

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: P959205

Luminaire Tested: **NAV-SB1A-722-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-722-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3217.5 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

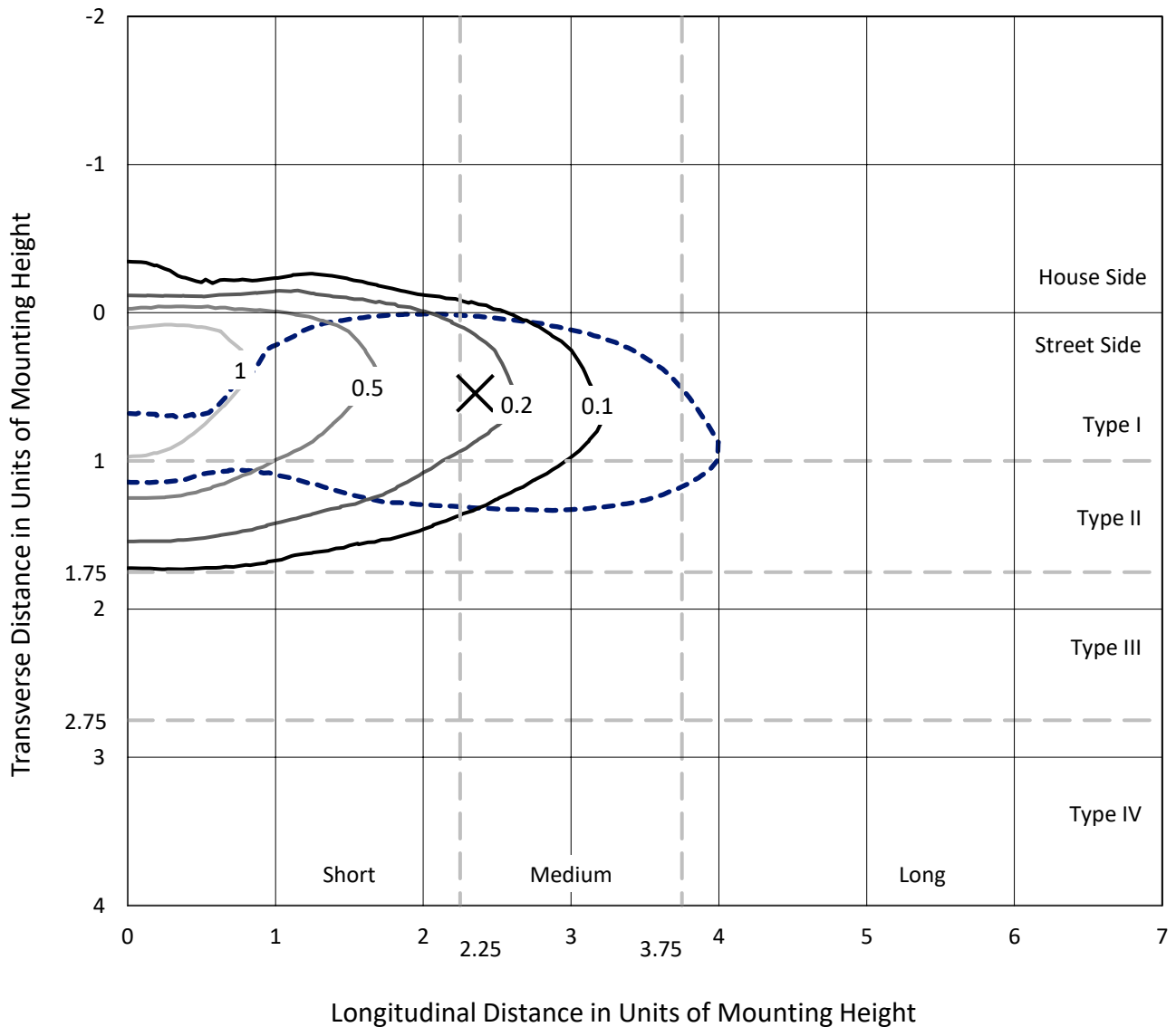
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

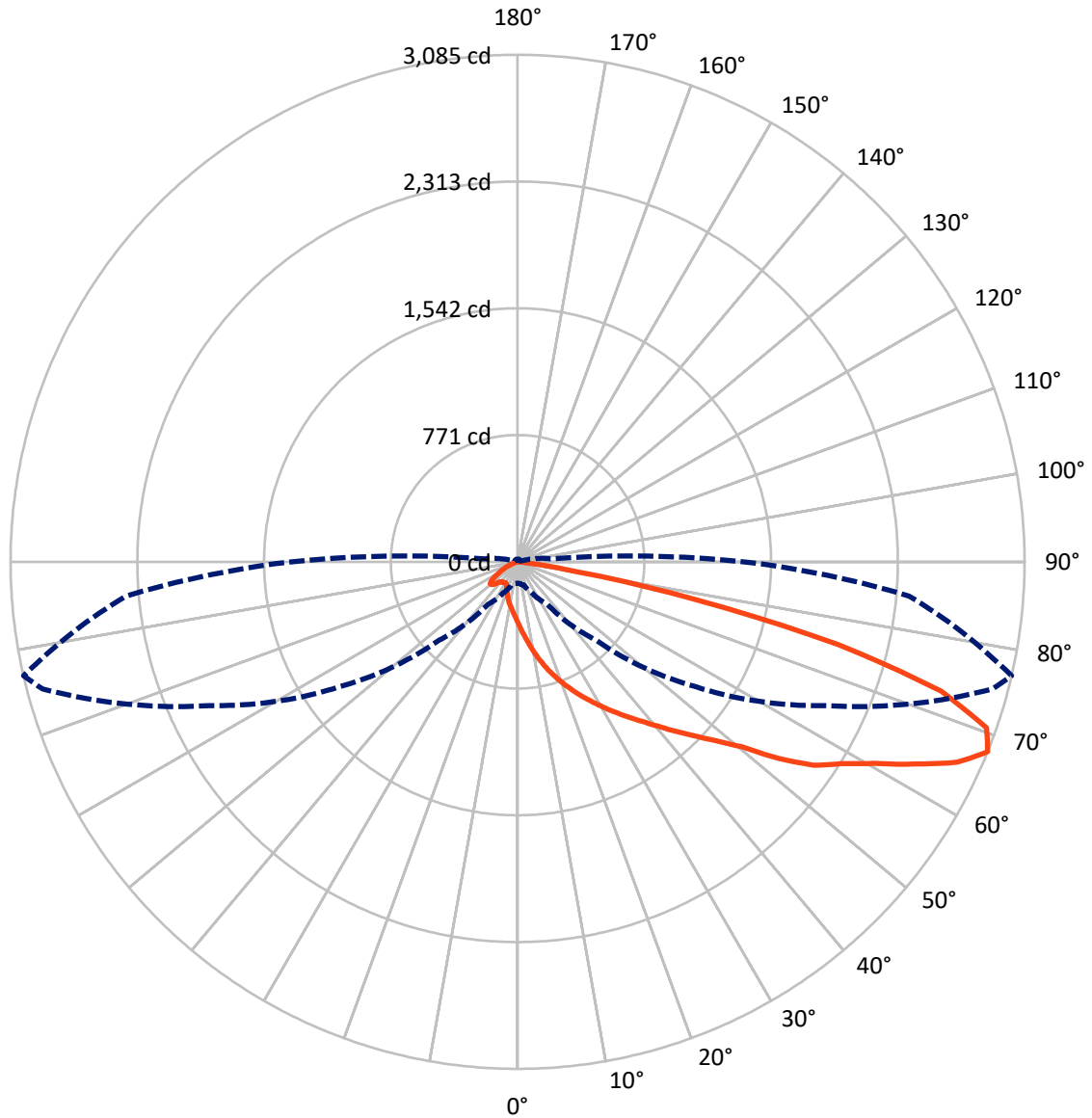
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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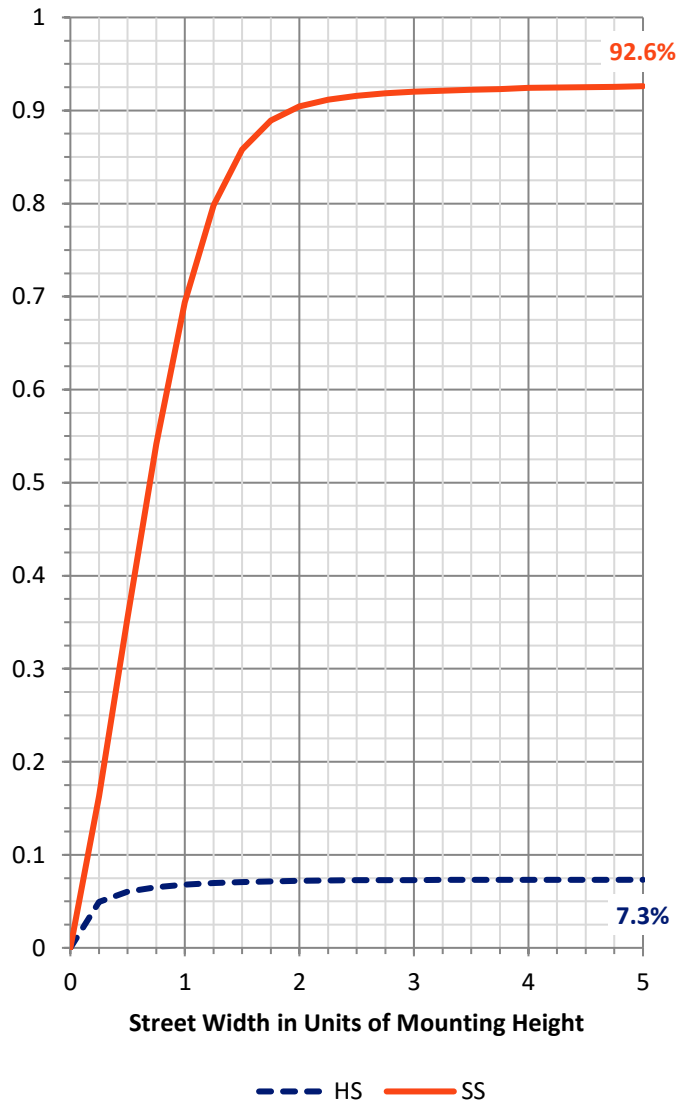
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	236.7	0.0	236.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	2980.7	0.0	2980.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	3217.5	0.0	3217.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.9	1.2
10°-20°	132.6	4.1
20°-30°	255.9	8.0
30°-40°	444.3	13.8
40°-50°	645.0	20.0
50°-60°	740.8	23.0
60°-70°	643.1	20.0
70°-80°	302.9	9.4
80°-90°	15.0	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°	3217.5	100.0
