

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: P959211

Luminaire Tested: **NAV-SB1A-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959211
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-SB1A-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA 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: 3163.1 lumens
Efficiency: N/A
Efficacy: 102.4 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

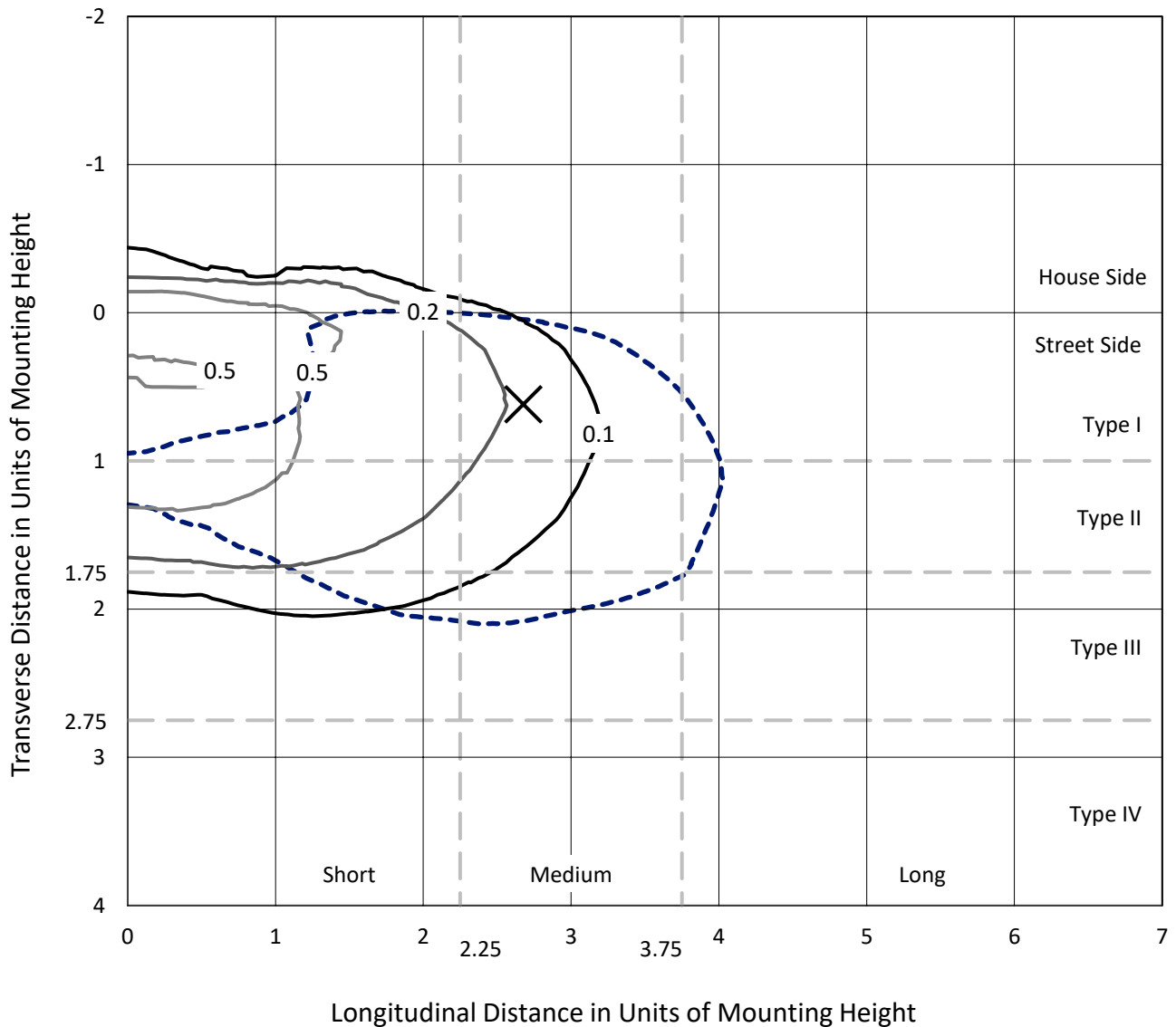
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

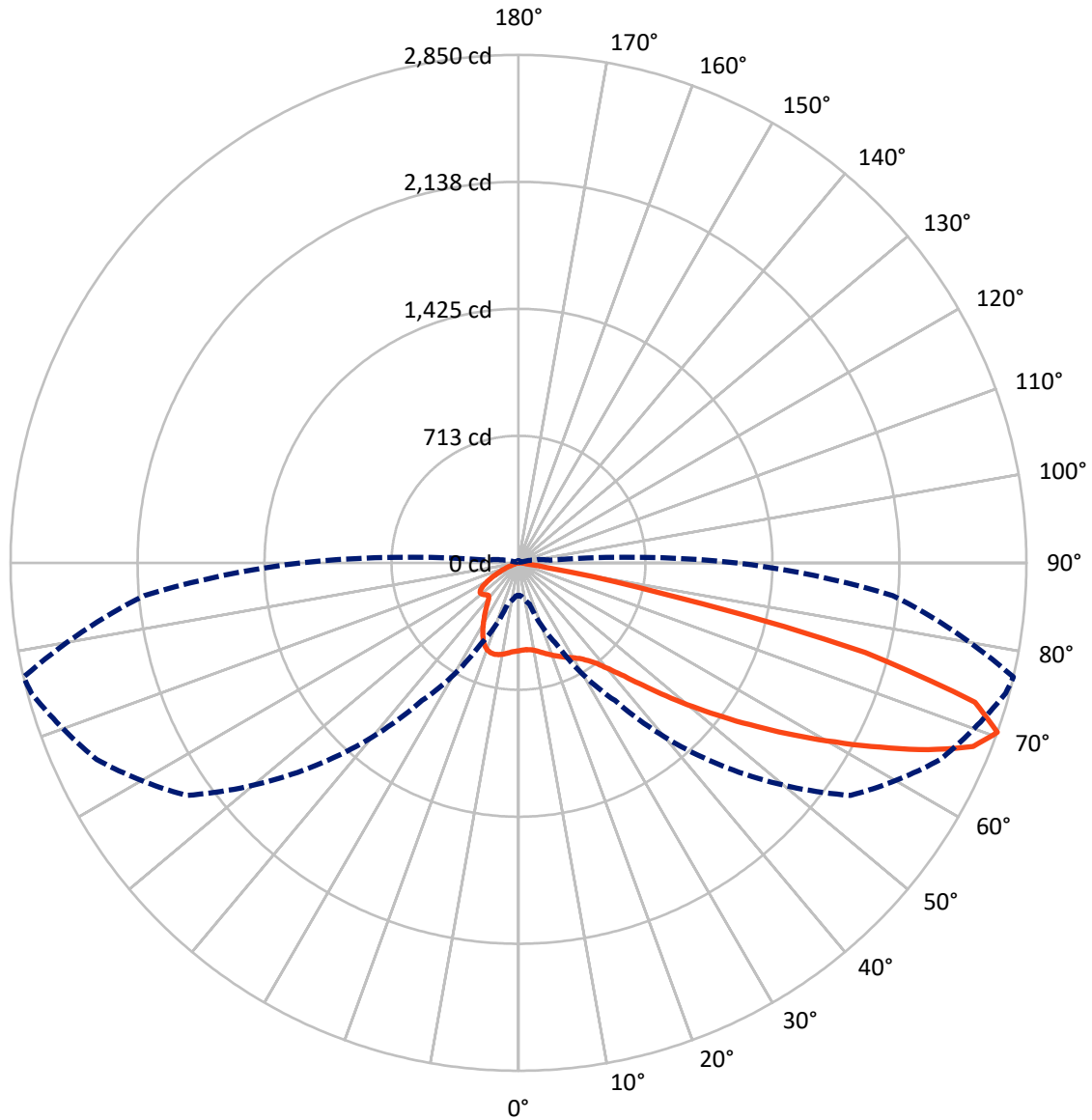
× Max cd
 - - - 1/2 Max cd



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

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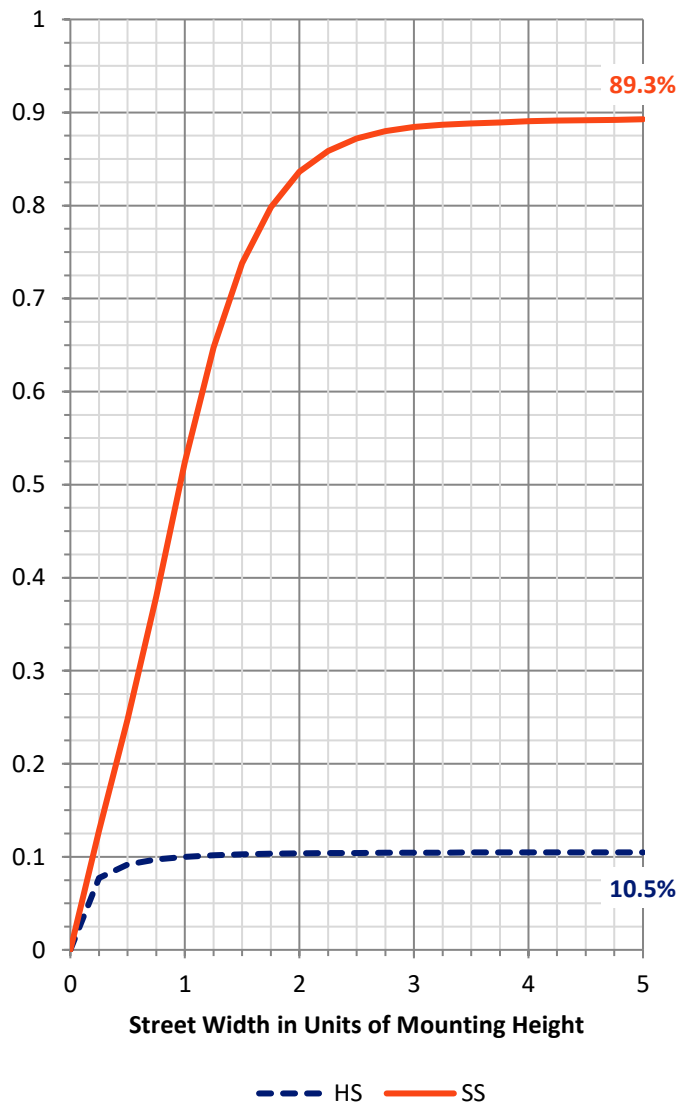
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	333.4	0.0	333.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2829.7	0.0	2829.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	3163.1	0.0	3163.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	1.3
10°-20°	100.9	3.2
20°-30°	156.1	4.9
30°-40°	283.3	9.0
40°-50°	534.8	16.9
50°-60°	772.7	24.4
