

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: P959195

Luminaire Tested: **NAV-SB1A-722-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3059.6 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

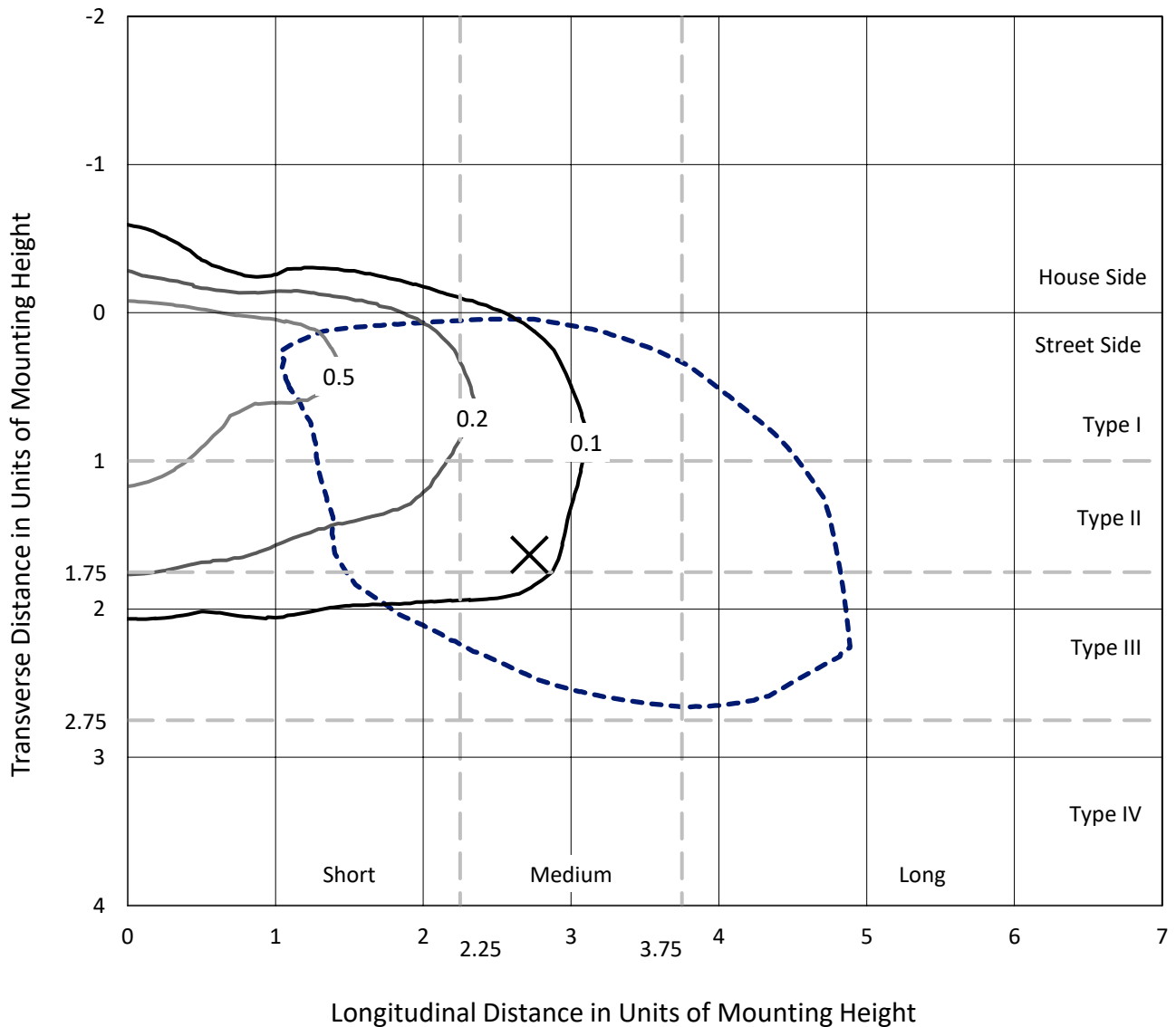
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

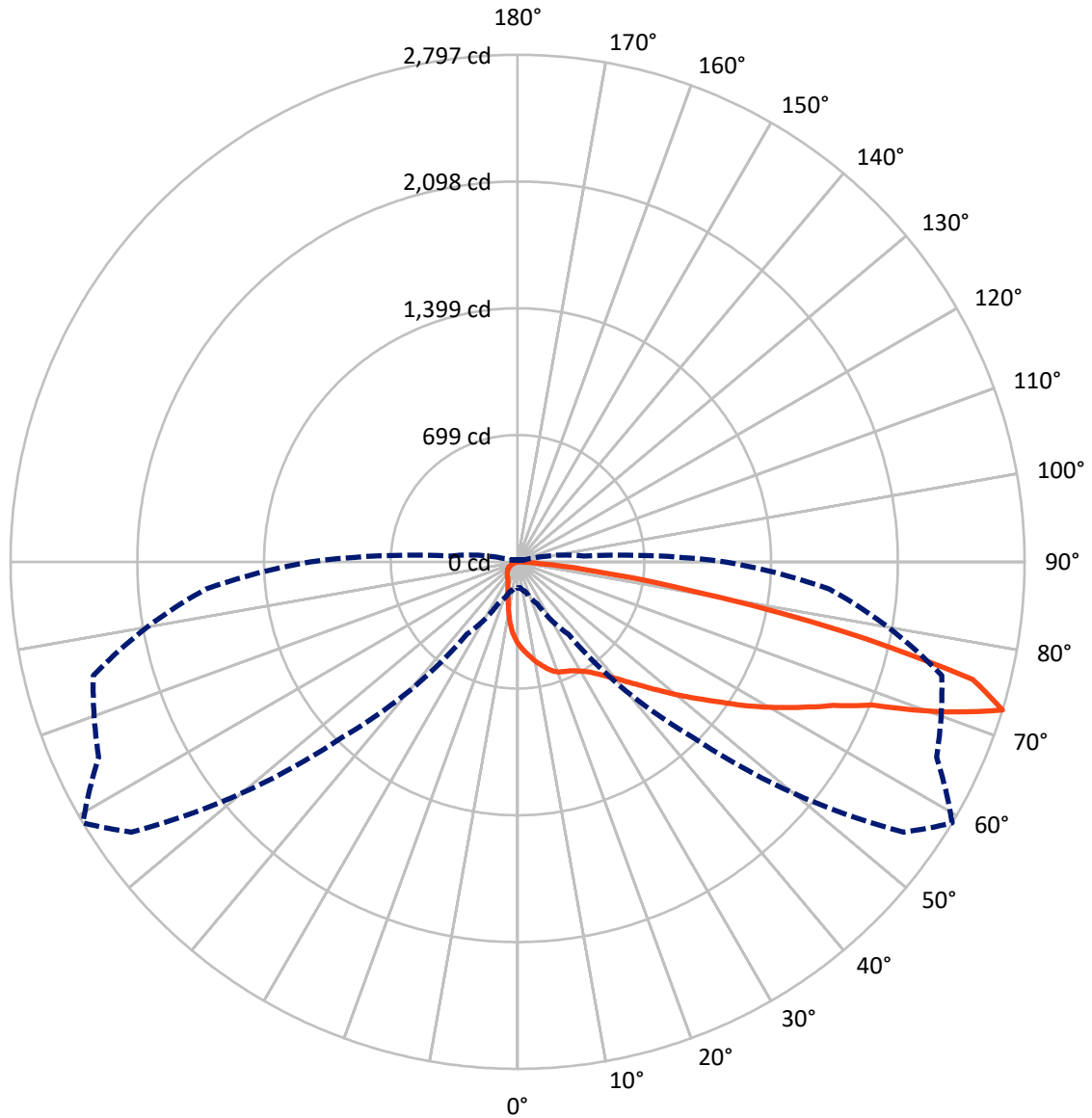
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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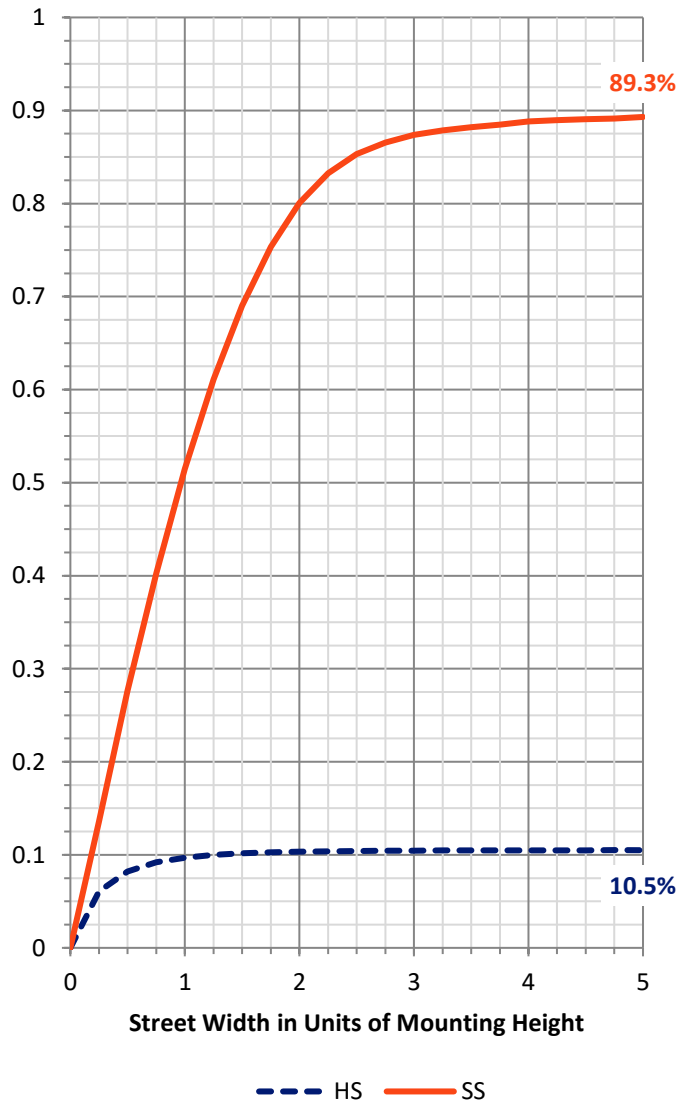
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.2	0.0	323.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2736.5	0.0	2736.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	3059.6	0.0	3059.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.3
10°-20°	108.7	3.6
20°-30°	172.3	5.6
30°-40°	276.5	9.0
40°-50°	441.7	14.4
50°-60°	639.5	20.9
60°-70°	758.9	24.8
70°-80°	563.4	18.4
80°-90°	57.6	1.9
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°	3059.6	100.0
0°-180°	3059.6	100.0

Coefficient of Utilization

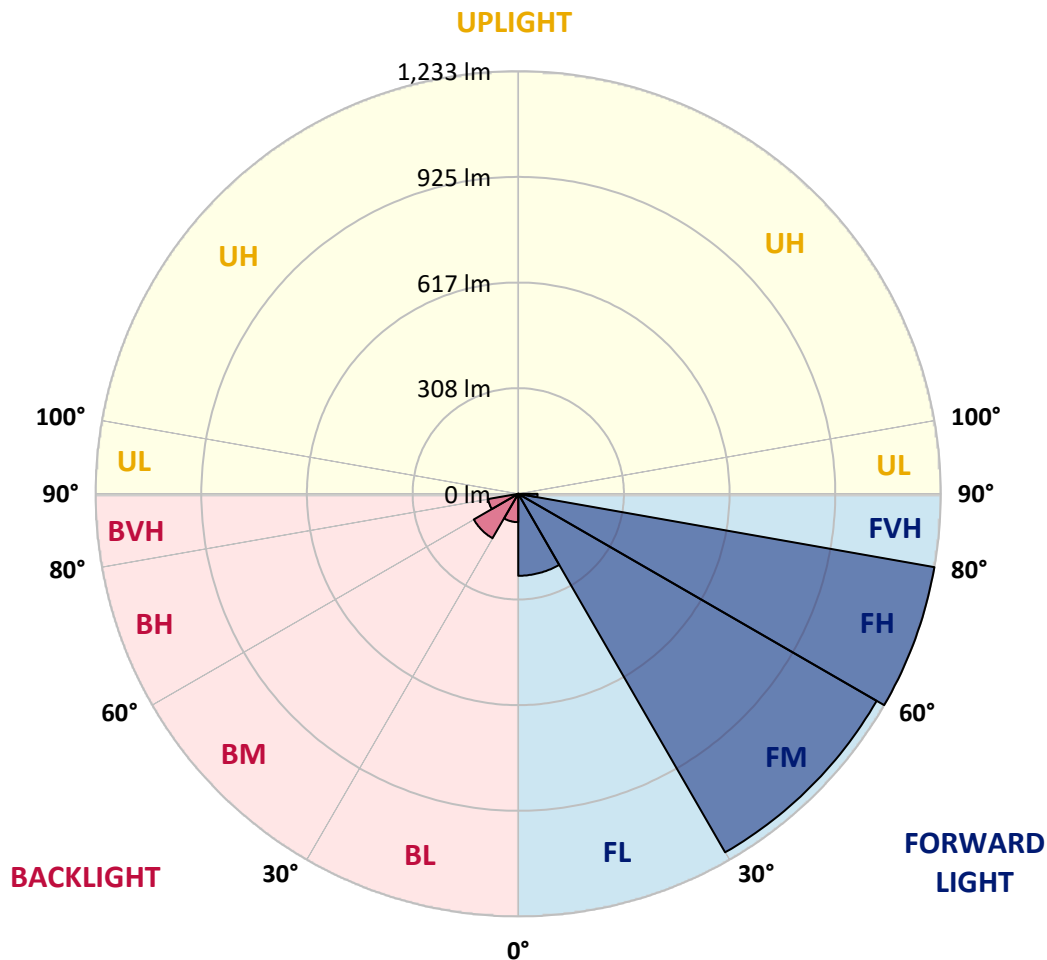


