

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: P961849

Luminaire Tested: **NAV-SB2B-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7219.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

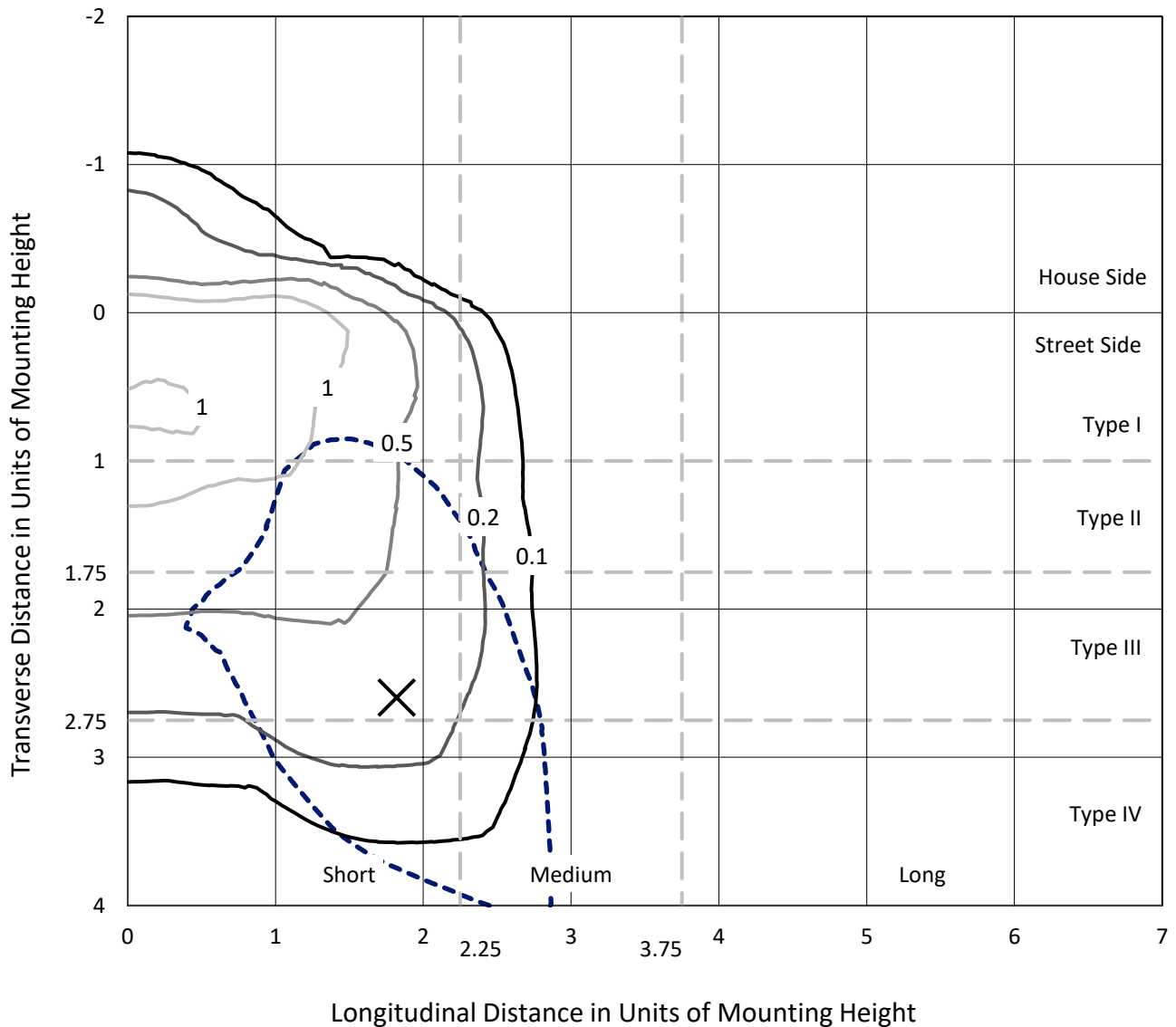
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

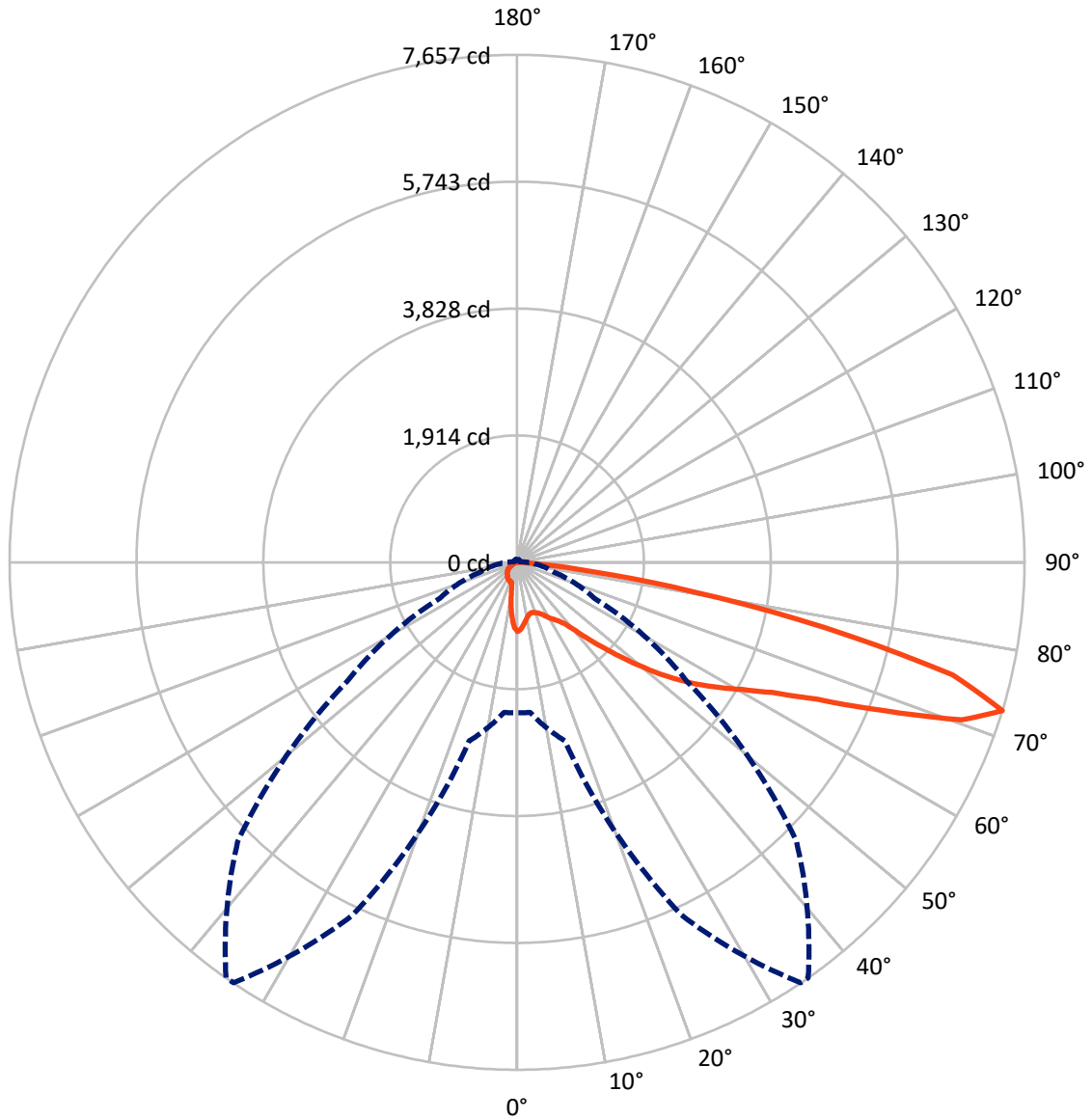
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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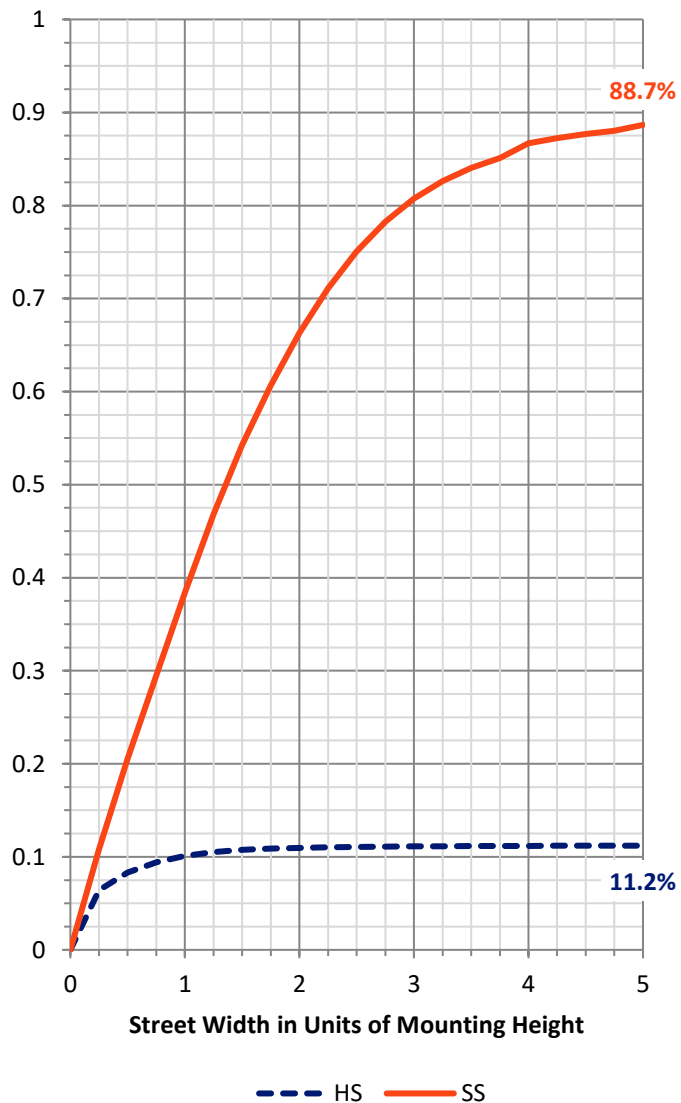
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	812.5	0.0	812.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6406.6	0.0	6406.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	7219.1	0.0	7219.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.2
10°-20°	201.1	2.8
20°-30°	326.7	4.5
30°-40°	545.2	7.6
40°-50°	1031.4	14.3
50°-60°	1639.0	22.7
60°-70°	2027.5	28.1
70°-80°	1260.3	17.5
80°-90°	101.8	1.4
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°	7219.1	100.0
0°-180°	7219.1	100.0

Coefficient of Utilization

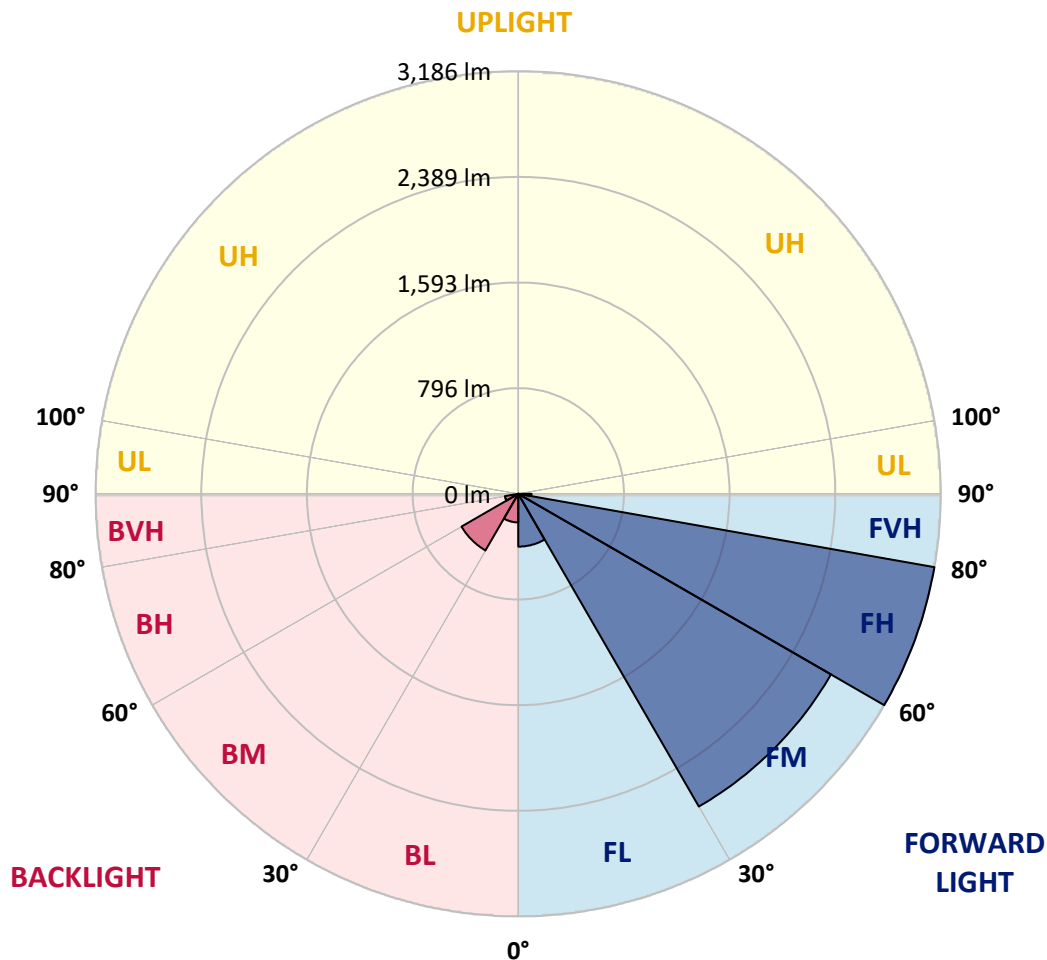


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.0	5.5			
