

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: P961901

Luminaire Tested: **NAV-SB2B-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961901
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-SB2B-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 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: 8428.6 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

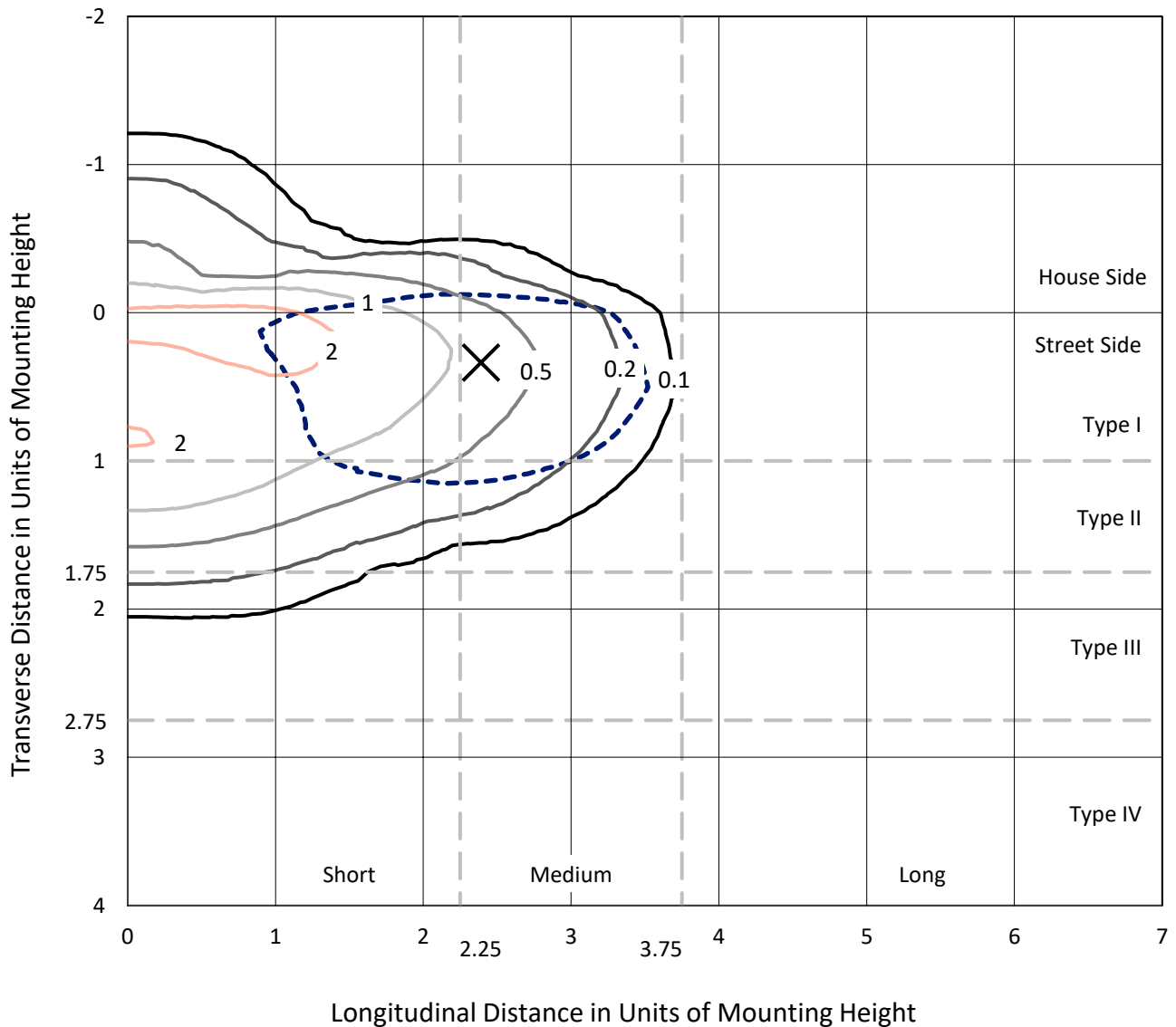
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

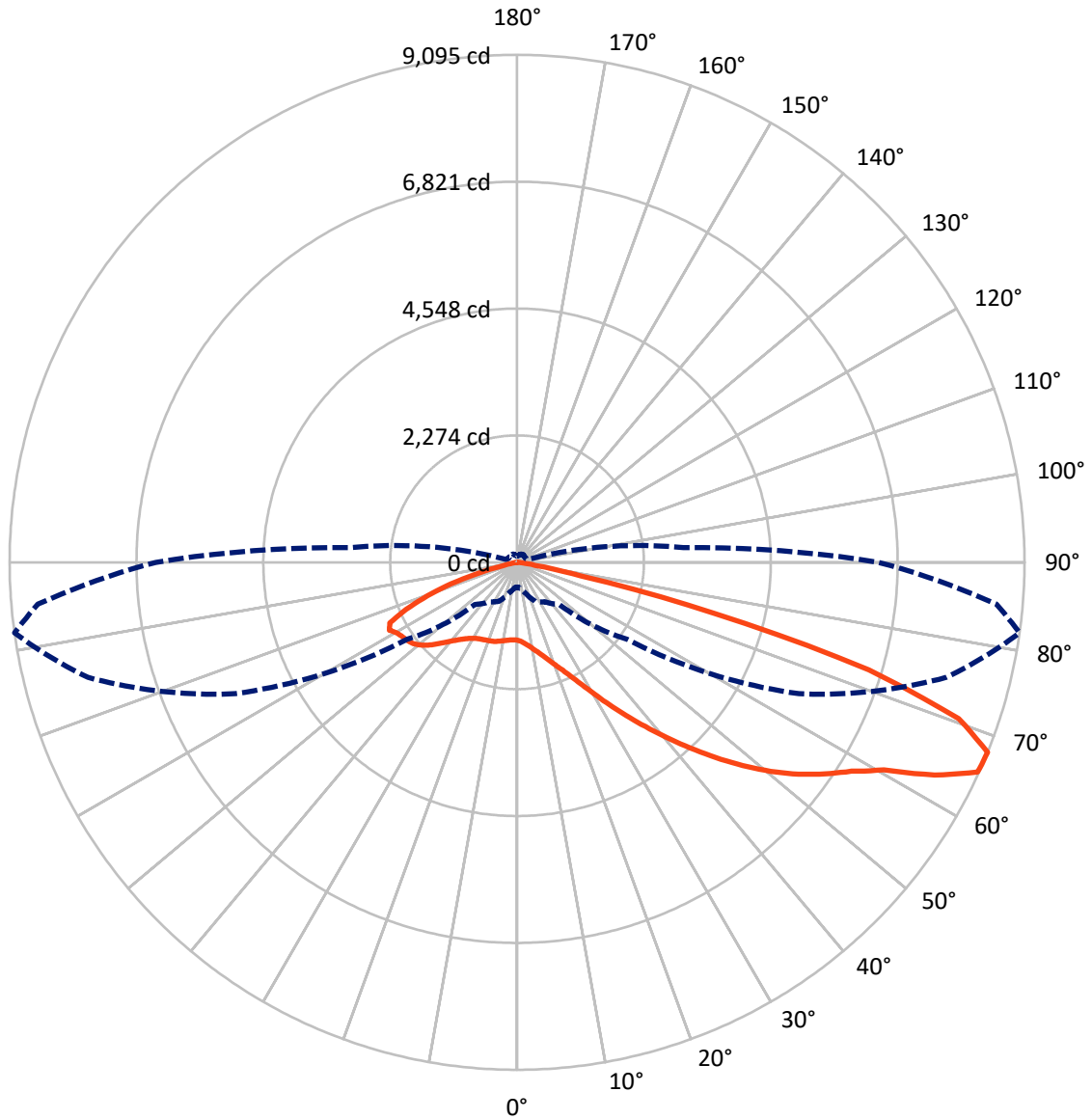
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1526.8	0.0	1526.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6901.8	0.0	6901.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	8428.6	0.0	8428.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.5
10°-20°	323.3	3.8
20°-30°	517.8	6.1
30°-40°	915.6	10.9
40°-50°	1604.2	19.0
50°-60°	2139.6	25.4
60°-70°	1991.8	23.6
70°-80°	764.5	9.1
80°-90°	47.5	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°	8428.6	100.0
0°-180°	8428.6	100.0

Coefficient of Utilization

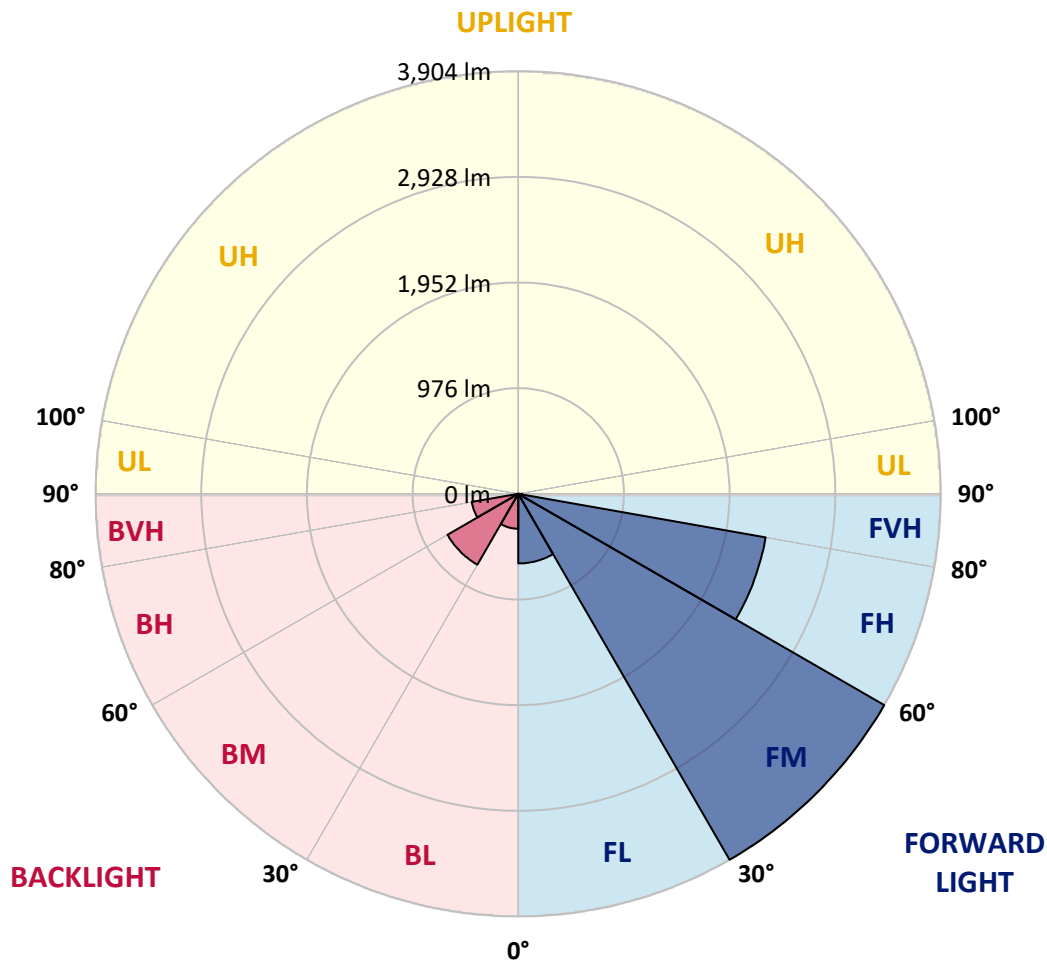


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.0	7.6			
FM (30°-60°)	3903.8	46.3			
FH (60°-80°)	2320.5	27.5			G2/5000
FVH (80°-90°)	34.5	0.4			G1/100
BL (0°-30°)	322.4	3.8	B1/500		
BM (30°-60°)	755.6	9.0	B1/1000		
BH (60°-80°)	435.8	5.2	B1/500		G1/500