0°-180°	3217.5	100.0

**Coefficient of Utilization**

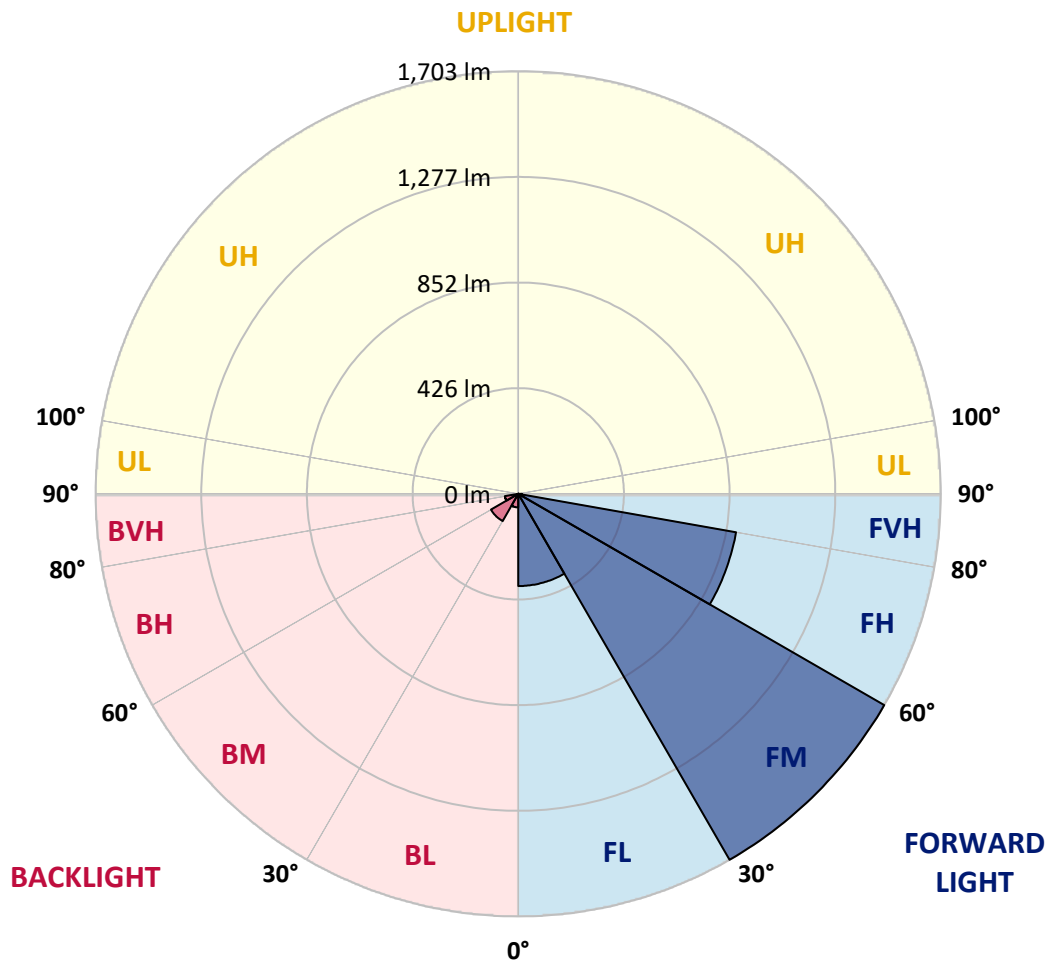


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.6	11.5			
FM (30°-60°)	1703.2	52.9			
FH (60°-80°)	891.2	27.7			G1/1800
FVH (80°-90°)	14.7	0.5			G1/100
BL (0°-30°)	54.8	1.7	B0/110		
BM (30°-60°)	126.8	3.9	B0/220		
BH (60°-80°)	54.8	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0
2.5°	513.6	516.9	512.3	503.5	490.3	481.7	460.7	441.0	419.0	411.9	390.0
5°	626.2	628.9	623.8	614.2	596.6	579.8	552.3	510.9	467.9	454.2	415.2
7.5°	709.5	711.0	709.1	700.3	683.5	664.5	633.8	584.8	521.1	505.8	446.2
10°	769.5	774.6	774.0	770.6	759.4	744.0	711.2	655.5	580.6	561.0	481.1
12.5°	809.1	815.0	818.4	825.9	825.3	815.6	786.8	727.9	639.9	616.9	520.5
15°	820.7	827.0	840.0	857.5	873.1	878.1	857.9	798.8	705.3	675.9	560.9
17.5°	814.2	823.8	839.4	867.2	901.3	923.8	921.7	867.4	764.6	731.0	600.3
20°	828.7	837.9	850.1	873.5	913.3	954.3	970.6	932.9	823.6	788.4	642.0
22.5°	909.5	907.8	909.1	912.9	936.6	977.2	1011.0	992.4	881.9	845.9	685.9
