

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: P959924

Luminaire Tested: **NAV-SB1B-760-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959924
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-760-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 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: 5085 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

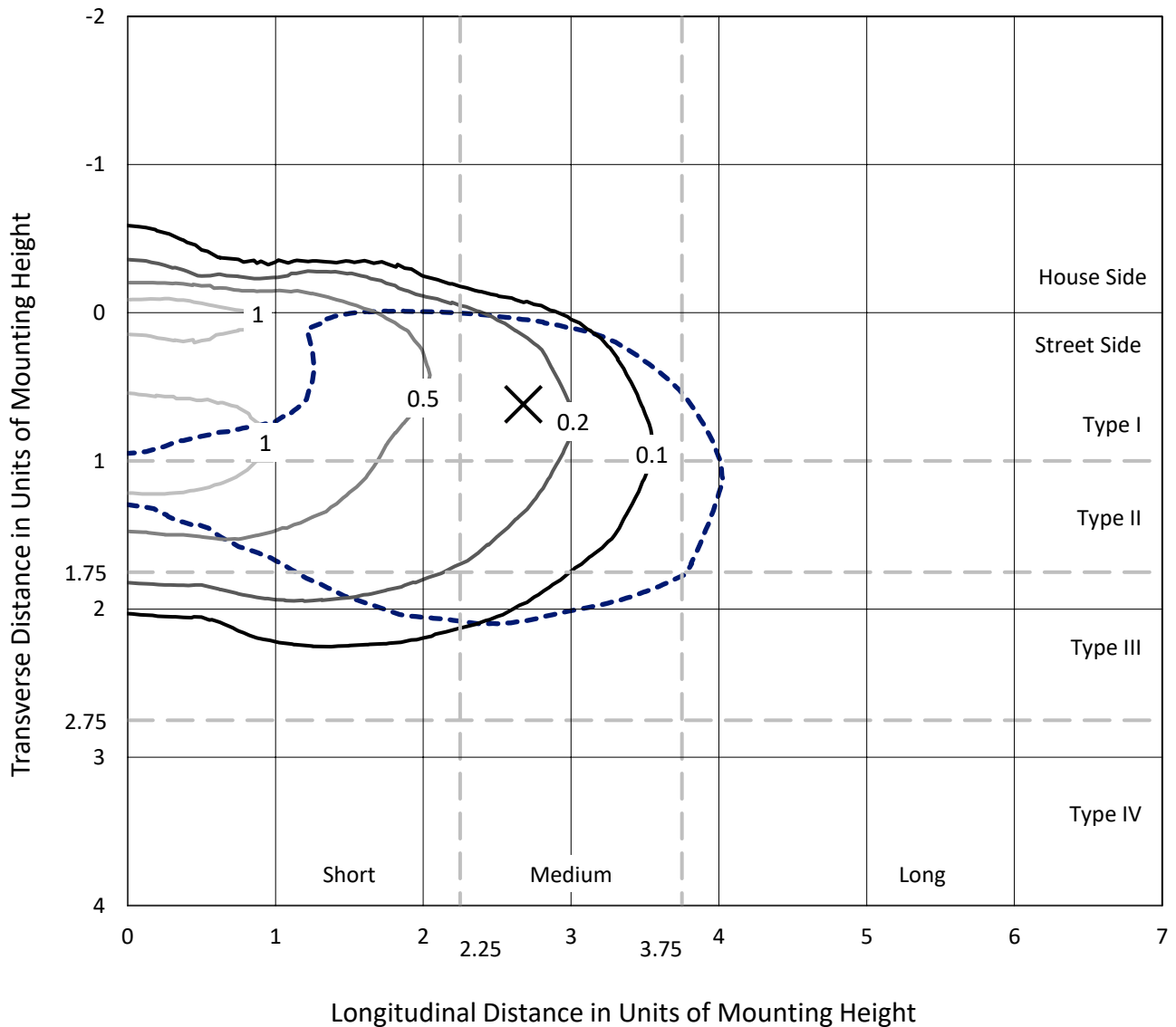
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

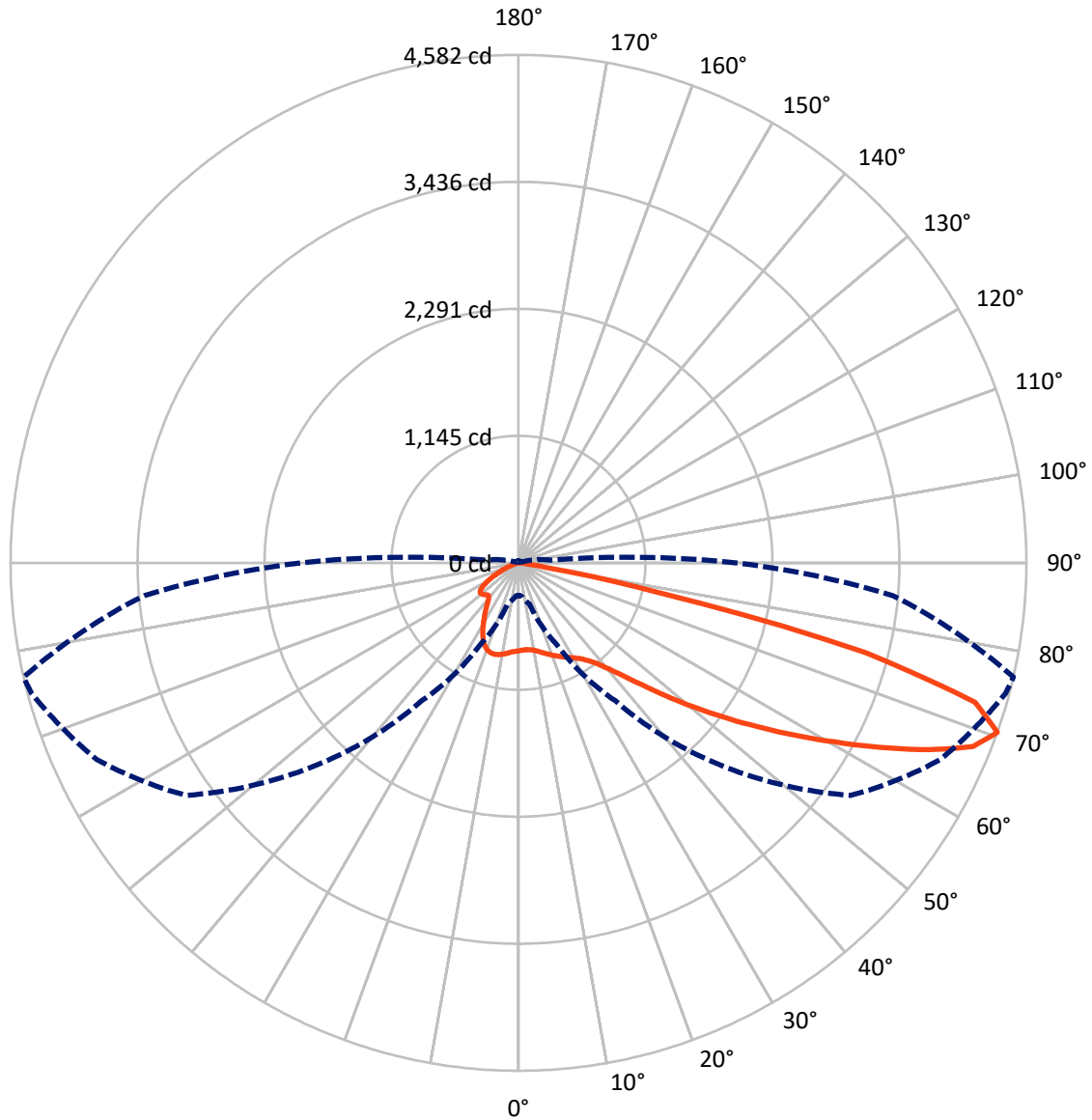
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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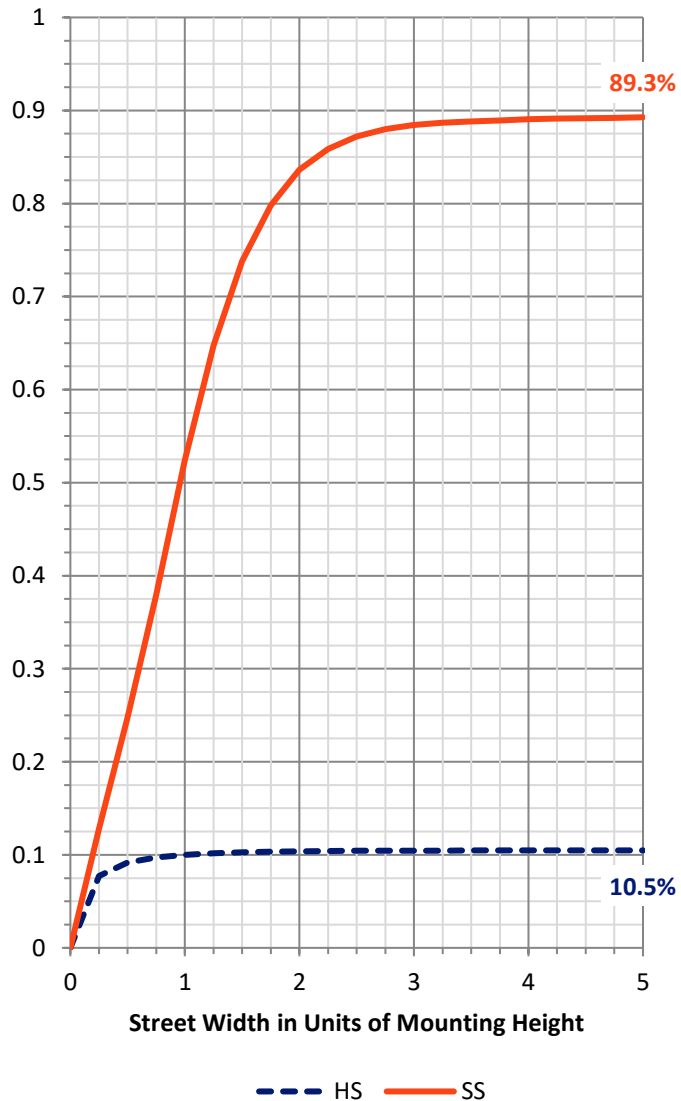
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.0	0.0	536.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4549.0	0.0	4549.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	5085.0	0.0	5085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.3