FM (30°-60°)	2722.3	37.7			
FH (60°-80°)	3185.9	44.1			G2/5000
FVH (80°-90°)	100.5	1.4			G2/225
BL (0°-30°)	215.9	3.0	B1/500		
BM (30°-60°)	493.2	6.8	B1/1000		
BH (60°-80°)	102.0	1.4	B0/110		G0/110
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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	999.8	1008.2	1009.8	1012.4	1012.4	1015.6	1020.9	1028.3	1040.5	1046.8	1051.0
5°	921.5	927.8	935.7	942.1	954.3	955.8	976.4	996.6	1024.6	1045.8	1060.6
7.5°	842.7	850.0	860.6	876.0	891.9	896.6	927.8	961.7	1006.0	1045.8	1070.6
10°	787.1	787.6	797.1	812.5	837.8	843.7	881.8	929.9	985.4	1039.5	1080.1
12.5°	755.8	759.6	763.8	775.4	799.8	803.5	844.2	900.9	964.8	1035.7	1091.2
15°	755.8	758.5	761.2	767.0	786.6	789.8	825.7	882.3	954.3	1037.3	1109.3
17.5°	763.8	768.0	766.0	772.8	793.5	795.6	827.3	877.0	953.8	1047.3	1136.7
20°	782.9	786.1	781.8	786.1	806.7	810.9	843.7	887.0	962.7	1064.8	1171.2
22.5°	813.0	814.6	804.5	807.7	828.9	834.1	872.3	915.6	984.4	1092.9	1217.2
25°	851.1	854.2	839.0	842.7	862.7	869.1	913.0	958.5	1018.7	1131.5	1275.8
27.5°	895.0	896.6	883.3	882.8	908.8	917.8	962.2	1011.4	1064.8	1180.1	1349.9