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.2	7.8			
FM (30°-60°)	1207.9	39.5			
FH (60°-80°)	1233.2	40.3			G1/1800
FVH (80°-90°)	56.2	1.8			G1/100
BL (0°-30°)	82.8	2.7	B0/110		
BM (30°-60°)	149.8	4.9	B0/220		
BH (60°-80°)	89.1	2.9	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: B0-U0-G1
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4
2.5°	501.9	499.2	499.6	494.8	491.4	487.8	480.8	479.8	474.8	466.1	457.0
5°	545.7	544.0	542.3	536.9	529.9	521.2	509.4	505.2	496.0	480.8	463.2
7.5°	577.7	575.5	576.3	570.9	565.3	555.6	539.4	531.6	519.4	496.2	469.7
10°	583.8	582.7	587.8	589.9	589.9	583.6	568.0	560.2	542.3	512.8	476.2
12.5°	549.1	549.3	562.3	577.9	598.3	604.0	593.5	585.1	567.5	530.3	484.6
15°	508.6	508.8	521.3	541.3	574.7	608.0	616.4	611.0	592.9	549.3	494.4
17.5°	484.2	483.2	491.6	508.0	542.9	589.9	630.5	634.1	619.2	570.3	505.2
20°	480.8	479.0	483.4	491.6	516.6	567.1	632.0	649.0	646.4	594.1	517.5
22.5°	501.6	498.8	496.4	496.8	507.4	548.2	628.0	657.4	674.3	622.7	534.5
25°	542.7	538.3	530.5	520.6	518.3	544.2	625.2	666.6	700.4	659.2	556.9
