

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: P960282

Luminaire Tested: **NAV-SB1C-727-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-727-U-SL4-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

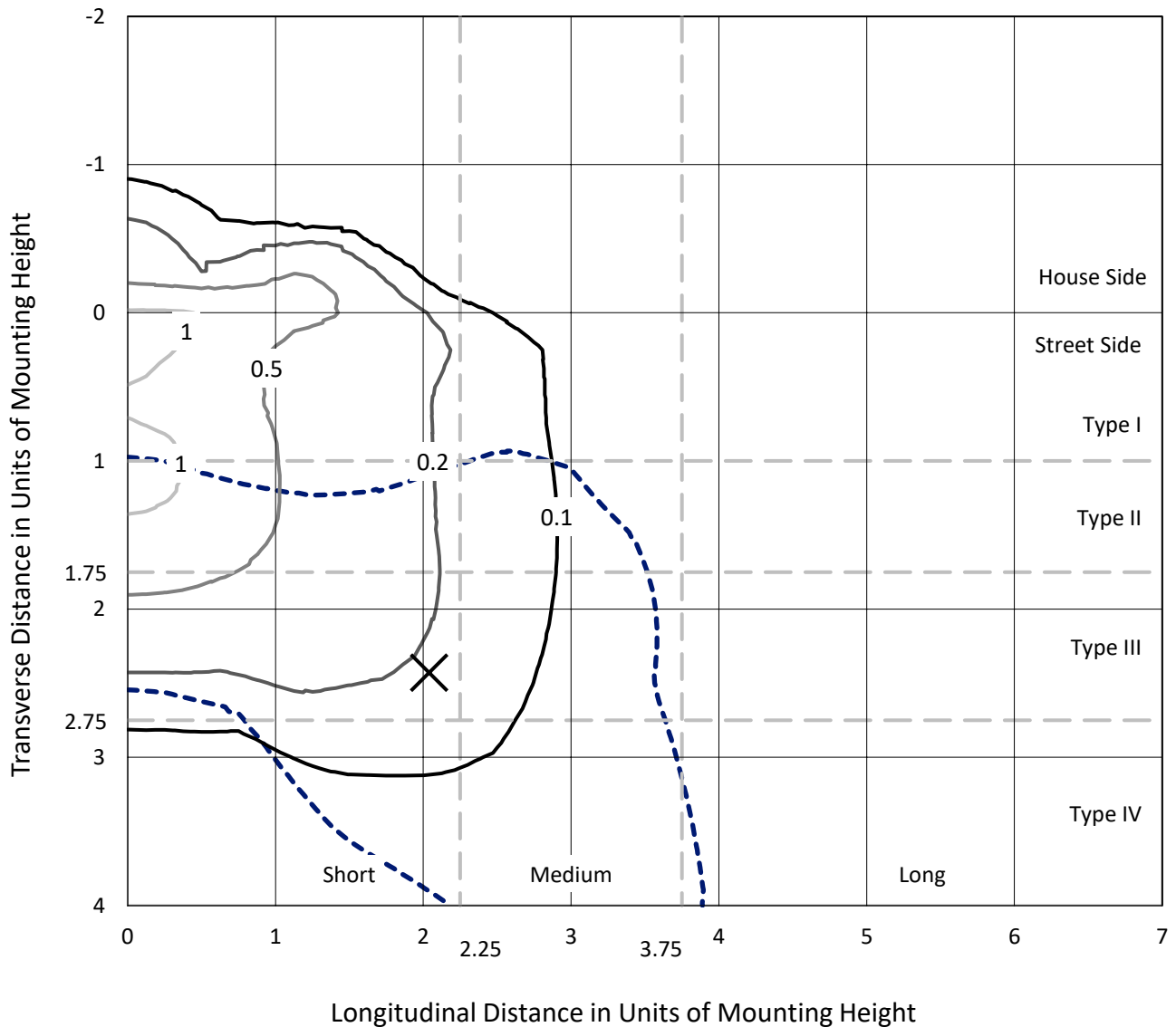
Lumens per Lamp: N/A  
Luminaire Lumens: 4972.3 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

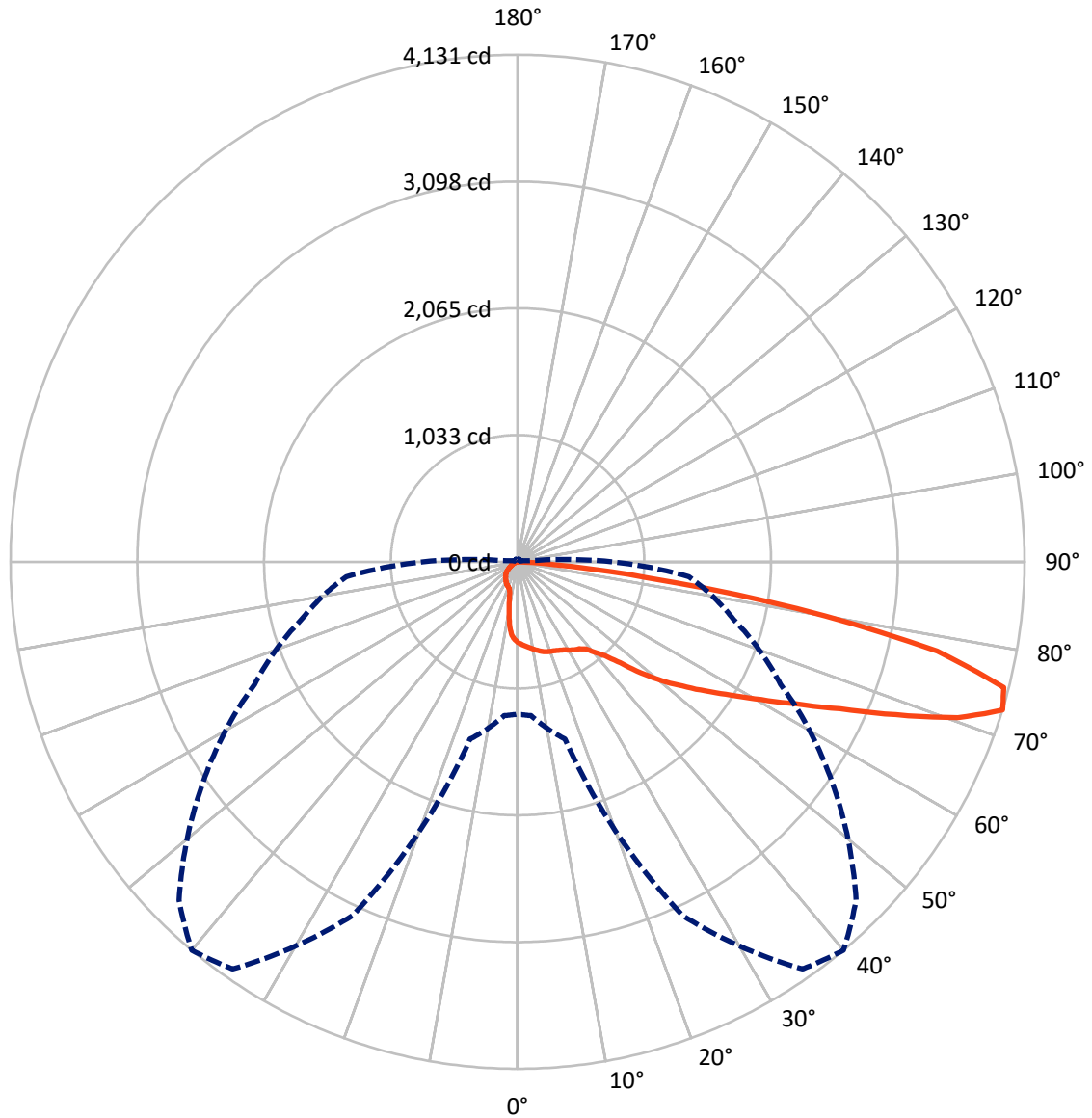
✕ Max cd  
 - - - 1/2 Max cd



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

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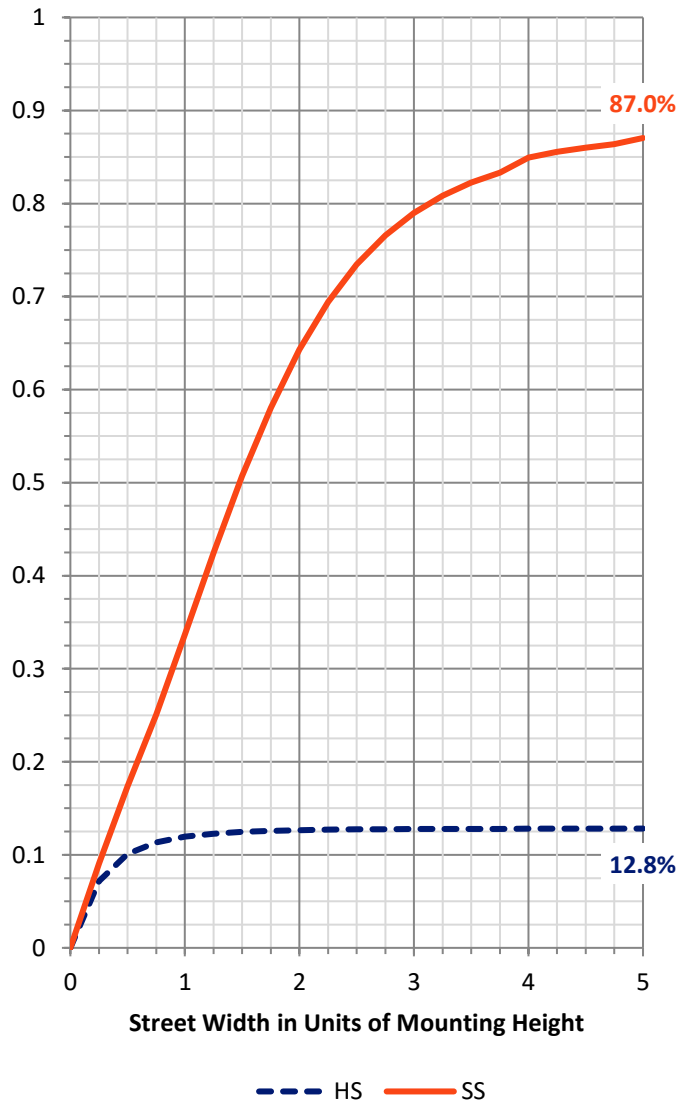
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	642.1	0.0	642.1
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	4330.2	0.0	4330.2
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	4972.3	0.0	4972.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	1.2
10°-20°	163.3	3.3
20°-30°	264.2	5.3
30°-40°	390.1	7.8
40°-50°	656.5	13.2
50°-60°	1019.3	20.5
60°-70°	1275.5	25.7
70°-80°	1044.3	21.0
80°-90°	99.0	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°	4972.3	100.0
0°-180°	4972.3	100.0