30°	945.3	950.0	937.4	935.2	968.0	975.4	1019.3	1076.5	1132.5	1253.1	1455.2
32.5°	984.9	988.6	981.2	986.6	1019.9	1025.6	1088.7	1168.5	1238.8	1356.8	1598.5
35°	1042.0	1044.2	1027.3	1036.8	1074.8	1089.7	1183.3	1297.5	1372.7	1486.9	1785.8
37.5°	1248.9	1248.9	1176.9	1129.9	1166.3	1179.6	1312.9	1459.9	1537.7	1661.4	2021.7
40°	1535.0	1530.3	1425.1	1328.7	1324.0	1349.9	1497.5	1664.6	1750.9	1870.9	2287.2
42.5°	1840.3	1832.8	1689.5	1594.3	1578.4	1587.4	1710.6	1917.0	2004.8	2126.5	2572.9
45°	2111.1	2108.9	1977.7	1849.8	1821.2	1849.8	1976.7	2212.2	2275.1	2403.1	2858.0
47.5°	2338.0	2338.0	2242.3	2158.6	2143.9	2160.8	2337.0	2539.5	2533.7	2697.7	3135.7
50°	2599.3	2597.2	2506.2	2470.2	2485.6	2509.4	2751.6	2884.5	2801.4	2987.1	3383.7
52.5°	2782.4	2795.1	2763.8	2758.0	2836.3	2877.6	3172.7	3221.9	3041.0	3261.5	3569.5
55°	2927.3	2942.1	2978.0	3018.8	3169.5	3223.5	3580.5	3541.9	3241.5	3499.7	3676.3
57.5°	3132.5	3111.4	3166.9	3247.3	3491.2	3556.2	3975.7	3844.0	3402.8	3692.7	3688.0
60°	3381.7	3384.9	3394.4	3495.9	3812.2	3895.8	4365.0	4129.6	3506.5	3811.2	3558.9