60°-70°	822.5	26.0
70°-80°	435.9	13.8
80°-90°	14.3	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°	3163.1	100.0
0°-180°	3163.1	100.0

Coefficient of Utilization

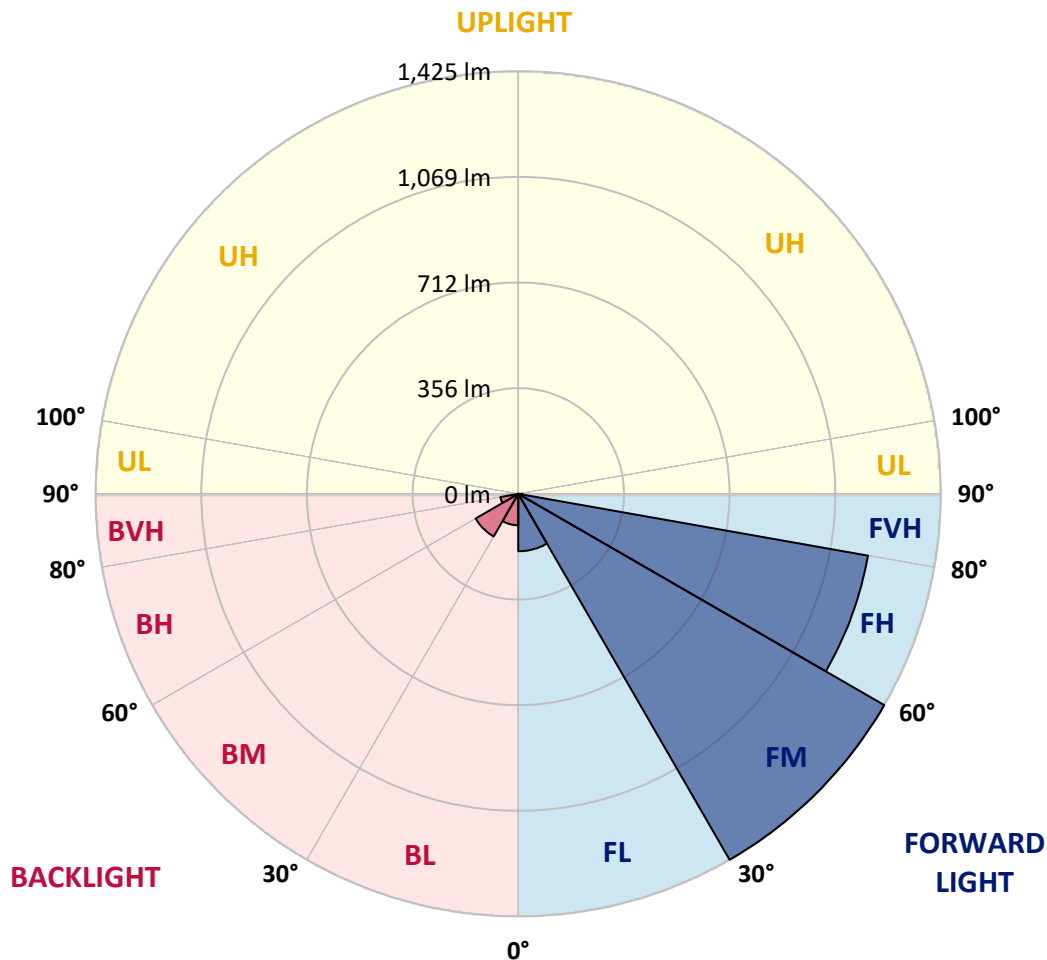


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.7	6.1			
FM (30°-60°)	1424.8	45.0			
FH (60°-80°)	1197.3	37.9			G1/1800
FVH (80°-90°)	13.9	0.4			G1/100
BL (0°-30°)	105.9	3.3	B0/110		
BM (30°-60°)	166.0	5.2	B0/220		
BH (60°-80°)	61.1	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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°	65°	75°	77°	85°
0°	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4
2.5°	463.2	467.4	466.8	469.7	470.6	474.6	478.6	484.0	489.9	489.8	493.8
5°	437.1	441.3	442.3	446.1	450.9	457.0	465.2	476.0	487.2	489.0	497.0
7.5°	406.1	410.5	413.1	420.7	429.5	442.3	455.6	471.4	489.9	492.6	508.0
10°	375.2	379.1	382.5	393.3	407.3	426.3	448.0	470.8	495.8	499.6	521.3
12.5°	356.0	359.8	363.6	372.9	390.3	413.5	443.0	473.7	505.4	510.8	539.6
15°	349.2	352.6	355.6	364.0	380.2	406.5	442.1	479.4	517.5	524.8	561.5
