

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: P960270

Luminaire Tested: **NAV-SB1C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4886.2 lumens
Efficiency: N/A
Efficacy: 89.8 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

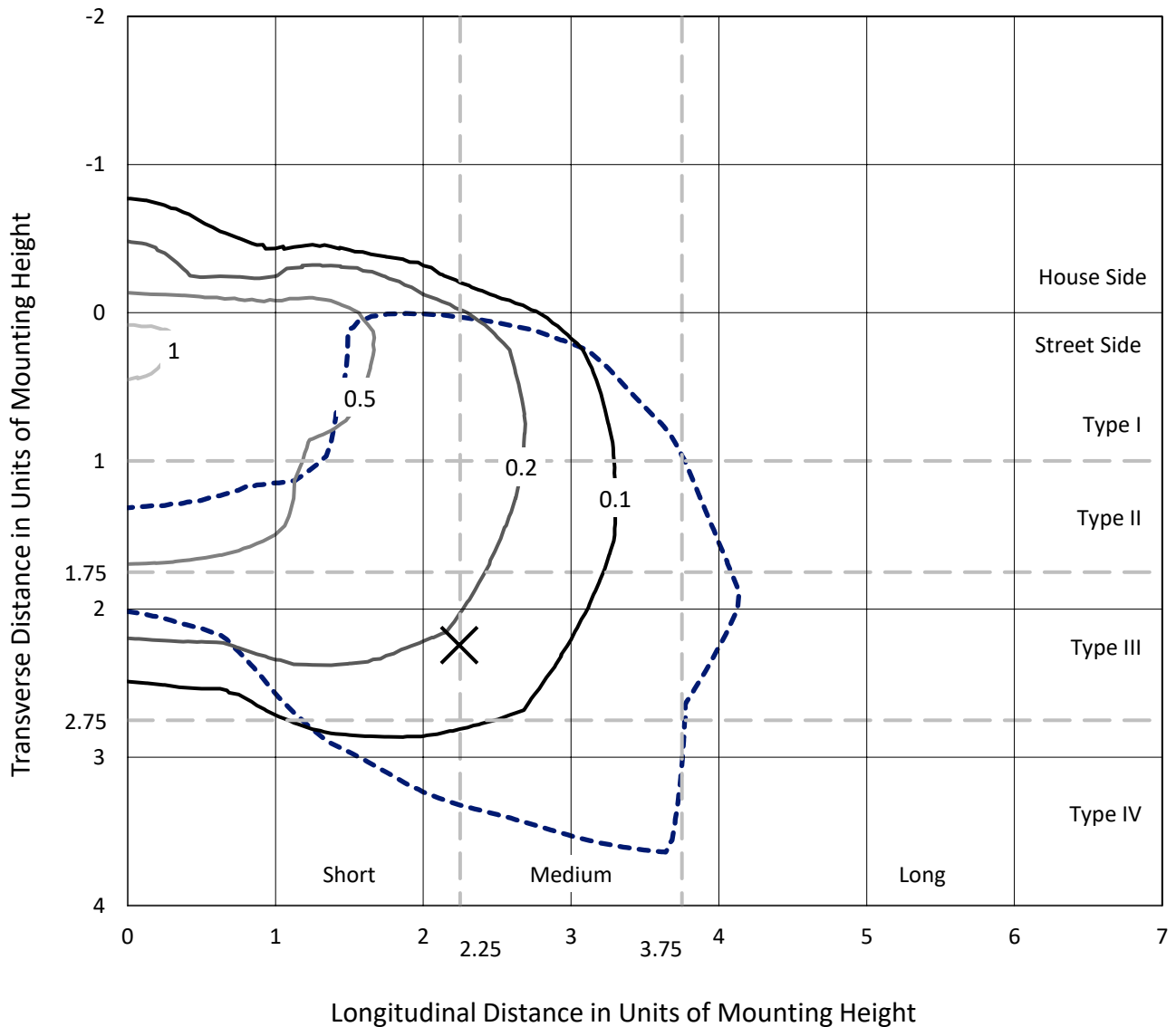
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

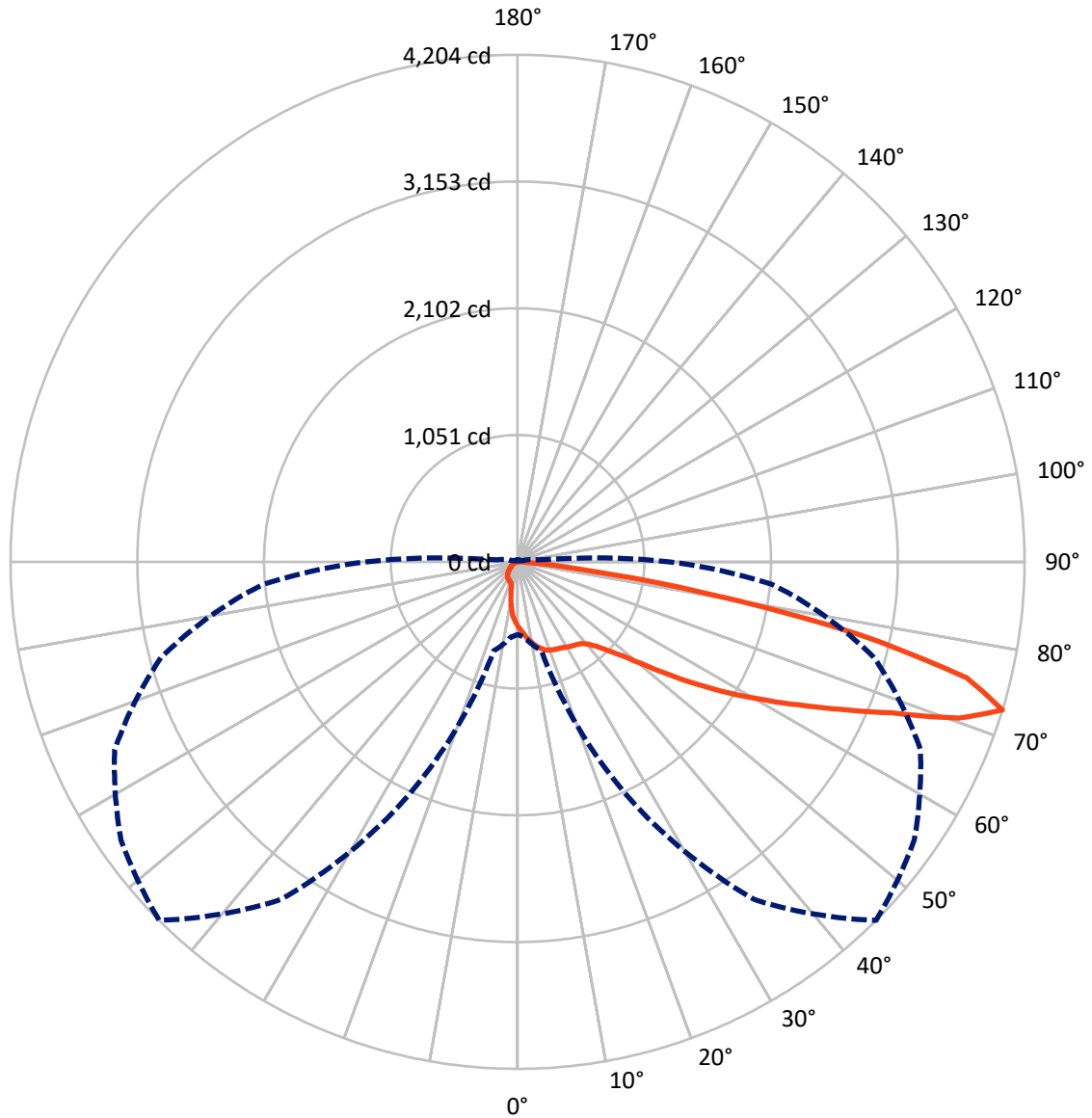
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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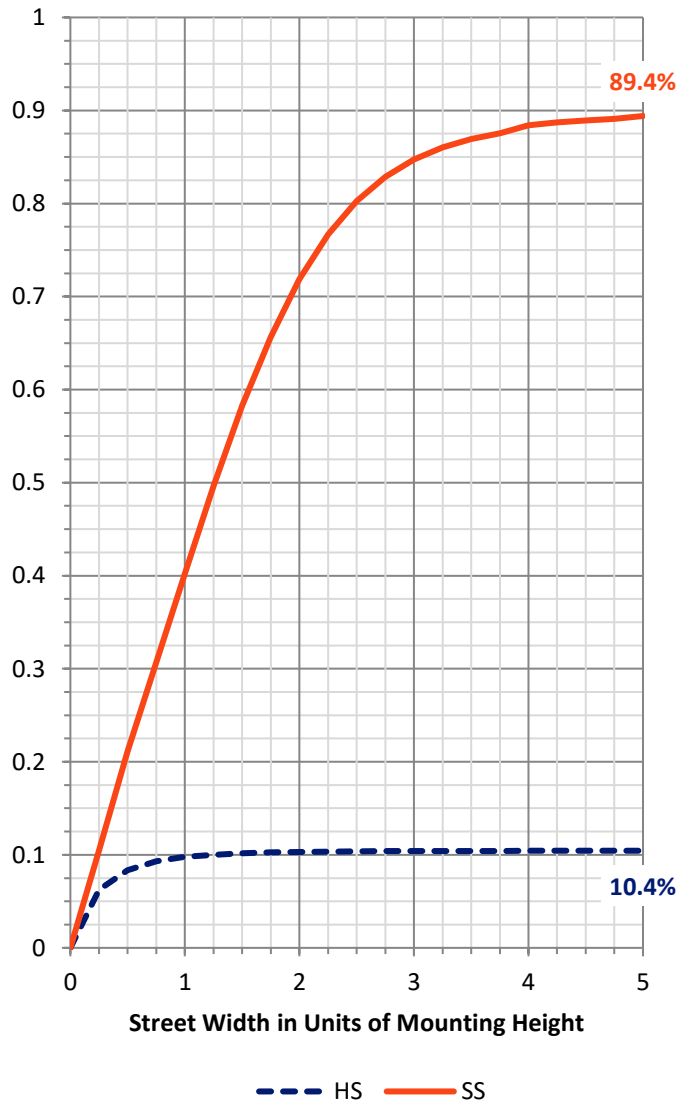
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.4	0.0	513.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4372.8	0.0	4372.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	4886.2	0.0	4886.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.0
10°-20°	147.4	3.0
20°-30°	242.1	5.0
30°-40°	343.3	7.0
40°-50°	567.4	11.6
50°-60°	1019.3	20.9
60°-70°	1415.4	29.0
70°-80°	1026.7	21.0
80°-90°	74.2	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°	4886.2	100.0
0°-180°	4886.2	100.0

Coefficient of Utilization



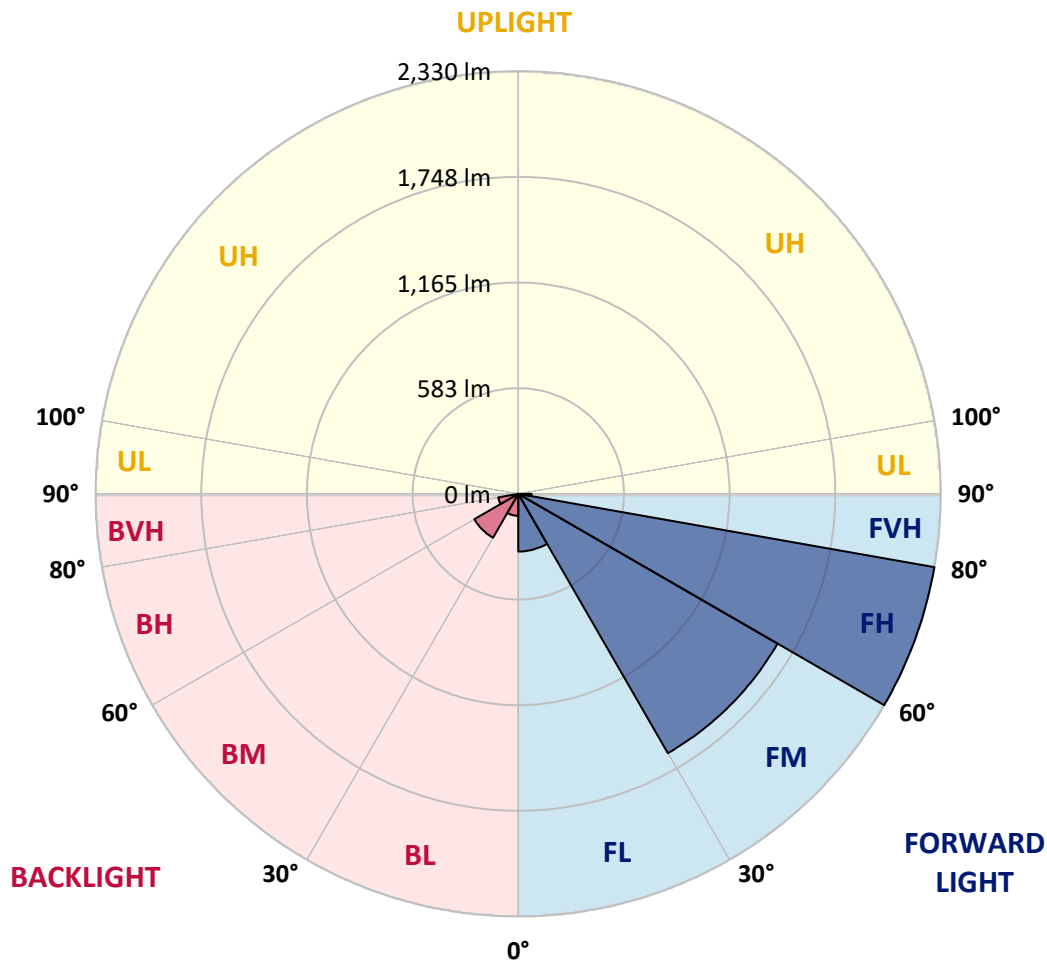
