

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: P881923

Luminaire Tested: **NAV-SB1C-760-U-SL4-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-760-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5641 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

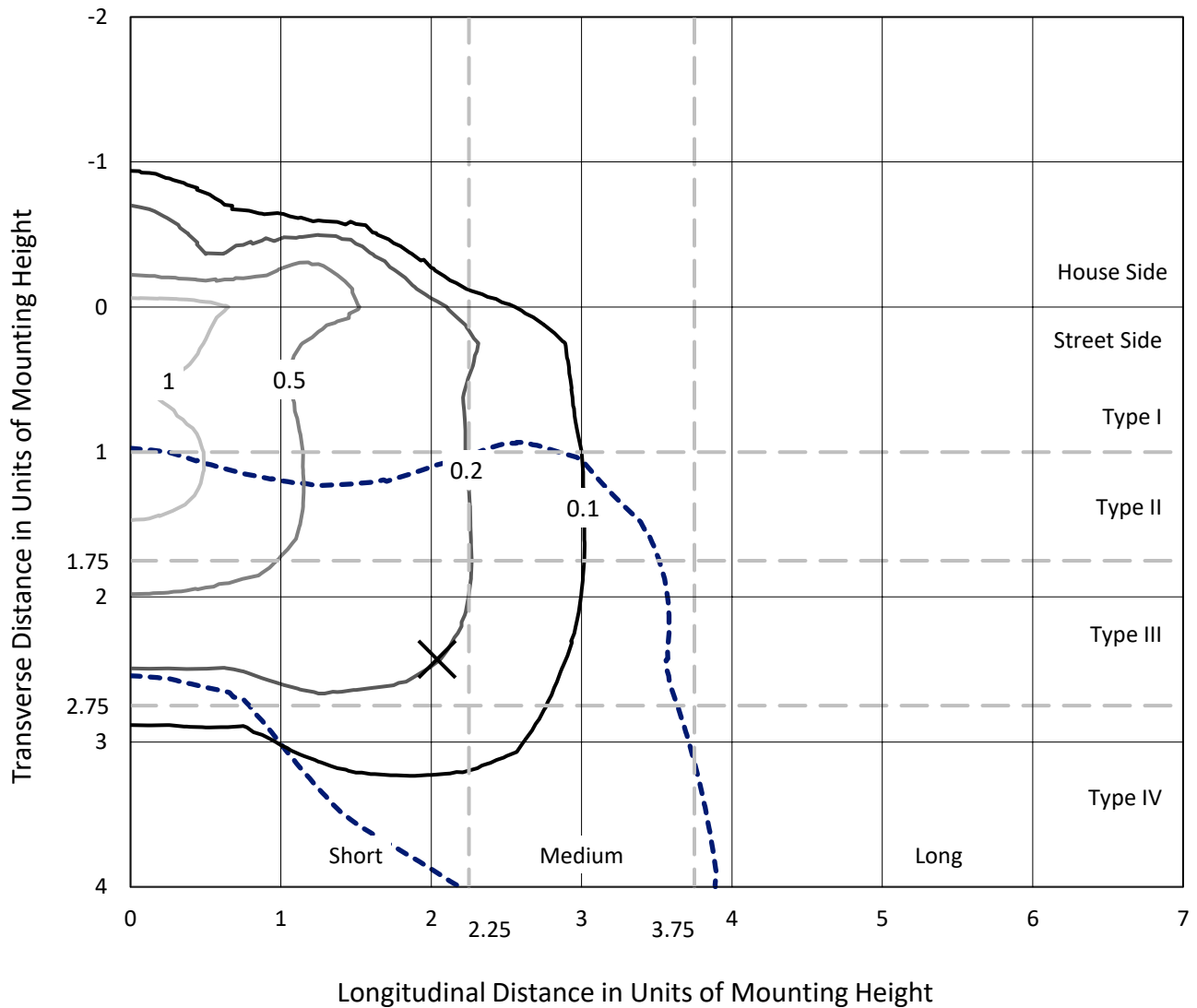
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

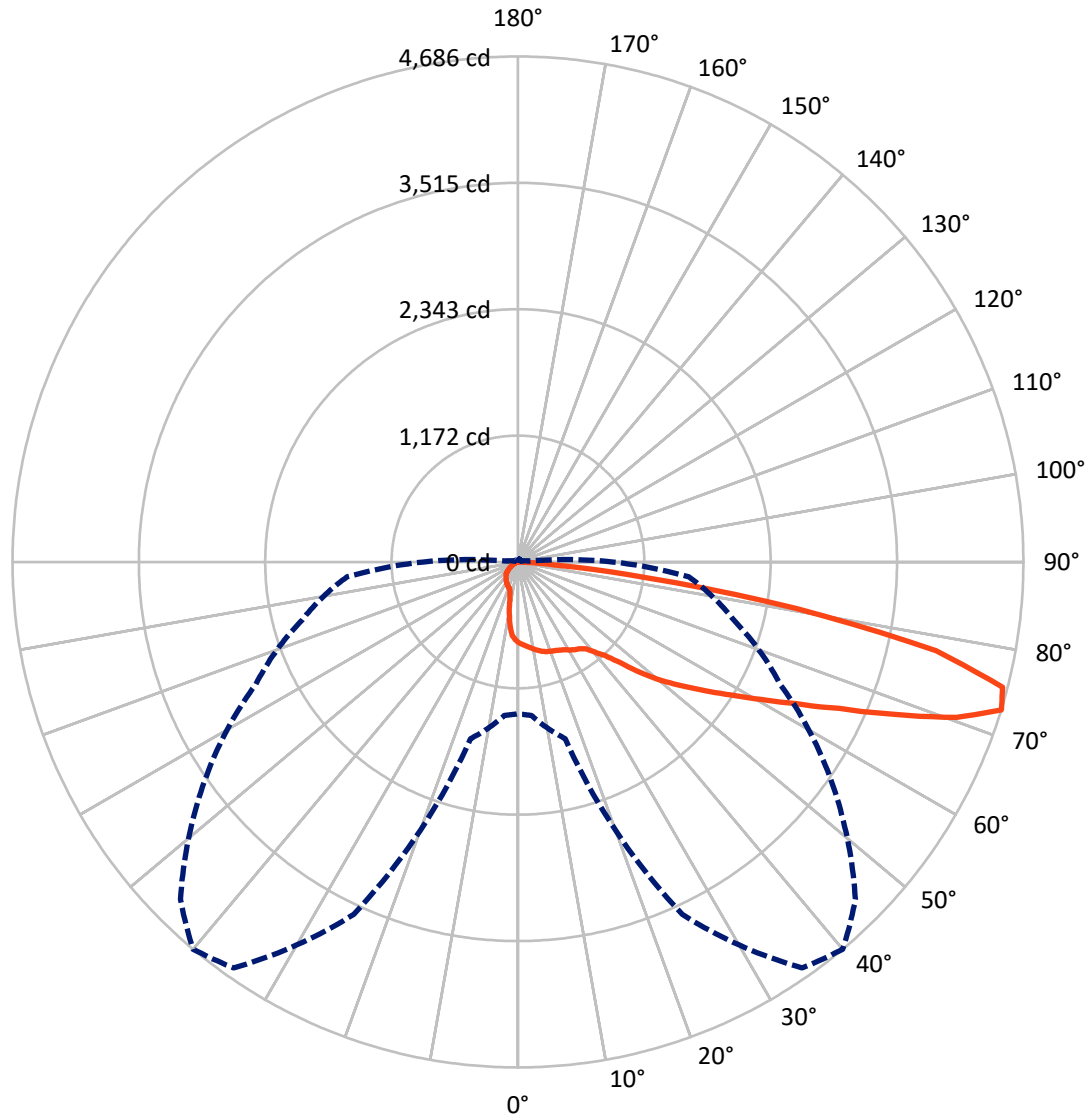
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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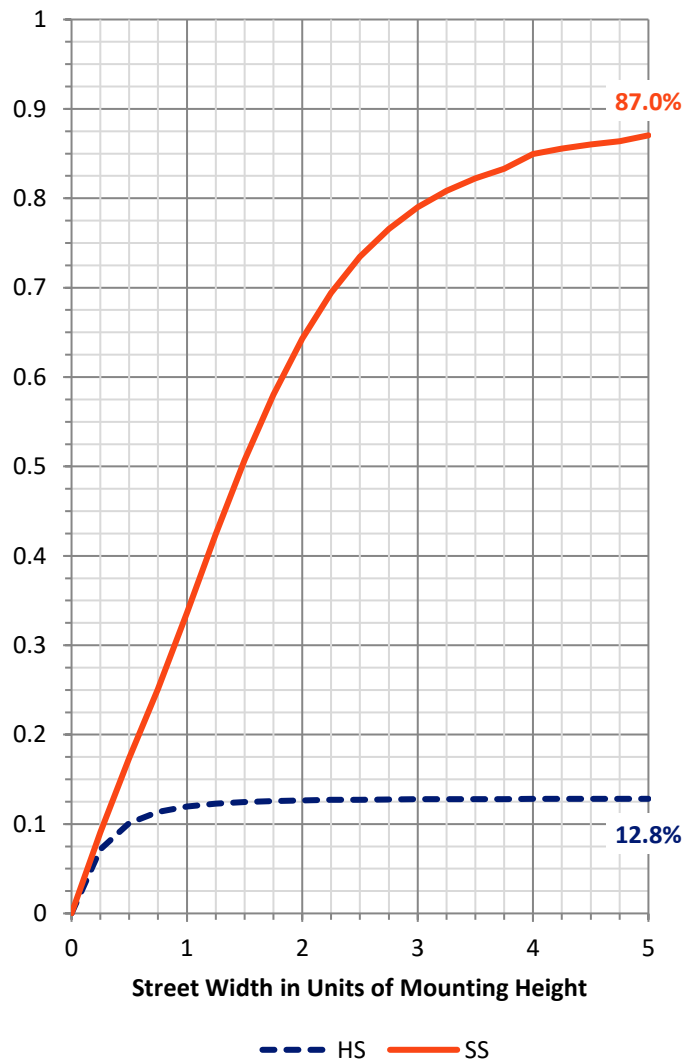
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	728.5	0.0	728.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4912.5	0.0	4912.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	5641.0	0.0	5641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.2
10°-20°	185.2	3.3
20°-30°	299.7	5.3
30°-40°	442.5	7.8
40°-50°	744.8	13.2
50°-60°	1156.4	20.5
60°-70°	1447.0	25.7
70°-80°	1184.7	21.0
80°-90°	112.3	2.0
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°	5641.0	100.0
0°-180°	5641.0	100.0

Coefficient of Utilization



