

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: P959738

Luminaire Tested: **NAV-SB1B-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3970.8 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

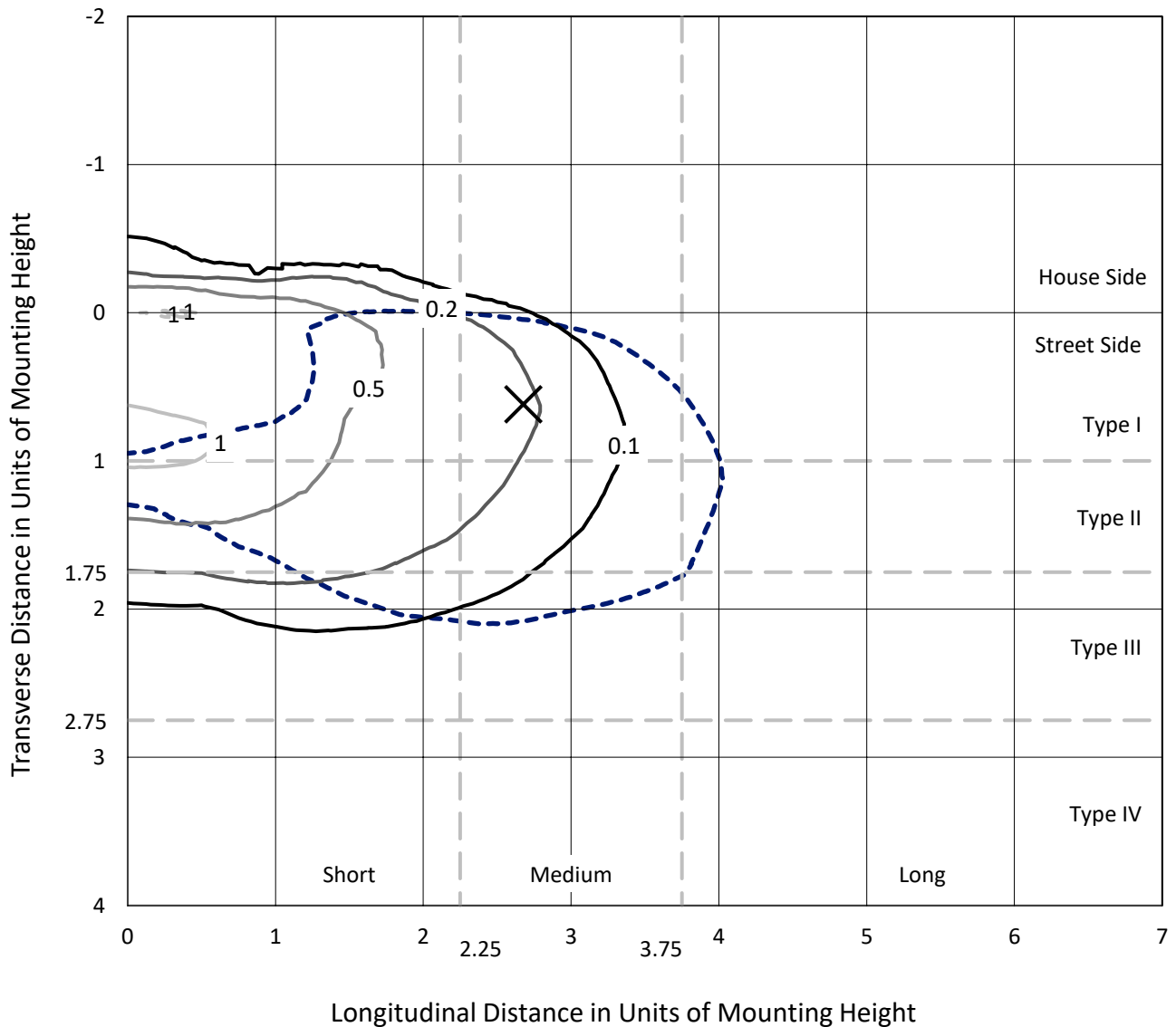
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

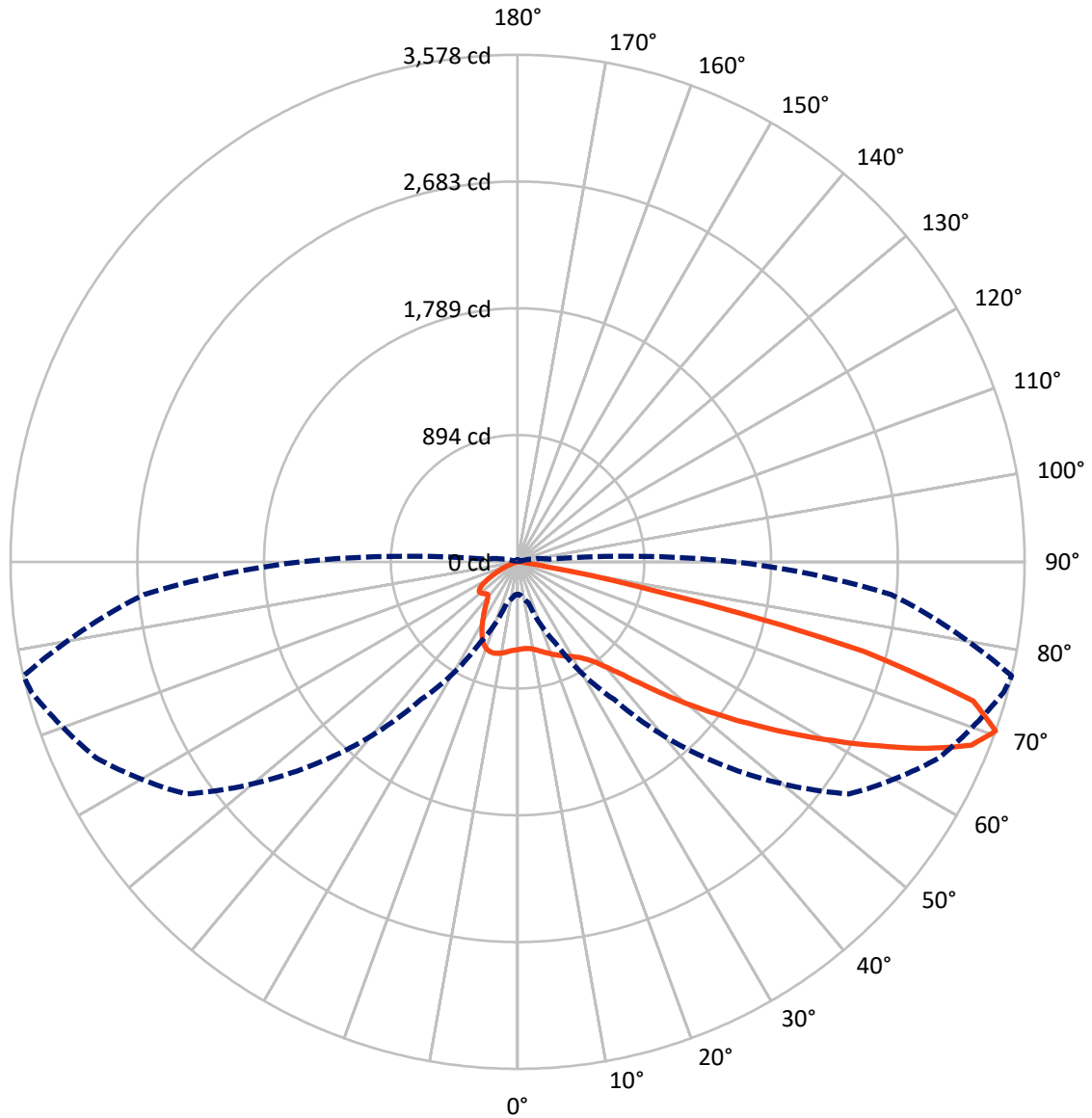
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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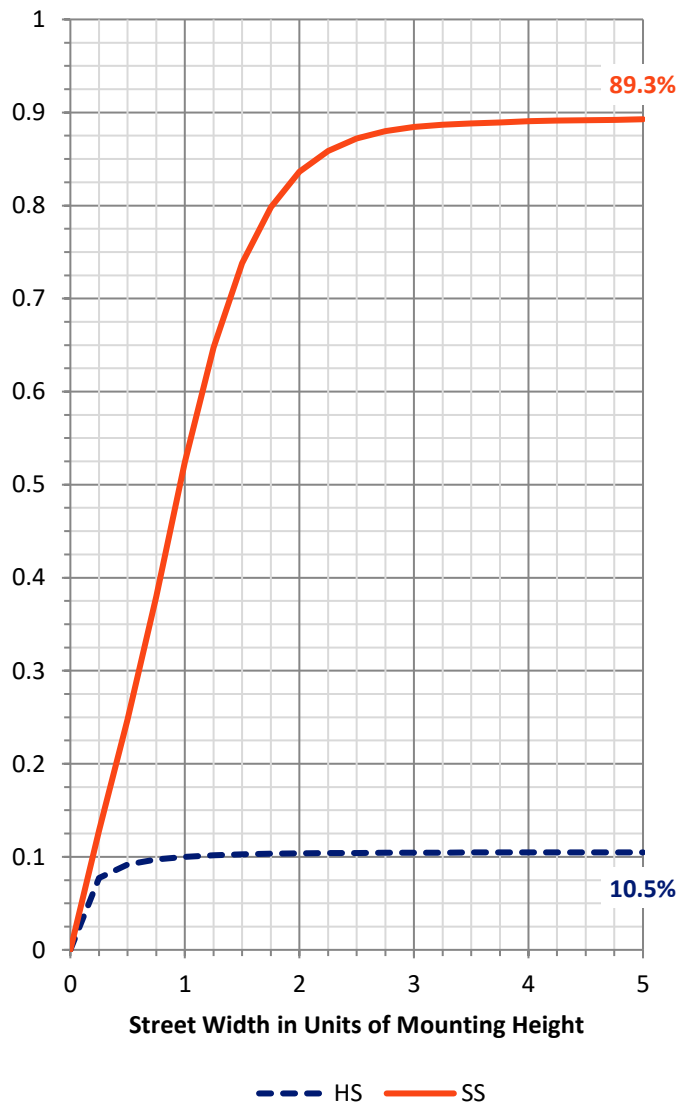
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	418.6	0.0	418.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3552.3	0.0	3552.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	3970.8	0.0	3970.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.3
10°-20°	126.7	3.2
20°-30°	196.0	4.9
30°-40°	355.7	9.0
40°-50°	671.3	16.9
50°-60°	970.0	24.4
60°-70°	1032.6	26.0
70°-80°	547.2	13.8
80°-90°	18.0	0.5
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°	3970.8	100.0
0°-180°	3970.8	100.0

Coefficient of Utilization