BVH (80°-90°)	13.0	0.2			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4
2.5°	1475.8	1484.3	1479.5	1477.0	1472.8	1466.7	1461.9	1446.7	1430.9	1420.6	1417.0
5°	1505.5	1514.0	1513.4	1515.9	1518.9	1520.7	1519.6	1502.5	1480.1	1462.5	1452.1
7.5°	1480.1	1489.7	1497.6	1509.8	1531.0	1553.5	1564.5	1560.8	1537.7	1513.4	1500.7
10°	1407.8	1418.2	1436.9	1465.5	1510.4	1558.9	1599.6	1618.5	1603.8	1577.2	1559.5
12.5°	1275.6	1285.9	1322.9	1384.8	1460.0	1544.4	1622.1	1672.4	1676.1	1649.4	1628.7
15°	1126.9	1137.2	1176.7	1254.3	1369.0	1504.4	1634.3	1729.5	1761.7	1738.6	1713.7
17.5°	1034.6	1043.8	1073.5	1136.0	1255.5	1424.2	1630.0	1790.2	1863.6	1845.4	1815.7
20°	1006.8	1014.6	1028.6	1072.3	1171.8	1341.1	1602.1	1847.3	1973.4	1963.1	1929.8
22.5°	1036.5	1043.8	1048.0	1067.4	1130.0	1286.5	1566.8	1905.5	2100.8	2102.1	2061.4
25°	1105.1	1112.3	1107.5	1119.6	1146.9	1269.5	1553.5	1974.0	2261.0	2274.4	2228.4
27.5°	1217.9	1218.5	1207.0	1206.4	1210.6	1295.0	1567.4	2047.4	2463.2	2488.0	2431.0
30°	1444.2	1435.2	1390.8	1343.0	1321.1	1371.4	1606.3	2134.3	2701.6	2746.0	2674.3
32.5°	1793.2	1779.8	1698.5	1583.8	1468.5	1494.7	1676.1	2233.2	2961.3	3041.5	2954.0
35°	2171.9	2168.2	2083.3	1912.8	1711.2	1670.0	1789.5	2363.0	3244.7	3372.1	3268.4
37.5°	2523.9	2522.0	2473.4	2272.6	2027.4	1914.6	1971.6	2533.0	3548.1	3732.6	3610.0
40°	2845.5	2850.9	2802.4	2622.8	2375.7	2228.4	2219.2	2742.9	3885.6	4125.3	3979.7