27.5°	593.1	586.9	571.9	556.9	544.2	555.3	631.0	681.2	729.7	701.7	582.9
30°	648.4	640.8	625.9	597.5	577.1	580.3	644.8	700.4	767.2	749.9	615.4
32.5°	729.7	712.2	685.9	642.6	615.6	607.2	665.6	724.7	813.8	814.0	662.6
35°	799.4	789.7	763.2	709.3	653.9	643.0	692.9	759.1	878.3	898.9	728.5
37.5°	845.2	831.8	808.6	768.0	713.5	679.8	729.5	801.2	946.7	995.6	809.9
40°	896.3	883.1	852.4	814.2	782.7	742.9	775.6	849.7	1021.5	1094.9	902.7
42.5°	958.1	940.8	904.5	863.4	830.4	825.9	836.0	910.3	1098.5	1202.7	999.4
45°	1030.5	1014.3	972.6	920.7	891.7	884.0	911.8	980.8	1184.2	1321.0	1097.1
47.5°	1098.5	1079.6	1034.7	987.4	955.2	930.7	992.6	1064.1	1281.2	1444.6	1189.3
50°	1156.2	1137.0	1095.8	1045.3	1023.6	991.4	1071.8	1157.0	1377.5	1570.3	1273.7
52.5°	1195.8	1178.8	1130.4	1096.0	1081.3	1065.1	1164.8	1255.4	1473.4	1685.3	1356.9
55°	1186.7	1171.6	1129.0	1126.6	1125.7	1142.6	1275.8	1367.1	1571.1	1794.2	1439.8
57.5°	1158.1	1141.0	1087.8	1124.4	1159.8	1211.8	1396.0	1499.2	1678.1	1896.9	1519.8
60°	1074.1	1068.0	1035.8	1120.2	1174.1	1279.4	1533.5	1631.8	1794.0	1987.2	1590.7