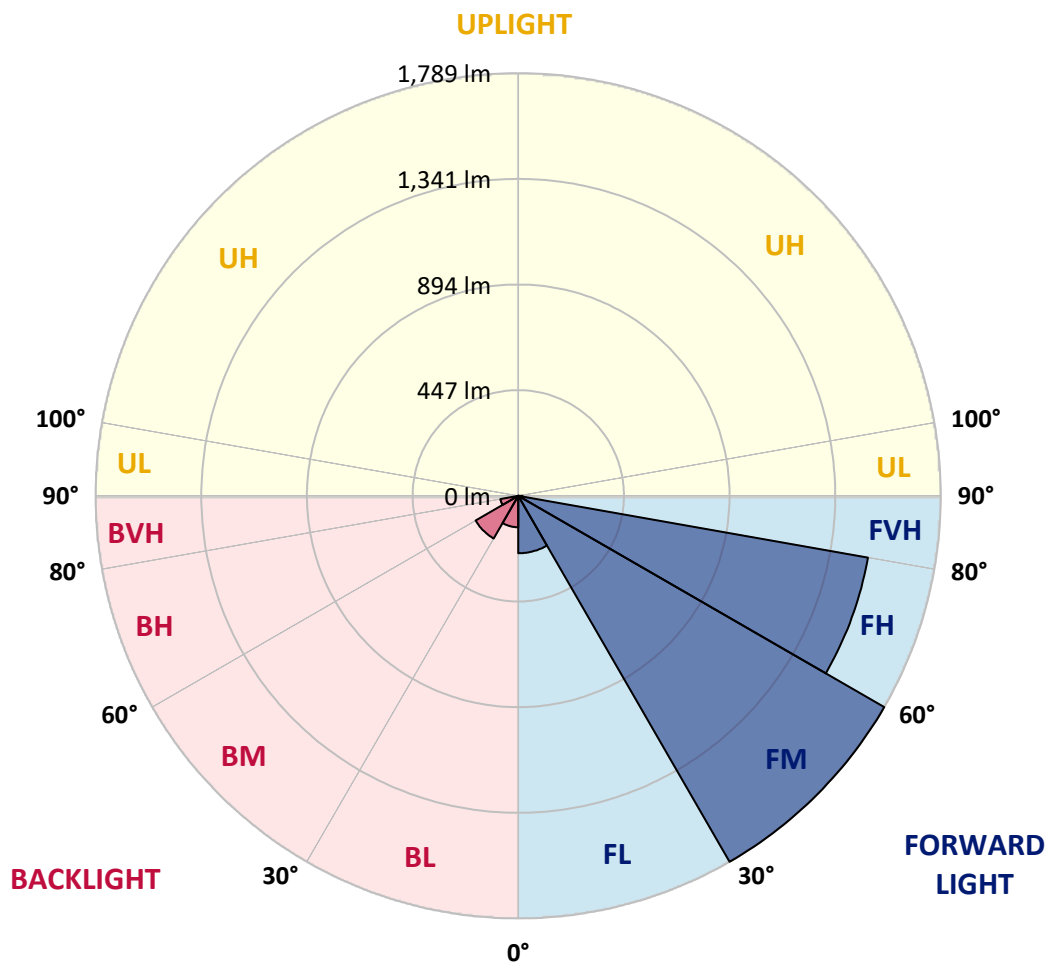


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.1	6.1			
FM (30°-60°)	1788.7	45.0			
FH (60°-80°)	1503.0	37.9			G1/1800
FVH (80°-90°)	17.5	0.4			G1/100
BL (0°-30°)	133.0	3.3	B1/500		
BM (30°-60°)	208.4	5.2	B0/220		
BH (60°-80°)	76.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
2.5°	581.5	586.8	586.0	589.6	590.8	595.8	600.9	607.6	615.1	614.9	619.9
5°	548.7	553.9	555.1	560.0	566.0	573.7	584.0	597.6	611.6	613.9	623.9
7.5°	509.8	515.3	518.5	528.1	539.2	555.1	571.9	591.8	615.1	618.4	637.7
10°	470.9	475.9	480.2	493.7	511.3	535.2	562.4	591.0	622.4	627.2	654.5
12.5°	446.9	451.6	456.4	468.2	489.9	519.1	556.2	594.6	634.5	641.2	677.3
15°	438.3	442.6	446.4	456.8	477.2	510.3	554.9	601.8	649.7	658.8	704.9
17.5°	439.6	441.9	444.3	452.3	472.2	506.2	557.2	614.4	667.8	675.8	732.5
20°	446.9	448.1	448.3	453.9	471.4	505.7	561.7	626.4	684.8	695.6	759.8
22.5°	456.1	456.6	456.1	459.9	476.2	509.5	567.7	640.9	703.9	713.9	787.4
25°	499.5	489.9	478.0	470.7	484.2	516.8	576.8	660.5	724.7	734.5	814.3