10°-20°	162.3	3.2
20°-30°	251.0	4.9
30°-40°	455.4	9.0
40°-50°	859.7	16.9
50°-60°	1242.2	24.4
60°-70°	1322.3	26.0
70°-80°	700.7	13.8
80°-90°	23.0	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°	5085.0	100.0
0°-180°	5085.0	100.0

Coefficient of Utilization



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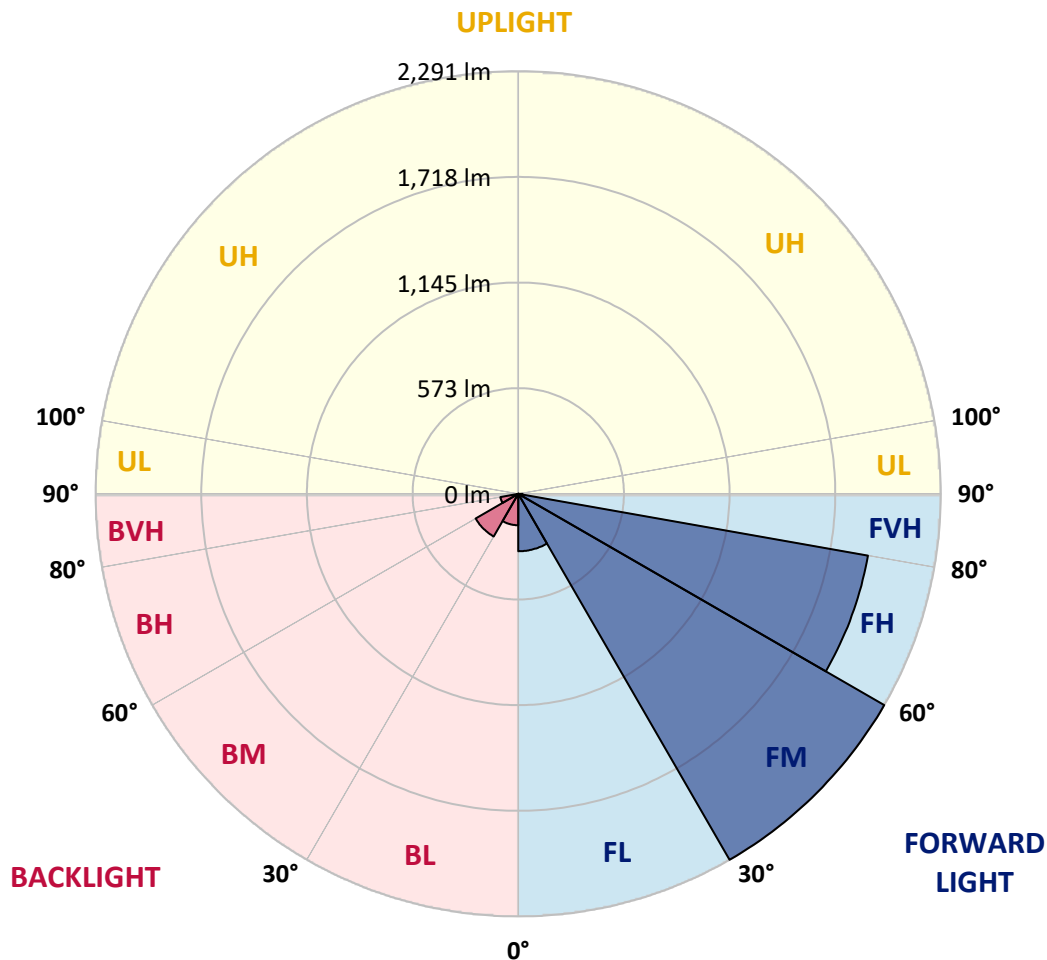
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.3	6.1			
FM (30°-60°)	2290.5	45.0			
FH (60°-80°)	1924.8	37.9			G2/5000
FVH (80°-90°)	22.4	0.4			G1/100
BL (0°-30°)	170.3	3.3	B1/500		
BM (30°-60°)	266.8	5.2	B1/1000		
BH (60°-80°)	98.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	744.7	751.4	750.5	754.9	756.6	763.0	769.4	778.1	787.7	787.4	793.9
5°	702.6	709.4	710.9	717.1	724.8	734.7	747.9	765.3	783.2	786.1	799.0
7.5°	652.8	659.9	664.1	676.3	690.4	710.9	732.5	757.9	787.7	791.9	816.6
10°	603.1	609.5	615.0	632.3	654.8	685.3	720.3	756.9	797.0	803.1	838.1