62.5°	896.1	901.3	901.1	1129.0	1200.2	1356.6	1658.3	1766.1	1907.2	2074.1	1653.7
65°	671.0	689.0	712.0	1049.9	1234.9	1494.1	1807.6	1911.6	2022.3	2175.2	1717.9
67.5°	450.9	465.2	480.8	861.3	1131.4	1638.8	2055.4	2111.2	2160.2	2287.2	1790.0
70°	258.1	262.7	284.4	537.9	872.2	1598.8	2459.2	2479.4	2365.7	2425.3	1842.5
72.5°	144.6	143.0	171.8	255.3	487.4	1369.1	2600.6	2797.3	2549.7	2423.0	1725.3
75°	96.7	96.9	118.3	161.0	189.9	958.4	2241.1	2593.9	2439.4	2148.6	1409.7
77.5°	65.9	68.2	86.9	124.4	87.8	467.6	1482.6	1817.0	1975.0	1659.2	973.2
80°	28.6	28.8	57.3	89.3	59.3	148.8	768.6	973.4	1238.7	931.6	385.5
82.5°	14.8	16.8	36.6	57.7	37.3	52.2	363.2	425.3	519.8	273.5	79.1
85°	5.2	6.1	22.5	28.4	18.8	18.6	126.5	128.8	110.1	41.1	21.7
87.5°	0.0	1.0	8.8	7.0	2.4	2.2	15.0	12.6	9.9	5.8	7.2
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°	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4
2.5°	452.8	447.4	438.7	427.8	415.3	408.5	398.7	392.7	387.3	387.6	392.0
5°	453.5	444.4	422.1	398.3	372.0	352.6	331.0	315.8	304.2	301.5	305.7