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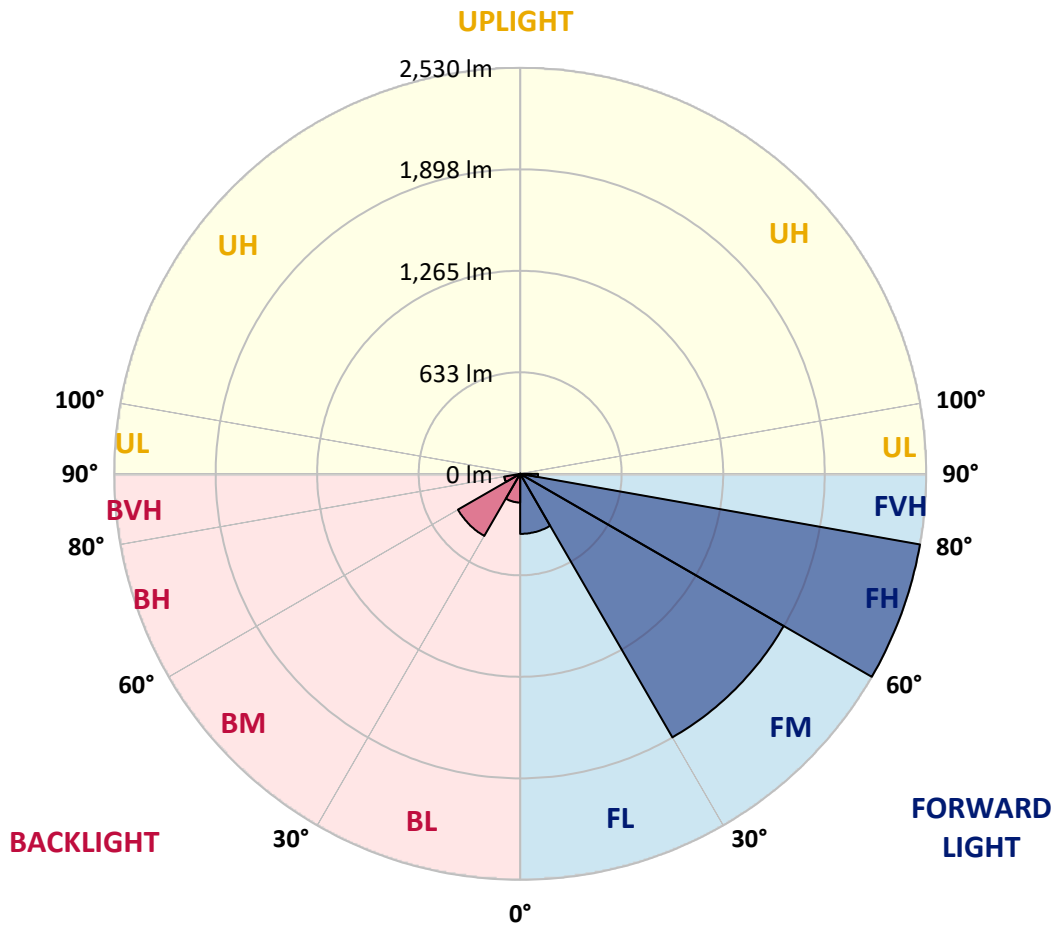
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.4	6.6			
FM (30°-60°)	1896.4	33.6			
FH (60°-80°)	2530.2	44.9			G2/5000
FVH (80°-90°)	111.5	2.0			G2/225
BL (0°-30°)	178.8	3.2	B1/500		
BM (30°-60°)	447.3	7.9	B1/1000		
BH (60°-80°)	101.5	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	769.4	772.4	770.7	767.3	766.5	764.8	762.6	761.8	758.8	756.3	753.3
5°	791.1	794.1	791.9	787.3	785.2	783.0	780.1	777.5	771.6	766.0	759.2
7.5°	814.9	817.4	814.9	808.1	804.7	802.1	797.9	794.1	787.3	779.2	770.7
10°	841.2	843.4	839.5	830.6	825.1	821.3	817.4	813.2	806.8	797.9	787.7
12.5°	865.9	868.4	862.5	851.9	845.5	841.7	837.4	834.0	827.6	819.1	808.5
15°	888.4	892.2	882.0	870.6	863.3	860.4	856.1	854.0	849.7	843.8	834.0
17.5°	905.4	907.9	897.3	883.7	875.6	873.5	870.6	871.8	871.0	868.0	861.6
20°	919.8	921.5	907.5	890.9	882.0	882.4	881.6	885.8	887.5	887.5	887.1
22.5°	937.7	938.1	920.3	899.4	888.8	891.8	893.1	897.7	901.1	904.5	912.2
25°	961.0	960.2	939.0	910.5	901.1	905.4	908.4	910.1	913.9	919.4	936.8