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.3	6.5			
FM (30°-60°)	1650.8	33.8			
FH (60°-80°)	2330.1	47.7			G2/5000
FVH (80°-90°)	73.6	1.5			G1/100
BL (0°-30°)	121.6	2.5	B1/500		
BM (30°-60°)	279.2	5.7	B1/1000		
BH (60°-80°)	111.9	2.3	B1/500		G1/500
BVH (80°-90°)	0.6	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°	45°	46°	55°	65°	75°	85°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	584.7	585.7	585.0	581.0	574.3	570.6	568.7	562.0	557.6	550.0	541.9
5°	638.4	642.4	640.0	632.0	619.3	610.3	607.6	594.0	581.7	567.3	550.6
7.5°	695.4	697.4	693.0	682.8	665.7	650.4	648.0	629.0	609.4	587.3	564.7
10°	744.8	747.1	740.4	725.4	706.0	687.1	683.7	662.7	639.4	612.3	583.3
12.5°	786.1	788.4	779.7	761.8	740.4	720.7	717.4	695.4	669.7	639.7	603.6
15°	817.4	821.7	810.1	790.8	767.7	748.0	746.4	724.8	699.7	666.4	628.0
17.5°	835.8	840.1	829.1	805.8	786.1	769.5	767.4	749.4	726.1	694.0	651.7
20°	838.8	842.8	831.1	810.8	794.5	781.0	780.1	767.1	750.1	719.3	677.3
22.5°	829.7	834.8	824.1	807.8	796.4	789.5	788.1	780.7	771.1	745.1	701.4