25°	1037.3	1030.1	1017.9	997.4	991.4	1011.0	1046.1	1045.1	943.4	904.9	730.8
27.5°	1184.0	1182.7	1154.3	1104.6	1076.7	1069.1	1085.9	1096.4	1004.4	963.2	776.0
30°	1324.4	1327.7	1289.0	1233.9	1182.6	1152.8	1137.6	1145.2	1066.3	1026.1	822.6
32.5°	1446.7	1450.2	1408.1	1343.7	1280.1	1244.1	1212.2	1193.4	1133.9	1090.1	873.7
35°	1550.0	1553.4	1505.3	1434.0	1366.2	1333.6	1297.4	1246.1	1201.8	1161.0	930.7
37.5°	1642.4	1641.3	1576.8	1504.9	1438.4	1412.6	1393.6	1311.1	1271.7	1232.4	993.7
40°	1696.9	1701.1	1645.9	1566.6	1502.0	1483.3	1482.0	1391.5	1352.4	1314.3	1062.9
42.5°	1712.9	1720.3	1680.3	1615.2	1556.6	1536.3	1567.6	1478.7	1446.4	1409.2	1141.0
45°	1684.1	1691.2	1673.1	1627.9	1593.8	1580.6	1641.1	1569.0	1546.6	1509.8	1229.2
47.5°	1600.1	1609.1	1613.6	1603.9	1603.6	1616.9	1707.0	1664.1	1665.7	1628.1	1331.3
50°	1437.8	1452.9	1493.3	1527.2	1579.8	1645.7	1771.2	1767.2	1800.0	1767.6	1464.3
52.5°	1142.5	1164.0	1303.1	1395.9	1514.0	1640.3	1841.7	1932.6	2035.5	1988.2	1651.9
55°	918.1	918.1	1031.1	1205.0	1385.8	1604.7	1872.5	2040.2	2196.0	2184.8	1784.0