27.5°	995.9	993.3	966.1	928.3	917.3	921.1	926.6	925.8	924.1	928.3	957.6
30°	1040.1	1036.7	1000.6	953.4	943.2	946.6	948.3	940.7	928.3	932.2	975.9
32.5°	1110.2	1104.2	1054.1	981.4	965.7	969.5	967.4	951.7	933.4	937.3	994.2
35°	1232.1	1217.7	1146.7	1040.1	991.2	987.0	981.9	966.6	944.1	940.2	1009.5
37.5°	1491.3	1465.8	1344.7	1154.4	1049.0	1021.4	1005.7	990.4	955.5	940.2	1026.9
40°	1783.6	1757.7	1617.9	1345.6	1145.0	1098.3	1060.9	1018.4	967.4	945.8	1054.1
42.5°	2088.6	2060.2	1916.6	1582.6	1282.2	1186.2	1116.5	1040.9	987.0	962.7	1090.2
45°	2429.4	2393.7	2205.9	1829.9	1481.5	1332.4	1206.2	1087.2	1021.0	992.9	1139.5
47.5°	2788.8	2742.5	2494.4	2069.9	1696.1	1534.6	1370.2	1170.1	1071.1	1037.9	1206.2
50°	3107.5	3061.6	2792.2	2321.0	1896.6	1727.1	1557.1	1284.8	1146.3	1101.7	1295.8
52.5°	3336.5	3301.6	3063.3	2580.2	2105.2	1907.6	1726.7	1418.2	1241.5	1183.3	1401.6
55°	3489.8	3458.0	3255.3	2825.8	2347.8	2106.5	1893.6	1563.1	1356.2	1281.0	1518.5
57.5°	3582.9	3564.6	3394.3	3045.0	2588.3	2324.0	2084.8	1722.4	1491.3	1396.1	1648.9
60°	3616.0	3601.2	3480.5	3254.0	2878.9	2585.3	2309.6	1902.1	1655.3	1527.0	1782.7