25°	820.4	824.4	816.4	802.1	796.1	795.4	796.4	795.1	793.1	771.1	729.4
27.5°	819.8	824.1	815.1	801.4	798.1	805.1	806.1	812.4	814.2	794.8	756.4
30°	825.4	828.4	819.8	805.4	803.8	819.8	820.1	831.5	834.1	814.8	783.1
32.5°	837.8	841.1	832.4	811.4	809.1	831.5	832.4	847.5	851.8	836.1	811.1
35°	866.8	870.8	860.8	828.1	819.8	842.4	845.4	863.2	871.8	858.8	840.1
37.5°	939.2	927.5	913.8	861.8	844.1	859.8	864.8	885.5	900.9	885.8	874.8
40°	1119.0	1082.3	1039.6	919.1	886.8	896.8	900.9	921.5	942.5	927.8	922.5
42.5°	1388.8	1345.4	1276.7	1051.2	951.2	956.2	959.2	977.2	1006.9	995.2	996.5
45°	1629.2	1613.6	1543.5	1276.7	1071.5	1046.9	1050.5	1060.0	1103.6	1099.3	1107.9
47.5°	1813.9	1805.0	1750.9	1535.4	1275.0	1157.9	1168.3	1172.6	1235.6	1251.0	1274.4
50°	1956.1	1952.7	1904.3	1765.7	1540.9	1321.7	1325.4	1316.0	1410.4	1448.4	1492.8
52.5°	2090.2	2101.5	2065.8	1979.4	1824.7	1536.2	1535.4	1491.5	1618.9	1676.3	1751.9
55°	2211.2	2215.2	2218.9	2197.5	2110.2	1780.3	1774.0	1701.9	1860.7	1920.0	2002.1
57.5°	2324.9	2326.6	2359.2	2403.0	2407.3	2042.4	2030.7	1944.4	2124.8	2167.2	2217.6
60°	2401.3	2409.0	2478.0	2599.4	2652.4	2312.9	2306.6	2218.5	2393.7	2413.4	2403.9