62.5°	3681.1	3685.8	3705.4	3861.4	4243.3	4322.1	4779.7	4363.4	3554.1	3777.8	3225.6
65°	3660.4	3680.5	3899.0	4432.7	4898.7	4976.5	5263.7	4527.4	3482.1	3473.2	2626.3
67.5°	3334.5	3367.3	3732.8	5115.1	5886.8	5973.6	5848.8	4559.6	3171.7	2700.9	1713.3
70°	2907.2	2918.8	3358.4	5728.6	7031.0	7118.7	6372.4	4204.8	2406.8	1506.4	767.5
72.5°	2270.3	2272.9	2788.7	5871.0	7651.9	7656.7	5961.4	3121.4	1294.4	578.7	266.6
75°	1621.8	1606.0	1867.8	4761.2	6732.1	6786.0	4469.2	1464.2	494.6	273.5	132.7
77.5°	869.6	887.0	1056.9	2823.6	4650.6	4742.7	2438.5	422.1	251.7	186.2	87.8
80°	268.8	283.5	433.3	1292.8	2634.2	2689.8	903.9	187.8	175.6	132.7	57.7
82.5°	84.7	87.8	202.0	543.2	1093.4	1118.8	261.8	106.3	120.0	87.8	33.8
85°	24.3	24.9	89.9	202.6	270.3	275.6	73.5	41.3	68.8	54.5	17.4
87.5°	2.7	8.5	33.8	33.8	23.8	23.3	7.9	9.0	19.6	6.9	3.2
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°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	1048.4	1048.9	1042.0	1030.4	1017.7	1007.2	993.9	983.4	975.9	973.9	977.5
5°	1055.9	1052.1	1032.5	997.1	954.8	918.3	877.5	845.3	824.1	815.1	818.3
7.5°	1066.9	1056.4	1013.5	943.7	862.7	790.8	717.8	661.2	625.2	607.2	609.9