**Coefficient of Utilization**

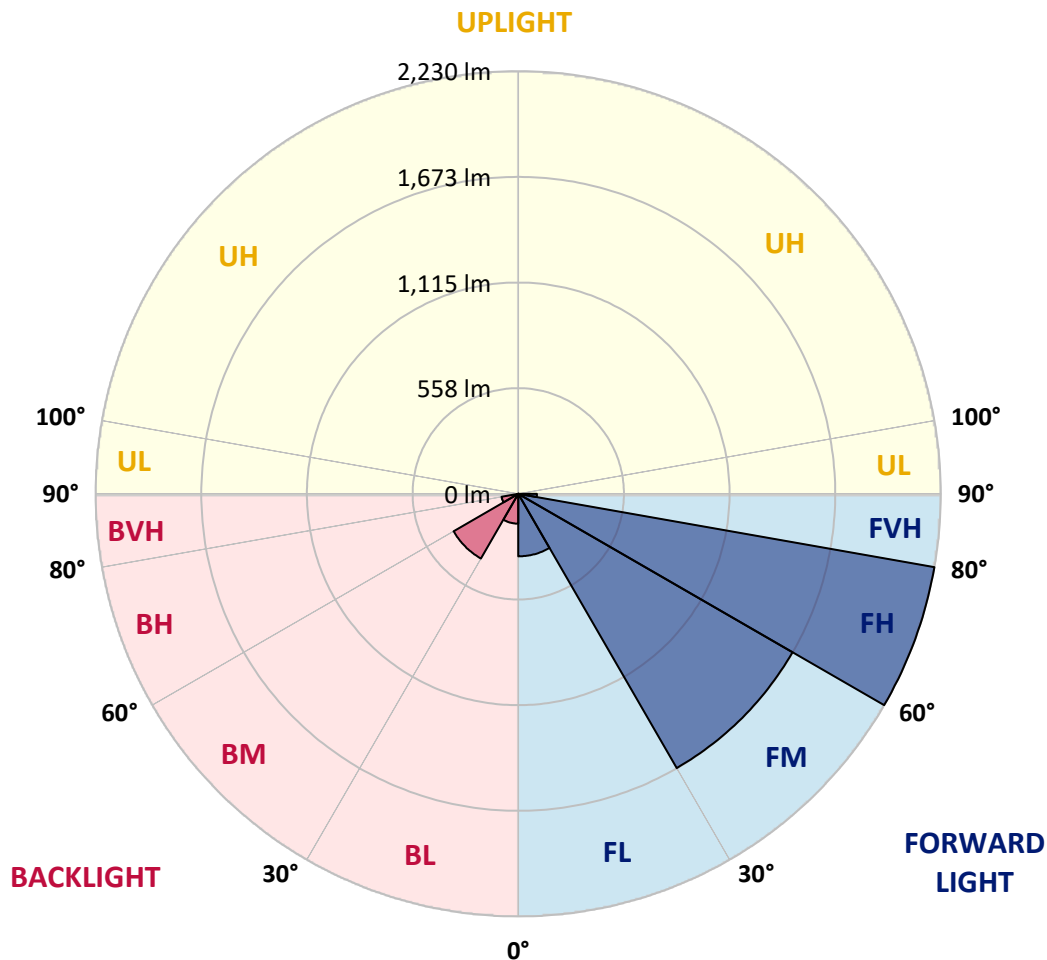


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	330.0	6.6			
FM (30°-60°)	1671.6	33.6			
FH (60°-80°)	2230.3	44.9			G2/5000
FVH (80°-90°)	98.3	2.0			G1/100
BL (0°-30°)	157.6	3.2	B1/500		
BM (30°-60°)	394.3	7.9	B1/1000		
BH (60°-80°)	89.5	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°	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4
2.5°	678.2	680.8	679.4	676.3	675.6	674.1	672.2	671.5	668.8	666.6	664.0
5°	697.3	700.0	698.0	693.9	692.1	690.2	687.6	685.3	680.1	675.3	669.2
7.5°	718.3	720.6	718.3	712.3	709.3	707.0	703.4	700.0	693.9	686.9	679.4
10°	741.5	743.3	740.0	732.2	727.2	724.0	720.6	716.8	711.1	703.4	694.3
12.5°	763.2	765.5	760.2	750.9	745.3	741.9	738.1	735.1	729.5	722.0	712.7
15°	783.1	786.5	777.5	767.3	761.0	758.4	754.6	752.8	749.0	743.7	735.1
17.5°	798.1	800.3	791.0	779.0	771.8	770.0	767.3	768.4	767.7	765.1	759.5
20°	810.8	812.3	799.9	785.4	777.5	777.9	777.1	780.8	782.3	782.3	782.0
22.5°	826.6	826.9	811.2	792.8	783.4	786.1	787.2	791.3	794.3	797.3	804.0
25°	847.2	846.3	827.7	802.6	794.3	798.1	800.7	802.2	805.5	810.4	825.7