12.5°	572.3	578.3	584.5	599.5	627.5	664.7	712.3	761.4	812.4	821.1	867.4
15°	561.3	566.8	571.6	585.1	611.1	653.4	710.6	770.7	832.0	843.6	902.7
17.5°	562.9	565.8	569.0	579.3	604.6	648.3	713.5	786.8	855.2	865.4	938.0
20°	572.3	573.8	574.2	581.3	603.7	647.7	719.3	802.2	877.0	890.8	973.0
22.5°	584.1	584.8	584.1	589.0	609.8	652.5	727.0	820.8	901.4	914.2	1008.3
25°	639.7	627.5	612.0	602.7	620.1	661.8	738.6	845.8	928.0	940.5	1042.7
27.5°	812.1	777.2	721.9	659.9	641.2	675.3	754.6	871.2	955.0	966.3	1079.6
30°	1092.1	1046.2	952.4	812.7	709.4	703.6	775.5	896.6	983.6	995.8	1119.1
32.5°	1372.8	1361.5	1253.4	1060.1	862.5	766.5	810.2	930.9	1021.5	1031.1	1172.4
35°	1656.7	1633.8	1545.3	1354.1	1098.6	894.6	868.0	975.9	1071.2	1082.2	1250.1
37.5°	1874.1	1860.3	1805.3	1648.0	1378.6	1092.4	966.9	1045.6	1143.5	1155.7	1349.7
40°	2066.1	2059.6	2041.1	1937.4	1691.7	1351.3	1120.7	1153.4	1243.7	1258.2	1471.7