17.5°	350.1	352.0	353.9	360.4	376.2	403.3	443.8	489.4	532.0	538.3	583.5
20°	356.0	357.0	357.2	361.5	375.6	402.9	447.4	499.0	545.5	554.1	605.3
22.5°	363.4	363.8	363.4	366.3	379.4	405.9	452.2	510.6	560.7	568.7	627.2
25°	397.9	390.3	380.7	374.9	385.7	411.7	459.4	526.1	577.3	585.1	648.6
27.5°	505.2	483.4	449.1	410.5	398.9	420.0	469.4	541.9	594.1	601.1	671.6
30°	679.4	650.8	592.4	505.5	441.3	437.7	482.4	557.7	611.8	619.4	696.2
32.5°	853.9	847.0	779.6	659.4	536.6	476.8	504.0	579.1	635.4	641.4	729.3
35°	1030.5	1016.4	961.2	842.3	683.4	556.5	540.0	607.0	666.4	673.2	777.7
37.5°	1165.7	1157.2	1123.0	1025.1	857.5	679.6	601.5	650.4	711.3	718.9	839.6
40°	1285.2	1281.2	1269.7	1205.1	1052.3	840.6	697.1	717.5	773.7	782.7	915.4
42.5°	1379.1	1388.5	1395.1	1377.1	1253.1	1024.4	825.7	811.8	860.6	869.7	1012.2
45°	1475.2	1478.4	1504.9	1530.9	1452.4	1216.5	970.8	922.3	968.6	980.0	1128.0
47.5°	1536.9	1549.7	1596.4	1642.2	1620.0	1407.1	1126.6	1052.7	1093.9	1115.2	1257.9
50°	1541.5	1565.7	1630.0	1709.7	1742.1	1588.4	1296.0	1201.3	1245.1	1268.6	1396.5
52.5°	1465.0	1502.5	1602.3	1718.9	1808.0	1742.1	1471.2	1349.9	1406.1	1436.8	1540.3
