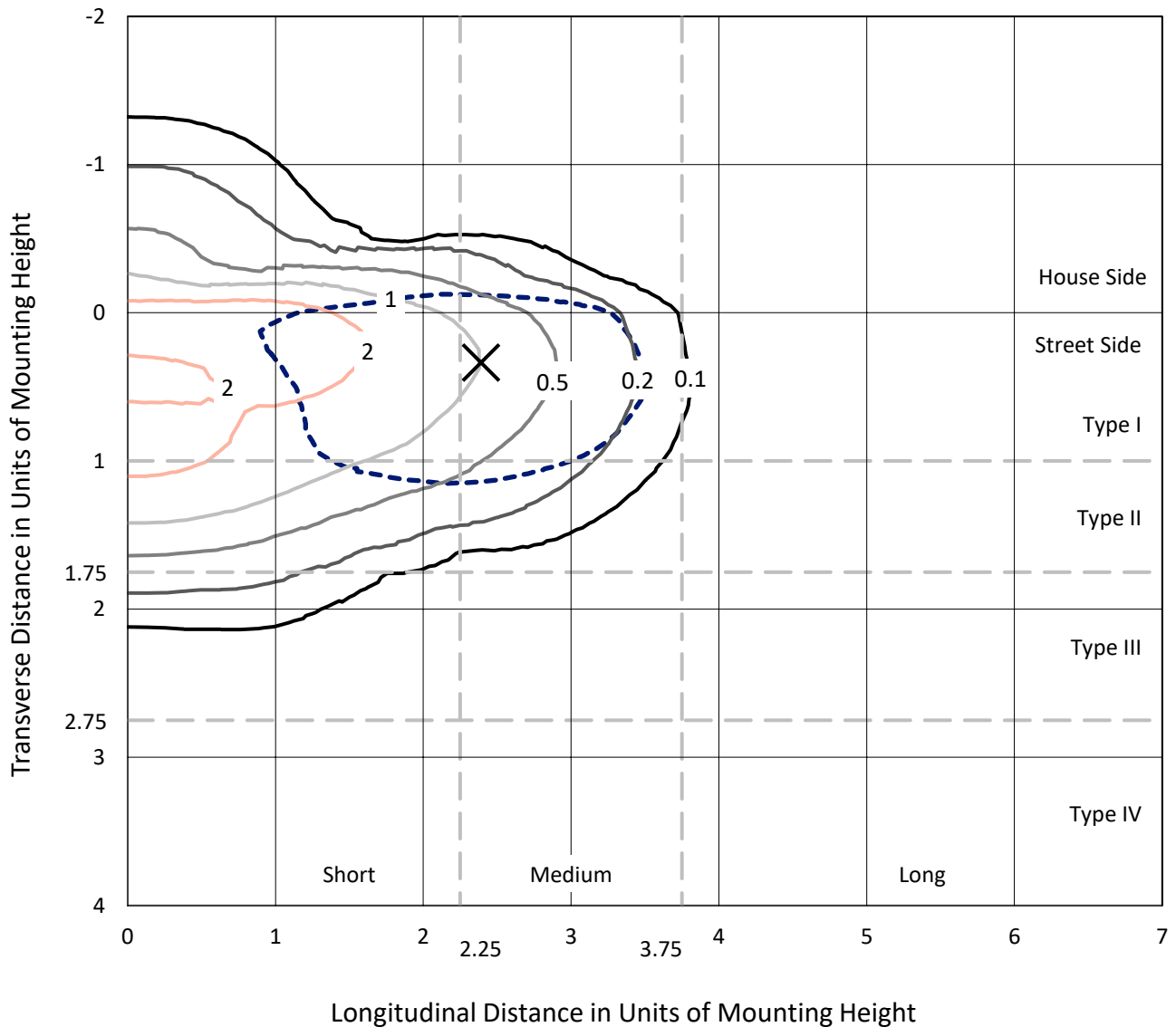
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P963947
 CATALOG NUMBER: NAV-SB3B-722-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

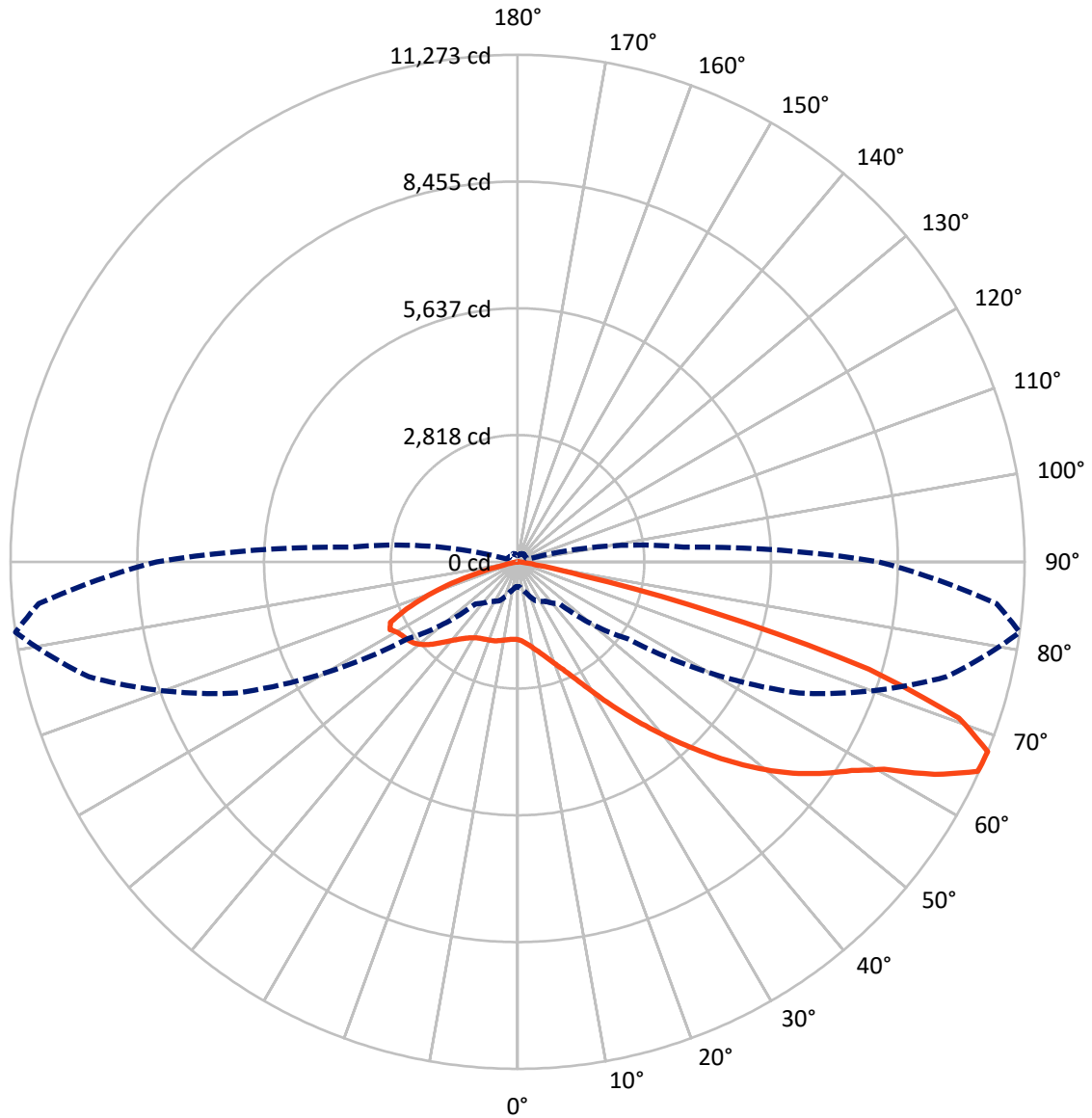
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P963947
CATALOG NUMBER: NAV-SB3B-722-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P963947
 CATALOG NUMBER: NAV-SB3B-722-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.3	0.0	1892.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8554.5	0.0	8554.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	10446.8	0.0	10446.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.5
10°-20°	400.7	3.8
20°-30°	641.8	6.1
30°-40°	1134.8	10.9
40°-50°	1988.3	19.0
50°-60°	2651.9	25.4
60°-70°	2468.8	23.6
70°-80°	947.5	9.1
80°-90°	58.9	0.6
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°	10446.8	100.0
0°-180°	10446.8	100.0

Coefficient of Utilization

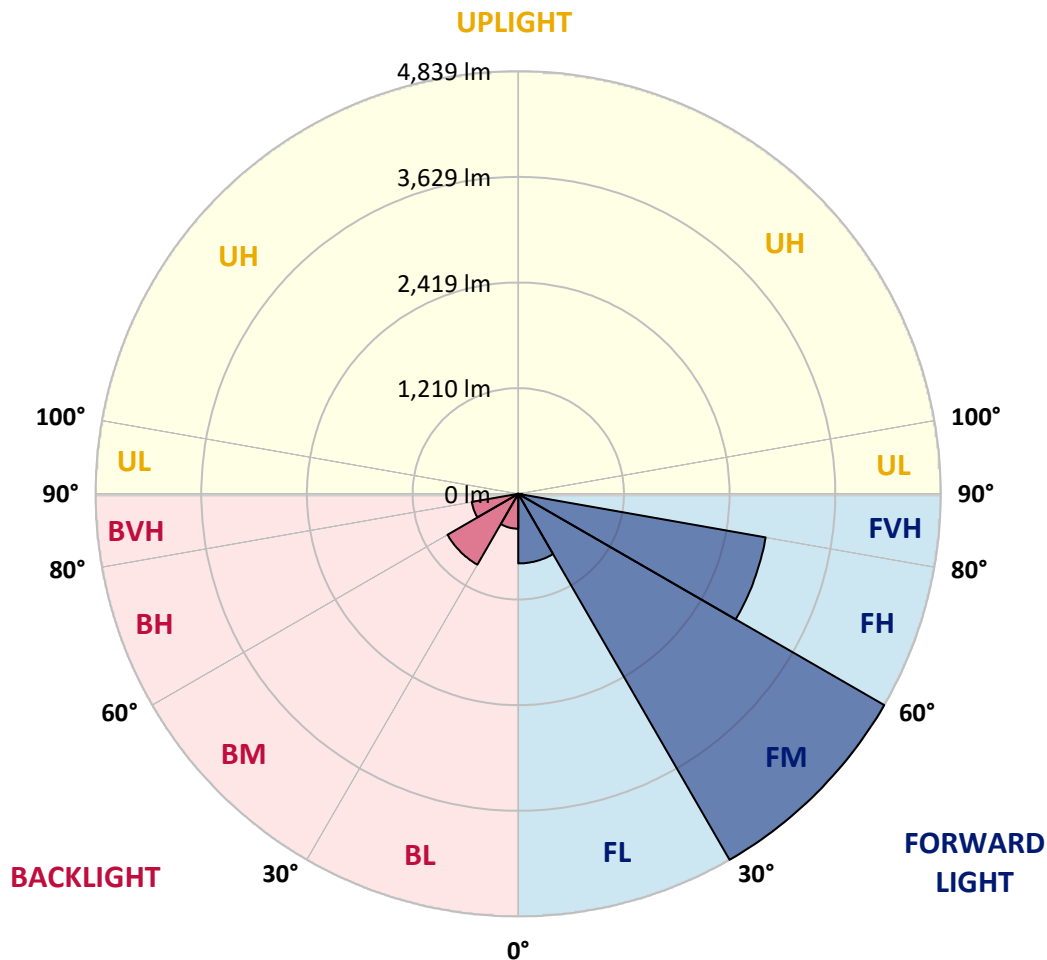


REPORT NUMBER: P963947
 CATALOG NUMBER: NAV-SB3B-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.0	7.6			
FM (30°-60°)	4838.5	46.3			
FH (60°-80°)	2876.2	27.5			G2/5000
FVH (80°-90°)	42.8	0.4			G1/100
BL (0°-30°)	399.7	3.8	B1/500		
BM (30°-60°)	936.5	9.0	B1/1000		
BH (60°-80°)	540.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	16.1	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 Medium