27.5°	634.2	606.8	563.8	515.3	500.8	527.4	589.3	680.3	745.8	754.5	843.1
30°	852.8	817.0	743.7	634.7	553.9	549.4	605.6	700.1	768.0	777.6	873.9
32.5°	1072.0	1063.2	978.8	827.8	673.5	598.6	632.6	726.9	797.7	805.2	915.5
35°	1293.7	1275.9	1206.6	1057.5	857.8	698.6	677.8	762.1	836.5	845.1	976.2
37.5°	1463.5	1452.6	1409.8	1286.9	1076.6	853.1	755.0	816.5	893.0	902.5	1053.9
40°	1613.4	1608.4	1593.9	1512.8	1321.0	1055.2	875.1	900.8	971.2	982.5	1149.2
42.5°	1731.2	1743.0	1751.3	1728.8	1573.1	1285.9	1036.7	1019.1	1080.2	1091.8	1270.6
45°	1851.9	1855.9	1889.3	1921.9	1823.3	1527.1	1218.7	1157.7	1216.0	1230.2	1416.0
47.5°	1929.4	1945.4	2004.1	2061.5	2033.7	1766.4	1414.3	1321.5	1373.2	1400.0	1579.0
50°	1935.1	1965.4	2046.2	2146.2	2186.9	1994.0	1627.0	1508.1	1563.0	1592.5	1753.1
52.5°	1839.1	1886.2	2011.4	2157.8	2269.7	2186.9	1846.8	1694.6	1765.2	1803.7	1933.7
55°	1410.0	1471.7	1880.3	2095.1	2272.9	2333.1	2061.0	1889.0	1990.3	2033.9	2128.7
57.5°	1228.5	1259.6	1478.3	1986.2	2212.5	2392.0	2254.6	2074.1	2235.3	2289.4	2313.0