55°	1123.2	1172.4	1497.7	1668.9	1810.6	1858.5	1641.7	1504.8	1585.5	1620.2	1695.8
57.5°	978.6	1003.4	1177.5	1582.3	1762.5	1905.5	1796.0	1652.2	1780.6	1823.8	1842.5
60°	814.2	846.8	987.6	1440.4	1697.1	1910.1	1932.2	1842.3	1992.2	2040.7	1977.1
62.5°	553.3	588.7	728.7	1196.7	1607.8	1907.8	2043.8	2038.1	2227.2	2279.4	2091.2
65°	342.8	365.0	457.3	977.2	1483.0	1910.3	2160.7	2275.8	2475.4	2528.3	2179.6
67.5°	270.9	281.1	329.2	750.3	1267.8	1856.3	2277.4	2499.4	2708.9	2750.8	2206.5
70°	181.9	188.2	239.5	503.0	943.2	1607.4	2275.2	2611.6	2829.1	2850.1	2108.2
72.5°	95.8	100.7	140.0	232.9	569.7	1142.6	1917.9	2477.3	2709.5	2677.9	1802.0
75°	48.0	56.0	94.3	118.3	243.3	637.2	1190.9	1953.2	2132.6	2010.3	1156.2
77.5°	36.4	44.0	77.9	77.9	84.7	214.5	504.4	1065.3	982.6	818.2	339.4
80°	23.2	29.9	68.2	58.9	35.4	54.5	131.4	298.5	208.8	158.8	61.7
82.5°	13.6	19.6	56.7	38.9	19.8	20.2	37.1	63.6	54.1	42.1	19.0
85°	5.4	12.8	38.9	15.4	7.8	5.0	11.2	13.6	11.2	8.4	4.8
87.5°	0.0	3.0	6.8	0.0	0.6	0.4	0.8	1.0	1.0	0.8	1.6
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°	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4	493.4