27.5°	877.8	875.6	851.6	818.3	808.5	811.9	816.8	816.0	814.6	818.3	844.1
30°	916.8	913.8	881.9	840.4	831.4	834.4	835.9	829.1	818.3	821.6	860.2
32.5°	978.6	973.3	929.2	865.1	851.3	854.6	852.7	838.9	822.8	826.2	876.4
35°	1086.1	1073.3	1010.8	916.8	873.7	869.9	865.5	852.0	832.1	828.8	889.8
37.5°	1314.5	1292.0	1185.3	1017.5	924.7	900.3	886.4	873.0	842.2	828.8	905.2
40°	1572.1	1549.3	1426.1	1186.0	1009.3	968.1	935.1	897.7	852.7	833.6	929.2
42.5°	1841.0	1816.0	1689.4	1395.0	1130.3	1045.6	984.2	917.5	869.9	848.6	960.9
45°	2141.4	2110.0	1944.4	1612.9	1305.8	1174.4	1063.2	958.4	900.0	875.2	1004.4
47.5°	2458.3	2417.4	2198.7	1824.6	1495.0	1352.7	1207.8	1031.4	944.1	914.9	1063.2
50°	2739.1	2698.6	2461.2	2045.9	1671.8	1522.3	1372.6	1132.5	1010.4	971.1	1142.3
52.5°	2940.9	2910.3	2700.2	2274.4	1855.7	1681.5	1521.9	1250.1	1094.3	1042.9	1235.4
55°	3076.1	3048.0	2869.4	2490.8	2069.5	1856.8	1669.1	1377.8	1195.4	1129.1	1338.4
57.5°	3158.1	3142.0	2991.9	2684.1	2281.4	2048.5	1837.6	1518.2	1314.5	1230.6	1453.4
60°	3187.3	3174.2	3067.9	2868.3	2537.6	2278.8	2035.8	1676.6	1459.1	1345.9	1571.4