REPORT NUMBER: P963947
 CATALOG NUMBER: NAV-SB3B-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7
2.5°	1829.2	1839.8	1833.7	1830.8	1825.4	1817.9	1811.9	1793.1	1773.6	1760.7	1756.2
5°	1866.1	1876.6	1875.9	1878.8	1882.6	1884.9	1883.3	1862.3	1834.4	1812.7	1799.9
7.5°	1834.4	1846.5	1856.3	1871.3	1897.7	1925.5	1939.0	1934.5	1905.9	1875.9	1860.1
10°	1745.0	1757.8	1781.0	1816.4	1872.1	1932.2	1982.7	2005.9	1987.9	1954.8	1933.0
12.5°	1581.0	1593.8	1639.7	1716.4	1809.6	1914.2	2010.4	2072.9	2077.5	2044.4	2018.7
15°	1396.8	1409.5	1458.4	1554.7	1696.8	1864.6	2025.5	2143.6	2183.5	2154.9	2124.0
17.5°	1282.4	1293.7	1330.6	1408.0	1556.2	1765.3	2020.3	2218.8	2309.8	2287.3	2250.4
20°	1247.8	1257.6	1274.9	1329.0	1452.4	1662.2	1985.6	2289.5	2446.0	2433.1	2391.8
22.5°	1284.6	1293.7	1299.0	1323.1	1400.5	1594.6	1942.1	2361.7	2603.9	2605.4	2555.0
25°	1369.6	1378.7	1372.7	1387.7	1421.6	1573.5	1925.5	2446.7	2802.5	2819.1	2761.9
27.5°	1509.5	1510.3	1496.0	1495.3	1500.5	1605.0	1942.8	2537.7	3053.0	3083.8	3013.1
30°	1790.1	1778.8	1723.9	1664.5	1637.4	1699.9	1991.0	2645.3	3348.6	3403.4	3314.6
32.5°	2222.6	2206.0	2105.2	1963.1	1820.2	1852.5	2077.5	2767.9	3670.4	3769.7	3661.4
35°	2692.0	2687.4	2582.1	2370.7	2121.0	2069.9	2218.1	2928.8	4021.7	4179.6	4051.0
37.5°	3128.2	3125.9	3065.8	2816.8	2512.9	2373.0	2443.7	3139.5	4397.8	4626.4	4474.5
40°	3526.8	3533.6	3473.4	3250.8	2944.6	2761.9	2750.6	3399.7	4816.0	5113.1	4932.5