60°	1022.1	1063.0	1239.7	1808.2	2130.5	2397.8	2425.7	2312.8	2500.8	2561.8	2482.0
62.5°	694.6	739.0	914.8	1502.3	2018.4	2395.0	2565.8	2558.5	2796.0	2861.4	2625.2
65°	430.3	458.2	574.0	1226.7	1861.6	2398.0	2712.5	2856.9	3107.4	3173.9	2736.0
67.5°	340.0	352.8	413.3	941.9	1591.6	2330.3	2858.9	3137.5	3400.5	3453.2	2770.0
70°	228.5	236.3	300.6	631.4	1184.1	2017.9	2856.2	3278.5	3551.5	3577.9	2646.5
72.5°	120.3	126.4	175.8	292.4	715.1	1434.4	2407.5	3110.0	3401.4	3361.7	2262.1
75°	60.2	70.2	118.4	148.4	305.4	799.9	1495.1	2451.9	2677.1	2523.7	1451.4
77.5°	45.6	55.1	97.8	97.8	106.3	269.3	633.1	1337.3	1233.5	1027.2	426.1
80°	29.1	37.6	85.5	74.0	44.4	68.5	165.0	374.6	262.1	199.4	77.5
82.5°	17.0	24.6	71.2	48.9	24.8	25.3	46.6	79.7	68.0	52.9	23.8
85°	6.8	16.1	48.9	19.3	9.7	6.3	14.0	17.0	14.0	10.6	6.0
87.5°	0.0	3.8	8.5	0.0	0.7	0.5	1.0	1.2	1.2	1.0	2.0
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°	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4	619.4
2.5°	622.2	622.7	624.1	624.4	620.8	616.3	614.6	613.9	610.9	610.6	611.1
5°	629.7	631.9	629.7	623.1	607.6	585.8	569.2	555.7	543.4	539.7	537.4