42.5°	3123.4	3129.4	3080.3	2947.4	2719.8	2575.4	2523.2	3000.2	4215.1	4547.0	4374.7
45°	3312.1	3349.7	3342.4	3236.2	3073.1	2923.1	2888.6	3323.0	4590.7	4994.2	4792.2
47.5°	3365.5	3400.1	3454.8	3469.3	3369.8	3222.3	3263.6	3712.0	4970.6	5442.1	5212.1
50°	3233.9	3266.0	3379.4	3530.6	3599.8	3554.2	3628.3	4128.9	5359.6	5888.7	5624.2
52.5°	2974.1	3006.8	3150.1	3389.2	3671.3	3814.5	3994.2	4539.7	5736.4	6311.7	6014.4
55°	2598.5	2633.0	2816.9	3087.6	3534.8	3922.0	4299.5	4949.9	6081.7	6692.2	6366.3
57.5°	2087.5	2113.0	2304.2	2682.8	3191.3	3815.2	4524.6	5397.9	6407.0	7066.0	6715.3
60°	1360.5	1382.9	1605.0	2027.4	2622.2	3458.4	4569.4	5897.2	6839.0	7552.1	7185.6
62.5°	904.8	919.9	1051.6	1361.7	1846.6	2773.2	4306.7	6296.0	7472.6	8398.0	7992.0
65°	620.8	636.0	767.6	983.7	1193.0	1834.4	3551.2	6243.2	8046.7	9069.8	8589.8
67.5°	443.0	455.7	567.4	771.3	863.6	1065.6	2407.3	5568.3	7964.1	9095.2	8621.9
70°	317.3	324.6	416.9	600.8	686.3	640.2	1338.6	4258.8	6973.2	8398.6	7965.4
72.5°	222.1	224.6	289.5	457.6	552.8	467.3	637.1	2839.4	5274.0	6592.1	6175.1
75°	150.5	153.5	194.7	335.6	443.6	356.8	337.4	1522.5	3096.1	3648.9	3270.9
77.5°	92.2	93.5	125.7	229.4	331.9	271.8	217.2	645.0	1197.9	1176.1	1002.4
80°	52.2	52.2	80.1	142.6	226.3	175.4	152.3	274.3	379.2	333.1	293.7
82.5°	29.1	29.7	58.2	88.6	149.9	103.7	83.7	126.8	163.8	145.0	126.2
85°	12.1	13.3	35.8	41.9	71.6	51.6	34.0	53.4	60.7	54.0	39.5