2.5°	495.6	496.0	497.2	497.4	494.6	491.0	489.6	489.0	486.6	486.4	486.8
5°	501.6	503.4	501.6	496.4	484.0	466.6	453.5	442.7	432.9	429.9	428.0
7.5°	513.5	515.4	509.9	489.6	458.5	423.8	392.7	370.7	351.0	343.6	340.6
10°	530.7	533.1	516.2	475.0	419.8	364.4	311.6	274.5	245.5	233.7	228.7
12.5°	552.4	553.3	519.6	452.8	369.7	290.5	215.8	176.0	150.3	140.6	137.7
15°	576.0	574.7	520.0	422.7	301.5	205.3	140.8	115.6	105.3	102.1	102.1
17.5°	601.1	595.3	512.0	379.1	226.5	140.4	104.4	98.5	96.7	95.8	95.6
20°	625.7	612.6	497.4	322.2	162.6	104.9	94.9	93.1	92.0	91.7	91.3
22.5°	648.0	625.9	472.4	256.0	118.1	92.7	89.7	88.0	86.3	85.5	85.3
25°	669.7	633.4	437.3	194.3	94.5	86.7	84.3	81.3	78.9	77.9	77.5
27.5°	691.0	638.3	393.3	143.8	84.3	81.1	76.7	72.5	70.7	70.3	69.9
30°	713.5	639.8	343.4	107.3	78.1	74.1	67.8	62.9	61.9	62.1	62.1
32.5°	741.1	642.2	293.0	87.8	72.9	65.7	58.1	53.1	52.4	53.1	52.9
35°	774.1	647.0	244.5	80.9	68.3	57.1	48.9	44.8	44.0	44.6	44.4
37.5°	818.8	654.8	199.2	79.5	64.5	49.9	41.1	37.7	37.7	37.9	37.7
40°	878.3	675.6	158.6	78.5	62.5	44.6	34.7	33.3	33.9	34.3	34.3