10°	1076.5	1055.2	981.7	866.4	742.6	633.7	535.4	467.1	429.0	411.0	411.5
12.5°	1085.5	1054.7	940.5	774.9	607.2	474.0	382.4	348.6	338.0	334.3	333.2
15°	1102.4	1056.4	888.7	670.1	472.3	358.1	324.8	324.2	326.4	325.3	324.8
17.5°	1125.7	1057.9	829.9	559.1	364.5	315.8	314.2	319.0	322.2	320.5	320.0
20°	1155.8	1064.3	767.5	449.1	313.1	305.2	308.9	313.1	315.8	313.1	312.6
22.5°	1198.1	1075.4	699.3	360.8	296.7	298.9	302.1	306.8	309.4	305.8	305.2
25°	1249.9	1092.9	632.1	313.6	288.8	291.4	296.2	301.6	304.7	300.9	300.4
27.5°	1317.1	1120.8	570.2	303.1	280.8	282.5	289.4	297.2	301.6	296.7	296.7
30°	1414.4	1166.9	516.8	307.8	276.1	272.4	282.0	293.0	297.8	293.6	293.0
32.5°	1543.5	1231.9	484.0	315.3	274.0	260.8	269.8	284.0	292.0	289.4	289.4
35°	1712.8	1330.9	471.3	323.7	272.4	248.6	254.9	270.3	284.0	286.7	286.7
37.5°	1918.0	1468.4	475.0	327.4	267.6	238.5	241.7	254.9	273.0	281.4	283.5
40°	2151.3	1628.6	496.2	323.7	262.4	230.1	230.6	240.7	256.6	269.3	273.5
42.5°	2391.9	1815.9	535.4	310.0	257.6	222.7	221.1	228.0	238.5	247.5	251.2
45°	2621.0	2008.5	573.9	290.9	251.7	215.2	211.6	214.2	216.4	220.1	222.1