87.5°	1.2	1.8	11.0	7.9	8.5	10.4	4.8	10.4	8.5	8.5	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°	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4	1396.4
2.5°	1405.5	1396.4	1373.3	1346.5	1311.4	1294.4	1271.3	1255.5	1242.2	1243.4	1231.2
5°	1432.7	1409.7	1358.1	1293.8	1213.7	1156.6	1095.9	1054.1	1020.1	1012.8	996.4
7.5°	1470.4	1434.0	1343.6	1227.6	1092.3	989.7	898.1	839.3	797.3	784.0	770.7
10°	1518.9	1466.2	1324.7	1144.5	949.7	819.2	720.9	674.8	646.3	636.5	629.2
12.5°	1575.3	1503.2	1299.8	1043.1	802.9	677.2	614.7	591.6	582.6	579.5	577.7
15°	1646.4	1549.3	1262.2	923.0	678.4	590.5	563.8	560.7	561.9	560.7	560.1
17.5°	1730.7	1599.6	1200.9	799.2	594.7	546.1	536.5	538.8	541.9	541.3	540.1
20°	1823.0	1649.4	1122.7	689.4	537.6	514.6	509.1	511.6	514.0	512.8	512.2
22.5°	1927.9	1702.8	1035.9	603.8	499.4	485.4	479.4	480.0	480.0	477.5	476.3
25°	2053.5	1761.7	944.8	543.1	470.3	459.4	452.1	449.7	446.0	438.7	437.6
27.5°	2203.4	1824.2	857.4	500.6	447.2	437.0	428.4	422.4	413.3	401.1	400.0
30°	2372.2	1900.0	783.4	474.0	429.1	418.7	409.0	400.0	386.5	371.4	370.1
32.5°	2570.6	1981.3	729.4	456.3	412.7	401.7	390.2	379.2	364.7	349.5	350.1
35°	2807.3	2079.6	697.8	444.2	400.0	385.3	372.6	360.5	349.5	336.2	335.0
37.5°	3063.9	2184.0	688.2	438.1	391.4	369.0	354.3	345.9	344.7	336.8	336.2
40°	3344.9	2307.8	695.5	434.5	382.3	353.2	337.4	335.6	338.7	324.6	325.2