57.5°	748.5	757.5	829.5	983.2	1200.2	1520.1	1891.4	2107.6	2325.2	2317.0	1913.1
60°	462.0	481.3	617.6	769.3	989.0	1369.2	1879.4	2176.0	2482.0	2488.7	2068.4
62.5°	260.1	267.3	328.1	553.4	769.1	1166.4	1787.8	2214.1	2682.6	2710.6	2228.8
65°	179.6	183.2	206.6	344.4	533.1	928.6	1608.5	2190.3	2883.6	2940.2	2364.6
67.5°	130.5	132.2	146.9	210.4	316.3	673.3	1327.7	2070.5	2990.1	3084.6	2390.6
70°	100.3	101.5	112.1	138.3	186.9	415.5	964.2	1832.1	2913.0	3025.9	2257.5
72.5°	81.5	82.7	90.9	102.3	123.9	245.8	584.5	1487.9	2572.5	2694.4	1921.9
75°	68.8	70.3	77.7	85.1	97.1	157.8	274.1	1036.2	1934.6	2014.5	1336.4
77.5°	38.1	35.2	63.1	70.5	81.9	99.9	128.2	609.8	1083.5	1105.7	593.0
80°	23.8	24.6	50.1	56.8	62.9	50.3	58.7	234.7	375.7	356.8	114.9
82.5°	1.4	3.2	38.5	41.0	43.2	21.6	22.1	79.7	90.5	83.1	20.4
85°	0.0	0.0	17.6	14.1	15.0	6.1	6.4	18.6	12.2	13.2	4.0
87.5°	0.0	0.0	0.0	0.4	0.0	0.6	1.2	1.6	0.6	0.8	1.4
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°	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0	371.0
2.5°	376.0	362.0	333.6	305.9	283.3	262.3	247.3	233.2	226.0	225.6	225.2