42.5°	3871.3	3878.8	3817.9	3653.2	3371.1	3192.1	3127.4	3718.6	5224.4	5635.8	5422.2
45°	4105.2	4151.9	4142.8	4011.1	3808.9	3623.1	3580.2	4118.8	5690.0	6190.2	5939.7
47.5°	4171.3	4214.3	4281.9	4300.0	4176.7	3993.9	4045.1	4600.8	6160.8	6745.2	6460.2
50°	4008.2	4048.0	4188.7	4375.9	4461.7	4405.3	4497.1	5117.6	6642.9	7298.8	6970.8
52.5°	3686.2	3726.9	3904.3	4200.8	4550.5	4728.0	4950.6	5626.7	7110.0	7823.0	7454.5
55°	3220.7	3263.6	3491.5	3826.9	4381.3	4861.1	5329.0	6135.2	7538.0	8294.6	7890.8
57.5°	2587.4	2619.0	2855.9	3325.2	3955.5	4728.7	5608.0	6690.3	7941.1	8757.9	8323.2
60°	1686.3	1714.1	1989.4	2512.9	3250.0	4286.4	5663.6	7309.4	8476.6	9360.4	8906.1
62.5°	1121.5	1140.2	1303.5	1687.8	2288.7	3437.3	5338.0	7803.5	9261.9	10408.9	9905.7
65°	769.5	788.2	951.5	1219.2	1478.7	2273.8	4401.6	7738.0	9973.5	11241.5	10646.6
67.5°	549.1	564.9	703.3	956.0	1070.3	1320.7	2983.8	6901.6	9871.2	11273.2	10686.4
70°	393.4	402.4	516.7	744.7	850.6	793.6	1659.3	5278.5	8642.9	10409.7	9872.6
72.5°	275.3	278.3	358.7	567.1	685.2	579.1	789.8	3519.2	6536.8	8170.5	7653.8
75°	186.5	190.3	241.4	415.9	549.8	442.3	418.2	1887.1	3837.4	4522.6	4054.1
77.5°	114.3	115.8	155.7	284.3	411.4	336.9	269.3	799.5	1484.7	1457.7	1242.5
80°	64.7	64.7	99.3	176.7	280.5	217.4	188.8	340.0	470.1	413.0	364.1
82.5°	36.1	36.9	72.2	109.8	185.7	128.6	103.8	157.2	203.1	179.8	156.4
85°	15.1	16.5	44.4	51.9	88.8	64.0	42.1	66.2	75.2	66.9	48.9