62.5°	3527.7	3530.6	3542.5	3501.7	3185.2	2891.2	2578.9	2118.0	1837.1	1675.2	1908.5
65°	3111.7	3136.4	3362.4	3776.2	3591.0	3274.4	2921.8	2381.4	2045.3	1843.9	2008.3
67.5°	2576.4	2612.1	2893.3	3936.8	4023.5	3772.0	3399.4	2717.0	2293.4	2015.6	2046.2
70°	1972.2	2010.5	2351.2	3903.2	4428.4	4315.8	3989.9	3144.0	2550.5	2134.5	1949.7
72.5°	1407.6	1427.1	1695.6	3604.6	4594.5	4686.3	4425.0	3548.5	2681.8	2068.7	1590.3
75°	989.1	985.7	1163.7	2902.7	4335.8	4641.2	4272.5	3329.7	2426.8	1643.4	980.6
77.5°	430.8	431.7	581.2	1762.8	3460.5	3964.0	3551.5	2085.7	1691.8	871.0	413.8
80°	111.7	115.1	213.3	701.9	2083.5	2616.3	2166.0	916.9	781.8	212.4	79.0
82.5°	39.5	42.1	98.1	220.5	768.6	1199.8	964.4	293.2	203.9	60.8	21.2
85°	11.5	13.6	52.7	67.6	158.9	339.0	234.1	56.9	50.1	31.4	5.5
87.5°	0.0	1.7	10.6	9.3	9.3	6.4	11.9	6.4	8.1	3.8	1.7
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°	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9	746.9
2.5°	750.7	747.8	741.4	734.6	728.2	722.3	720.6	714.2	711.2	711.7	711.2
5°	754.6	749.0	736.7	721.8	706.6	689.1	674.7	654.3	636.9	634.7	633.5