5°	387.4	358.0	301.2	251.1	210.7	178.5	157.4	142.5	134.9	132.2	131.8
7.5°	403.4	359.3	273.0	203.2	155.6	127.9	115.9	111.1	109.5	107.7	107.3
10°	423.5	362.0	247.5	163.6	122.7	108.6	103.9	101.9	100.7	99.5	99.1
12.5°	446.2	364.6	222.3	135.8	107.9	100.7	97.3	94.9	93.3	91.9	91.5
15°	468.1	366.2	196.2	116.4	100.3	94.5	90.9	88.4	86.1	84.6	84.4
17.5°	489.9	368.4	171.6	104.9	94.1	88.4	84.7	81.5	79.7	77.9	77.7
20°	514.0	368.0	148.4	96.7	87.9	82.1	78.3	75.3	73.5	71.5	71.3
22.5°	536.5	366.0	128.0	89.7	81.5	76.0	71.8	68.8	66.9	65.3	65.1
25°	562.2	364.4	111.1	83.3	75.5	69.9	65.3	62.5	60.6	59.1	58.9
27.5°	587.0	362.0	98.7	77.5	69.7	64.4	60.0	56.8	54.9	53.9	53.9
30°	611.4	361.4	94.1	72.0	64.6	59.1	54.7	51.8	50.3	49.9	49.7
32.5°	640.7	363.1	96.1	69.9	59.8	54.3	50.1	48.0	46.5	46.5	46.5
35°	672.1	362.6	99.1	71.8	56.6	49.5	46.3	45.0	43.6	43.6	43.6
37.5°	711.5	363.3	101.5	74.7	55.4	45.5	43.8	41.9	41.2	41.2	41.2
40°	770.2	383.0	100.3	77.3	54.9	42.7	39.2	38.5	37.9	37.9	37.9
42.5°	842.1	426.0	101.9	77.5	54.7	40.8	36.0	37.2	35.8	35.6	35.4