87.5°	1.5	2.3	13.5	9.7	10.6	12.8	6.0	12.8	10.6	10.6	7.5
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: P963947
 CATALOG NUMBER: NAV-SB3B-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7
2.5°	1742.0	1730.7	1702.1	1669.0	1625.3	1604.3	1575.7	1556.2	1539.7	1541.2	1526.1
5°	1775.8	1747.2	1683.3	1603.6	1504.3	1433.6	1358.3	1306.5	1264.3	1255.3	1235.0
7.5°	1822.4	1777.4	1665.2	1521.6	1353.8	1226.7	1113.1	1040.2	988.3	971.8	955.2
10°	1882.6	1817.2	1641.9	1418.5	1177.1	1015.4	893.6	836.4	801.0	789.0	779.9
12.5°	1952.5	1863.0	1611.1	1292.9	995.1	839.4	761.9	733.4	722.0	718.3	716.1
15°	2040.6	1920.2	1564.5	1144.0	840.9	731.8	698.7	694.9	696.5	694.9	694.2
17.5°	2145.1	1982.7	1488.5	990.6	737.1	676.9	664.9	667.9	671.7	670.9	669.4
20°	2259.4	2044.4	1391.4	854.4	666.4	637.9	631.1	634.1	637.0	635.6	634.8
22.5°	2389.6	2110.5	1283.9	748.4	619.0	601.7	594.2	594.9	594.9	591.9	590.4
25°	2545.3	2183.5	1171.1	673.1	582.9	569.4	560.4	557.3	552.8	543.8	542.3
27.5°	2731.0	2260.9	1062.8	620.5	554.3	541.5	531.1	523.5	512.2	497.1	495.7
30°	2940.1	2354.9	971.0	587.4	531.8	519.0	507.0	495.7	479.1	460.3	458.8
32.5°	3186.1	2455.8	904.0	565.6	511.5	497.9	483.6	470.1	452.0	433.3	434.0
35°	3479.5	2577.6	865.0	550.5	495.7	477.6	461.9	446.8	433.3	416.7	415.2
37.5°	3797.5	2706.9	852.9	543.0	485.1	457.3	439.2	428.8	427.2	417.5	416.7
40°	4145.8	2860.4	861.9	538.5	473.9	437.8	418.2	415.9	419.7	402.4	403.1