7.5°	644.7	647.0	640.2	614.6	575.5	532.1	493.0	465.5	440.5	431.3	427.5
10°	666.2	669.3	648.0	596.3	527.1	457.4	391.1	344.5	308.2	293.4	287.1
12.5°	693.3	694.6	652.2	568.5	464.1	364.6	270.8	220.9	188.6	176.5	172.8
15°	723.2	721.4	652.7	530.6	378.4	257.8	176.8	145.1	132.1	128.1	128.1
17.5°	754.5	747.2	642.7	475.9	284.3	176.3	131.1	123.6	121.4	120.3	120.1
20°	785.4	769.1	624.4	404.5	204.1	131.6	119.1	116.8	115.6	115.1	114.6
22.5°	813.4	785.7	593.1	321.4	148.2	116.3	112.5	110.6	108.3	107.3	107.1
25°	840.8	795.2	548.9	244.0	118.6	108.9	105.8	102.1	99.0	97.8	97.3
27.5°	867.4	801.1	493.7	180.5	105.8	101.8	96.2	91.0	88.8	88.3	87.7
30°	895.7	803.2	431.0	134.7	98.1	93.1	85.0	79.0	77.7	78.0	78.0
32.5°	930.3	806.2	367.9	110.3	91.5	82.5	73.0	66.7	65.7	66.7	66.4
35°	971.7	812.2	306.9	101.6	85.8	71.8	61.4	56.2	55.1	56.0	55.7
37.5°	1027.9	821.9	250.0	99.8	81.0	62.7	51.7	47.4	47.4	47.7	47.4
40°	1102.6	848.1	199.1	98.5	78.5	56.0	43.7	41.9	42.6	43.2	43.2
42.5°	1193.6	903.5	164.7	97.1	75.7	52.9	39.7	38.8	40.1	40.6	40.6