45°	920.9	472.9	112.1	73.3	54.5	39.8	34.3	35.8	33.5	33.5	33.5
47.5°	999.0	519.5	122.5	67.3	53.9	39.6	33.0	32.2	31.6	31.8	31.8
50°	1106.7	557.4	126.5	59.1	52.6	39.2	30.3	30.5	30.1	30.5	30.5
52.5°	1224.0	565.4	121.7	49.9	48.6	37.9	28.6	29.4	29.2	29.5	29.5
55°	1297.0	556.9	100.4	41.5	42.3	33.2	26.8	28.4	28.4	28.4	28.4
57.5°	1372.6	520.3	71.3	33.7	35.2	27.2	25.2	27.4	27.2	27.0	27.0
60°	1426.9	461.1	46.9	27.8	28.0	22.3	23.4	25.7	25.6	24.6	24.6
62.5°	1467.5	395.8	30.1	23.6	21.4	20.2	21.4	23.4	22.5	20.4	20.0
65°	1462.9	305.2	23.2	20.2	17.6	17.6	18.6	20.4	17.9	14.3	13.9
67.5°	1377.6	206.6	19.2	17.0	14.8	14.6	15.4	17.0	15.4	12.2	11.8
70°	1225.2	135.1	15.4	13.2	11.8	10.8	12.4	14.6	13.0	9.8	9.4
72.5°	994.4	82.3	11.6	9.6	8.6	7.0	9.8	12.0	10.4	7.2	6.8
75°	643.4	41.9	8.0	6.1	4.6	4.2	7.2	9.0	7.2	4.4	3.8
77.5°	246.1	17.6	4.4	2.8	2.4	1.9	4.0	5.4	3.0	1.0	0.8
80°	47.4	7.4	2.2	1.4	1.2	0.8	0.6	0.4	0.0	0.0	0.0
82.5°	8.2	2.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	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)