7.5°	764.8	755.8	735.9	707.0	668.7	620.7	576.1	531.9	506.9	493.3	492.4
10°	780.5	768.6	738.0	682.8	601.6	515.8	448.2	392.6	364.1	350.9	348.4
12.5°	799.2	786.0	741.4	641.5	514.9	402.3	329.3	295.3	289.3	288.5	288.1
15°	825.5	811.1	745.2	585.9	421.0	306.3	272.8	273.2	277.9	280.4	280.0
17.5°	854.8	840.4	739.7	517.9	328.4	261.7	260.9	264.7	271.5	274.0	273.6
20°	884.6	871.0	720.1	438.0	265.5	249.4	252.8	257.0	263.8	267.2	267.2
22.5°	915.2	903.3	689.1	353.1	239.6	240.5	244.7	249.0	256.6	260.4	260.4
25°	947.9	937.7	647.9	283.0	228.6	231.1	236.7	241.7	249.8	254.5	254.5
27.5°	981.0	973.4	601.2	236.2	218.4	221.4	227.7	234.5	242.6	248.1	248.5
30°	1017.1	1012.9	563.8	218.8	208.6	211.2	218.4	226.0	235.0	241.7	242.6
32.5°	1054.1	1053.2	545.5	231.6	199.7	201.4	207.8	215.4	226.5	235.0	235.8
35°	1090.6	1092.3	534.9	267.7	196.7	192.0	196.3	203.1	216.3	226.9	228.6
37.5°	1137.4	1141.6	534.5	306.8	203.9	182.7	185.7	190.3	201.8	214.1	216.3
40°	1207.0	1229.6	561.7	340.3	216.7	174.2	175.0	175.9	181.8	192.0	195.4
42.5°	1299.7	1365.5	659.8	363.3	221.8	166.5	163.6	158.9	158.1	163.6	166.5
45°	1414.8	1529.9	832.3	376.0	216.7	158.1	150.0	137.7	133.0	136.8	136.8