62.5°	2291.3	2337.9	2512.1	2752.8	2883.9	2612.7	2609.8	2527.0	2676.5	2660.5	2580.4
65°	1854.6	1933.8	2239.9	2856.6	3111.0	2947.6	2951.9	2863.8	2967.0	2914.9	2723.8
67.5°	1297.3	1380.8	1742.9	2864.9	3364.9	3340.8	3365.8	3227.7	3275.5	3158.7	2757.9
70°	897.2	940.1	1176.0	2685.5	3562.6	3882.4	3881.8	3674.6	3582.3	3269.7	2584.4
72.5°	603.3	625.7	763.7	2130.5	3417.1	4204.2	4185.0	4016.2	3685.7	3058.0	2111.5
75°	254.5	270.8	353.5	1197.3	2703.4	3846.4	3794.0	3549.3	3274.8	2407.9	1317.4
77.5°	80.7	87.7	139.4	428.6	1489.1	2891.2	2835.9	2216.6	2194.8	1208.0	481.5
80°	38.3	44.7	78.4	172.1	586.0	1572.6	1564.9	1005.5	944.2	326.2	96.8
82.5°	16.7	19.7	43.4	92.0	262.1	561.0	572.4	342.1	283.1	123.7	29.7
85°	5.3	7.0	20.0	42.3	110.7	139.4	137.8	81.4	114.1	67.3	10.4
87.5°	0.0	0.0	6.7	9.6	11.4	8.0	9.0	7.0	31.7	18.7	3.7
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°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	537.9	532.6	523.3	514.7	507.0	499.3	494.6	487.9	487.3	487.3	488.9
5°	541.6	533.0	516.3	498.6	478.3	458.9	439.6	420.9	414.9	410.5	412.6