62.5°	3109.4	3112.1	3122.6	3086.6	2807.6	2548.5	2273.2	1866.8	1619.3	1476.6	1682.2
65°	2742.8	2764.5	2963.8	3328.6	3165.3	2886.3	2575.4	2099.1	1802.9	1625.3	1770.3
67.5°	2271.0	2302.5	2550.3	3470.1	3546.5	3324.8	2996.4	2394.9	2021.5	1776.6	1803.6
70°	1738.4	1772.1	2072.4	3440.5	3903.4	3804.2	3516.9	2771.3	2248.1	1881.5	1718.6
72.5°	1240.8	1258.0	1494.7	3177.3	4049.9	4130.8	3900.4	3127.8	2363.9	1823.5	1401.8
75°	871.9	868.8	1025.7	2558.6	3821.8	4091.0	3766.0	2935.0	2139.2	1448.5	864.4
77.5°	379.8	380.5	512.3	1553.8	3050.3	3494.1	3130.5	1838.4	1491.3	767.7	364.8
80°	98.5	101.5	188.0	618.7	1836.6	2306.1	1909.2	808.2	689.1	187.3	69.7
82.5°	34.8	37.1	86.5	194.3	677.4	1057.6	850.1	258.4	179.8	53.5	18.8
85°	10.1	12.0	46.4	59.6	140.0	298.9	206.3	50.2	44.2	27.7	4.8
87.5°	0.0	1.5	9.3	8.2	8.2	5.6	10.5	5.6	7.1	3.4	1.5
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°	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4
2.5°	661.7	659.1	653.5	647.5	641.9	636.6	635.2	629.6	626.9	627.3	626.9
5°	665.1	660.2	649.3	636.3	622.8	607.4	594.7	576.8	561.4	559.5	558.4