47.5°	1550.3	1710.1	1036.7	379.0	208.2	147.4	133.0	116.8	113.0	114.3	113.9
50°	1682.5	1845.2	1216.4	354.3	194.2	133.8	114.3	100.7	98.1	98.6	98.6
52.5°	1799.3	1891.5	1267.4	296.1	175.5	117.3	98.1	88.8	87.1	87.1	86.7
55°	1876.6	1841.4	1130.1	226.5	152.1	100.3	84.1	79.4	78.6	78.2	77.3
57.5°	1892.8	1678.2	853.6	163.6	119.0	84.5	74.8	72.2	70.5	68.8	68.0
60°	1835.0	1406.3	543.4	114.3	89.2	72.2	66.3	64.6	61.2	57.8	56.5
62.5°	1710.1	1062.2	300.8	79.4	71.8	61.6	58.6	56.5	50.1	44.6	42.9
65°	1542.3	706.1	133.0	62.0	58.6	51.8	50.1	47.2	39.5	33.1	31.9
67.5°	1373.6	406.6	59.9	49.7	47.2	42.5	41.2	39.1	33.6	27.6	26.8
70°	1181.1	206.1	41.2	39.5	36.5	32.3	33.6	33.1	27.6	22.5	21.7
72.5°	879.5	102.4	31.0	29.7	26.3	22.9	27.6	27.2	21.7	17.0	16.1
75°	497.9	50.6	22.5	20.8	15.7	17.0	22.1	20.8	14.9	11.0	10.2
77.5°	197.6	25.9	14.9	12.7	9.3	11.5	16.1	14.0	7.6	4.7	4.2
80°	45.5	12.7	7.6	5.5	4.2	6.8	8.5	5.1	2.1	0.4	0.0
82.5°	12.7	5.5	2.5	2.1	2.1	2.5	2.1	0.8	0.0	0.0	0.0
85°	4.2	2.5	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	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)