45°	1295.7	973.7	152.7	94.5	73.2	54.9	37.8	36.9	38.3	38.6	38.8
47.5°	1401.3	1042.4	151.2	91.7	70.7	57.9	37.4	35.2	36.9	37.1	37.4
50°	1508.1	1087.3	152.7	87.5	66.7	57.9	37.6	33.3	34.8	35.6	35.9
52.5°	1615.7	1107.8	151.7	78.2	59.7	54.4	37.6	31.9	33.3	33.8	33.8
55°	1720.0	1103.8	136.4	64.5	50.6	48.2	36.6	30.5	31.6	31.9	31.9
57.5°	1802.5	1048.0	108.0	50.1	41.1	40.1	33.3	29.1	29.8	29.6	29.6
60°	1845.6	925.1	77.3	38.6	32.4	31.6	29.3	27.1	27.6	26.3	26.0
62.5°	1846.1	762.6	51.7	30.5	25.8	25.1	25.1	24.3	23.8	21.3	20.6
65°	1806.8	582.3	34.3	24.3	20.8	19.6	21.1	20.8	19.1	15.6	15.1
67.5°	1717.5	381.7	26.0	19.1	16.1	15.3	16.8	17.5	16.3	13.0	12.8
70°	1533.9	222.2	21.5	14.8	12.0	11.3	13.5	15.1	13.5	10.6	10.0
72.5°	1274.1	119.8	17.5	11.1	8.3	7.5	10.8	12.3	10.8	7.8	7.5
75°	826.8	64.2	13.5	7.3	4.3	4.7	8.0	9.0	7.5	5.0	4.5
77.5°	277.6	28.3	8.5	3.5	2.0	2.0	4.7	5.5	3.5	1.7	1.5
80°	61.9	11.8	3.5	1.5	0.7	0.7	1.0	1.0	0.5	0.0	0.0
82.5°	20.3	4.7	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.2	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)