7.5°	674.1	666.2	648.6	623.2	589.5	547.1	507.8	468.8	446.8	434.8	434.1
10°	688.0	677.4	650.5	601.8	530.3	454.7	395.1	346.0	320.9	309.3	307.1
12.5°	704.5	692.8	653.5	565.5	453.9	354.6	290.3	260.2	255.0	254.3	253.9
15°	727.6	714.9	656.9	516.4	371.2	270.0	240.5	240.8	244.9	247.1	246.8
17.5°	753.5	740.8	652.0	456.5	289.5	230.7	229.9	233.3	239.3	241.6	241.2
20°	779.7	767.7	634.8	386.1	234.1	219.9	222.8	226.5	232.6	235.5	235.5
22.5°	806.7	796.2	607.4	311.2	211.3	212.0	215.8	219.5	226.2	229.6	229.6
25°	835.5	826.6	571.1	249.4	201.5	203.8	208.6	213.1	220.2	224.4	224.4
27.5°	864.7	858.0	529.9	208.2	192.5	195.2	200.7	206.7	213.8	218.7	219.0
30°	896.6	892.8	496.9	192.9	183.9	186.1	192.5	199.3	207.0	213.1	213.8
32.5°	929.2	928.3	480.8	204.1	176.0	177.5	183.2	189.8	199.6	207.0	207.9
35°	961.3	962.9	471.5	236.0	173.4	169.2	173.0	179.0	190.6	200.0	201.5
37.5°	1002.6	1006.2	471.1	270.4	179.8	161.0	163.7	167.8	177.8	188.7	190.6
40°	1063.9	1083.8	495.1	300.0	191.0	153.5	154.3	155.1	160.3	169.2	172.3
42.5°	1145.6	1203.7	581.6	320.2	195.5	146.8	144.2	140.0	139.3	144.2	146.8
45°	1247.1	1348.6	733.7	331.4	191.0	139.3	132.2	121.4	117.3	120.5	120.5