42.5°	3642.2	2454.7	707.6	430.3	369.5	337.4	322.3	322.3	319.8	300.4	300.4
45°	3963.9	2624.0	719.8	419.9	354.3	321.6	310.1	305.9	295.5	276.8	276.1
47.5°	4287.9	2796.3	728.8	401.1	336.2	308.3	298.0	288.2	273.1	256.0	255.4
50°	4595.6	2951.1	719.1	373.2	315.6	295.5	284.6	271.2	254.9	243.3	241.5
52.5°	4870.5	3085.1	677.8	340.4	293.7	282.2	272.4	258.5	245.2	233.0	231.9
55°	5109.5	3193.8	605.1	309.4	274.3	270.6	261.0	243.3	225.1	214.8	213.6
57.5°	5338.9	3276.3	514.0	284.0	256.7	257.9	243.3	227.6	210.5	199.7	198.4
60°	5644.2	3386.7	421.8	260.3	237.9	241.5	225.7	214.2	193.0	179.1	177.2
62.5°	6132.1	3558.5	335.0	231.2	216.1	217.2	210.5	196.6	171.2	154.8	153.5
65°	6519.2	3495.4	263.9	199.7	191.2	193.0	193.0	177.8	150.5	131.7	129.9
67.5°	6475.5	2992.9	210.5	168.7	167.5	168.7	172.9	160.2	133.5	118.3	115.9
70°	5965.2	2380.7	168.7	140.2	145.7	142.6	154.8	146.3	120.1	105.0	103.1
72.5°	4867.4	1714.9	128.6	115.9	111.6	116.5	139.6	131.7	100.1	83.1	81.3
75°	2844.3	915.1	95.8	91.6	80.7	97.1	123.8	112.2	76.5	61.3	59.4
77.5°	926.0	319.2	70.4	67.3	60.1	78.3	105.6	94.7	62.5	48.6	46.7
80°	248.2	96.5	48.0	44.3	38.8	58.2	83.7	75.2	44.9	31.6	31.0
82.5°	99.5	40.7	27.9	24.9	21.2	40.1	66.1	60.7	33.4	20.0	20.0
85°	32.2	13.3	10.4	7.9	9.7	24.9	39.5	41.3	23.7	10.4	7.9
87.5°	4.2	1.8	1.8	2.5	1.8	4.2	12.1	11.5	6.7	1.2	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)