7.5°	552.3	538.6	512.3	478.6	439.9	397.6	367.9	335.9	323.5	316.8	317.9
10°	567.6	549.0	508.9	449.9	387.2	329.5	287.2	252.5	239.1	233.5	233.5
12.5°	584.7	561.6	503.0	414.2	329.5	260.5	219.1	203.2	201.1	201.1	201.1
15°	605.0	577.0	492.6	372.2	269.2	206.1	191.5	192.1	194.1	195.5	195.5
17.5°	626.0	593.4	476.2	325.1	215.8	185.4	185.7	186.8	188.4	189.7	189.7
20°	648.7	609.7	454.6	275.1	185.1	179.5	180.4	181.4	182.8	183.5	183.8
22.5°	673.0	625.0	428.9	226.1	174.8	174.5	174.8	175.8	177.4	177.4	178.1
25°	699.0	642.1	399.5	190.4	169.4	169.4	170.0	170.8	172.1	172.1	172.4
27.5°	725.7	657.6	368.5	171.8	164.7	164.4	164.4	165.4	166.0	166.5	166.8
30°	755.1	676.0	337.5	167.8	161.1	159.4	158.5	159.1	159.8	160.1	160.7
32.5°	785.0	693.7	309.9	169.4	157.4	154.5	151.1	150.4	150.4	151.7	152.7
35°	818.5	713.1	288.5	175.1	155.4	147.1	141.8	138.8	139.1	141.0	142.1
37.5°	858.4	736.4	272.9	180.1	154.1	138.8	130.1	126.4	124.0	126.4	125.8
40°	910.8	770.8	261.5	184.1	152.4	129.0	117.4	111.4	107.0	108.3	107.7
42.5°	987.9	824.8	257.2	184.4	148.7	117.8	104.3	96.4	90.1	90.4	89.1