47.5°	2820.9	2143.9	562.8	273.5	243.8	206.8	200.5	199.5	193.1	192.5	192.0
50°	2959.0	2173.5	499.9	256.0	232.3	197.3	187.3	180.9	169.8	164.5	165.0
52.5°	3002.9	2056.6	408.4	238.5	213.2	184.6	170.4	160.3	146.5	141.8	141.2
55°	2944.7	1827.6	326.4	217.4	186.8	167.7	151.8	138.6	127.5	121.7	121.7
57.5°	2802.5	1536.1	258.1	192.5	158.7	148.6	132.7	119.5	110.0	104.2	103.1
60°	2566.5	1219.8	204.2	162.9	135.4	128.0	111.6	103.1	94.7	87.8	86.2
62.5°	2208.5	870.6	160.3	129.0	113.2	104.8	95.2	88.9	78.8	69.3	67.8
65°	1723.3	532.7	123.8	94.7	91.0	86.7	81.0	75.1	62.9	53.4	51.9
67.5°	1087.0	252.4	88.4	71.4	72.0	69.8	67.1	62.4	53.4	45.0	43.9
70°	478.7	122.2	58.2	54.5	53.4	53.4	55.6	53.9	45.5	37.5	36.0
72.5°	162.9	65.6	43.4	41.3	38.6	38.1	46.5	45.0	36.5	29.1	27.5
75°	85.2	43.9	31.8	29.6	23.3	28.1	37.0	35.0	25.9	19.1	17.4
77.5°	55.6	31.2	21.7	19.1	13.2	18.6	27.5	24.3	15.4	9.5	8.5
80°	35.0	20.6	12.7	9.0	6.4	10.0	14.8	10.6	5.8	2.2	1.5
82.5°	18.6	10.6	4.7	3.2	2.7	3.2	3.7	2.7	1.0	0.0	0.0
85°	7.4	3.7	1.5	1.0	0.5	0.0	1.0	0.5	0.0	0.0	0.0
87.5°	2.7	0.5	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)