42.5°	950.8	719.8	131.2	77.3	60.4	42.1	31.6	31.0	32.0	32.4	32.4
45°	1032.2	775.6	121.7	75.3	58.3	43.8	30.1	29.3	30.5	30.7	31.0
47.5°	1116.2	830.4	120.4	73.1	56.4	46.1	29.7	28.0	29.3	29.5	29.7
50°	1201.3	866.1	121.7	69.7	53.1	46.1	29.9	26.5	27.8	28.4	28.6
52.5°	1287.0	882.5	120.8	62.3	47.6	43.4	29.9	25.4	26.5	27.0	27.0
55°	1370.1	879.3	108.6	51.4	40.4	38.3	29.2	24.4	25.2	25.4	25.4
57.5°	1435.8	834.8	86.1	40.0	32.8	32.0	26.5	23.2	23.8	23.6	23.6
60°	1470.2	736.9	61.5	30.7	25.7	25.2	23.4	21.5	21.9	21.0	20.8
62.5°	1470.6	607.4	41.1	24.4	20.6	20.0	20.0	19.4	19.0	17.0	16.4
65°	1439.2	463.8	27.4	19.4	16.6	15.6	16.8	16.6	15.2	12.4	12.0
67.5°	1368.2	304.0	20.8	15.2	12.8	12.2	13.4	13.9	13.0	10.4	10.1
70°	1221.9	177.0	17.2	11.8	9.6	9.0	10.8	12.0	10.8	8.4	8.0
72.5°	1015.0	95.5	13.9	8.8	6.6	5.9	8.6	9.7	8.6	6.1	5.9
75°	658.6	51.1	10.8	5.8	3.4	3.8	6.4	7.2	5.9	4.0	3.6
77.5°	221.1	22.5	6.8	2.8	1.6	1.6	3.8	4.4	2.8	1.4	1.2
80°	49.3	9.4	2.8	1.2	0.6	0.6	0.8	0.8	0.4	0.0	0.0
82.5°	16.2	3.8	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	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)