45°	1095.9	910.2	279.5	180.1	140.7	105.4	90.7	80.1	76.1	75.0	73.7
47.5°	1244.0	1034.5	331.2	171.1	129.0	93.4	77.4	68.4	65.4	63.7	62.7
50°	1442.5	1194.3	388.6	161.1	117.4	82.0	66.4	60.7	58.7	57.0	56.7
52.5°	1672.6	1356.4	435.5	151.1	105.7	72.1	59.3	56.1	54.3	53.0	52.7
55°	1883.6	1468.1	432.9	140.4	94.4	64.1	54.3	52.4	50.3	49.0	48.4
57.5°	2015.0	1483.8	356.9	128.7	81.4	57.7	49.7	48.4	46.0	44.4	44.1
60°	2075.4	1394.4	250.1	113.4	68.4	51.7	44.7	44.1	41.0	38.6	38.0
62.5°	2086.5	1228.4	166.8	94.4	57.0	46.0	39.7	38.6	34.6	30.6	28.7
65°	2041.8	990.9	115.4	73.7	48.7	40.0	34.0	32.0	27.7	23.7	22.3
67.5°	1900.4	695.7	80.4	53.0	41.3	31.7	27.1	26.3	23.1	19.7	18.7
70°	1641.2	396.6	53.7	39.7	32.7	21.6	21.3	22.0	18.7	16.0	14.7
72.5°	1258.4	181.4	33.3	29.0	22.3	14.7	17.0	17.3	14.3	12.0	10.7
75°	740.8	77.7	21.0	18.7	11.4	9.6	12.3	12.7	9.6	7.7	6.7
77.5°	252.2	29.3	13.3	11.0	5.6	5.3	8.0	8.0	5.3	3.0	2.4
80°	57.4	11.0	6.7	4.3	2.7	2.4	2.7	2.4	1.3	0.3	0.0
82.5°	16.3	4.3	2.7	1.6	1.0	1.0	0.3	0.0	0.0	0.0	0.0
85°	4.7	2.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.3	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)