42.5°	4514.4	3042.4	877.0	533.3	458.1	418.2	399.3	399.3	396.4	372.3	372.3
45°	4913.0	3252.2	892.1	520.5	439.2	398.6	384.4	379.0	366.3	343.0	342.2
47.5°	5314.6	3465.8	903.3	497.1	416.7	382.1	369.3	357.3	338.5	317.4	316.6
50°	5696.0	3657.7	891.3	462.6	391.1	366.3	352.8	336.2	315.9	301.7	299.4
52.5°	6036.7	3823.9	840.2	422.0	364.1	349.7	337.7	320.4	303.9	288.8	287.3
55°	6333.1	3958.6	749.9	383.6	340.0	335.5	323.4	301.7	279.0	266.3	264.8
57.5°	6617.4	4060.8	637.0	352.0	318.2	319.7	301.7	282.1	261.0	247.4	246.0
60°	6995.7	4197.7	522.8	322.7	294.8	299.4	279.8	265.5	239.1	221.9	219.7
62.5°	7600.4	4410.6	415.2	286.6	267.7	269.3	261.0	243.7	212.1	191.8	190.3
65°	8080.3	4332.4	327.2	247.4	236.9	239.1	239.1	220.4	186.5	163.2	160.9
67.5°	8026.2	3709.6	261.0	209.1	207.6	209.1	214.3	198.5	165.4	146.7	143.7
70°	7393.5	2950.7	209.1	173.7	180.5	176.7	191.8	181.2	148.9	130.1	127.8
72.5°	6032.9	2125.5	159.5	143.7	138.4	144.4	173.0	163.2	124.1	103.0	100.8
75°	3525.3	1134.3	118.8	113.6	100.0	120.3	153.4	139.2	94.8	76.0	73.7
77.5°	1147.8	395.6	87.2	83.5	74.4	97.1	130.9	117.4	77.5	60.2	57.9
80°	307.6	119.6	59.4	54.9	48.2	72.2	103.8	93.3	55.7	39.2	38.3
82.5°	123.3	50.4	34.6	30.9	26.3	49.6	82.0	75.2	41.4	24.8	24.8
85°	39.9	16.5	12.8	9.7	12.0	30.9	48.9	51.1	29.3	12.8	9.7
87.5°	5.2	2.3	2.3	3.0	2.3	5.2	15.1	14.2	8.3	1.5	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)