47.5°	1366.5	1507.4	913.8	334.0	183.5	130.0	117.3	103.0	99.6	100.8	100.3
50°	1483.0	1626.5	1072.1	312.3	171.2	118.0	100.8	88.8	86.5	86.9	86.9
52.5°	1586.0	1667.3	1117.1	261.1	154.7	103.3	86.5	78.3	76.8	76.8	76.4
55°	1654.1	1623.1	996.2	199.6	134.1	88.4	74.1	70.0	69.3	68.9	68.2
57.5°	1668.4	1479.3	752.3	144.2	104.9	74.5	65.9	63.7	62.2	60.7	60.0
60°	1617.4	1239.6	479.0	100.8	78.6	63.7	58.4	56.9	53.9	50.9	49.8
62.5°	1507.4	936.2	265.2	70.0	63.2	54.3	51.7	49.8	44.2	39.4	37.8
65°	1359.5	622.4	117.3	54.6	51.7	45.7	44.2	41.6	34.8	29.2	28.1
67.5°	1210.7	358.4	52.8	43.8	41.6	37.4	36.3	34.4	29.6	24.3	23.6
70°	1041.1	181.6	36.3	34.8	32.2	28.5	29.6	29.2	24.3	19.9	19.1
72.5°	775.2	90.3	27.4	26.2	23.3	20.2	24.3	24.0	19.1	15.0	14.2
75°	438.9	44.6	19.9	18.3	13.8	15.0	19.5	18.3	13.1	9.7	9.0
77.5°	174.1	22.9	13.1	11.3	8.2	10.1	14.2	12.4	6.8	4.1	3.8
80°	40.1	11.3	6.8	4.8	3.8	5.9	7.5	4.5	1.8	0.4	0.0
82.5°	11.3	4.8	2.3	1.8	1.8	2.3	1.8	0.7	0.0	0.0	0.0
85°	3.8	2.3	0.7	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	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)