7.5°	455.2	440.0	403.5	364.0	320.0	287.4	257.7	238.9	228.4	225.5	228.4
10°	457.7	435.3	382.5	322.1	267.4	228.4	203.6	191.6	186.8	183.2	185.4
12.5°	459.6	430.3	356.2	278.7	220.7	190.1	171.4	161.4	157.2	154.6	156.0
15°	463.0	423.6	327.6	238.3	189.2	164.2	146.4	139.0	137.9	138.3	138.8
17.5°	466.5	417.3	295.6	206.7	165.9	141.4	130.7	129.5	131.0	132.6	133.2
20°	470.3	408.1	263.3	183.0	144.6	125.7	122.9	123.6	124.4	127.2	128.0
22.5°	475.8	396.5	234.9	162.8	126.9	118.1	116.6	117.3	117.9	120.6	121.5
25°	483.8	384.2	212.0	144.2	115.6	111.8	110.5	110.5	111.2	113.9	114.9
27.5°	492.2	366.5	193.3	127.0	109.1	105.1	102.7	102.7	103.6	106.7	107.8
30°	501.6	350.5	178.8	114.3	103.4	98.3	95.1	94.3	95.5	99.3	100.2
32.5°	518.5	340.2	168.4	108.2	98.5	92.0	87.7	85.5	86.7	91.1	92.2
35°	544.4	337.7	161.2	105.3	93.7	86.5	80.3	76.9	77.9	82.5	83.9
37.5°	574.5	342.8	154.2	101.3	89.1	81.1	72.9	68.5	70.1	74.3	75.5
40°	617.9	363.6	148.8	98.3	84.5	74.7	65.5	61.1	63.8	67.3	68.0
42.5°	670.1	400.5	147.4	95.5	78.9	68.0	58.7	55.6	57.5	60.9	61.5
45°	735.1	447.6	153.9	91.8	72.7	61.3	53.3	51.6	52.2	55.6	57.1
47.5°	804.8	496.0	171.4	88.7	67.3	56.0	49.1	47.6	47.2	50.3	52.4
50°	875.4	538.9	192.2	86.3	63.6	51.6	45.9	44.0	42.9	44.9	45.7
52.5°	945.0	573.1	205.7	82.3	59.8	47.2	43.2	40.2	38.3	39.4	40.2
55°	1015.8	603.1	206.5	76.3	56.2	44.4	40.4	37.0	34.7	34.7	35.2
57.5°	1081.9	629.5	194.7	68.4	51.1	41.7	36.6	33.7	31.4	30.5	30.7
60°	1140.4	649.0	175.2	59.3	46.7	38.3	32.8	30.5	27.6	25.9	25.5
62.5°	1192.6	658.6	148.4	50.1	41.3	34.3	29.2	26.8	22.8	20.8	20.6
65°	1236.7	648.8	120.4	41.5	36.8	29.9	25.0	22.5	18.1	15.8	15.8
67.5°	1280.4	604.0	91.1	35.0	32.0	25.2	20.6	18.3	15.2	13.2	13.2
70°	1286.1	509.9	63.8	29.3	26.5	19.4	16.6	15.2	12.4	10.6	10.4
72.5°	1144.8	367.0	38.7	24.0	20.8	13.7	13.2	12.0	9.2	8.0	7.8
75°	915.1	224.9	22.8	17.9	13.7	9.7	9.7	8.6	6.1	5.2	5.2
77.5°	632.4	117.7	13.4	11.6	8.2	5.8	6.4	5.2	3.0	2.4	2.4
80°	253.3	44.8	7.2	5.4	3.8	2.6	2.2	1.2	0.6	0.4	0.6
82.5°	50.5	11.8	2.4	1.4	1.4	0.6	0.0	0.0	0.0	0.0	0.0
85°	13.0	2.6	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	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)