42.5°	2217.1	2232.1	2242.7	2213.8	2014.4	1646.8	1327.5	1305.0	1383.4	1398.2	1627.1
45°	2371.4	2376.7	2419.3	2461.1	2334.8	1955.6	1560.7	1482.7	1557.1	1575.4	1813.3
47.5°	2470.8	2491.3	2566.4	2640.0	2604.3	2262.0	1811.2	1692.3	1758.5	1792.8	2022.1
50°	2478.1	2517.0	2620.3	2748.4	2800.5	2553.6	2083.4	1931.2	2001.5	2039.4	2245.0
52.5°	2355.1	2415.5	2575.7	2763.3	2906.5	2800.5	2365.1	2170.1	2260.3	2309.8	2476.2
55°	1805.6	1884.7	2407.7	2682.9	2910.7	2987.8	2639.3	2419.0	2548.8	2604.6	2726.0
57.5°	1573.2	1613.0	1893.0	2543.6	2833.3	3063.2	2887.2	2656.0	2862.5	2931.8	2962.0
60°	1308.9	1361.2	1587.6	2315.6	2728.2	3070.6	3106.3	2961.7	3202.5	3280.6	3178.4
62.5°	889.5	946.4	1171.5	1923.8	2584.7	3067.0	3285.7	3276.4	3580.5	3664.4	3361.8
65°	551.0	586.7	735.0	1570.9	2384.0	3070.9	3473.6	3658.5	3979.4	4064.4	3503.8
67.5°	435.4	451.8	529.2	1206.1	2038.2	2984.2	3661.1	4017.9	4354.7	4422.2	3547.1
70°	292.5	302.5	385.0	808.6	1516.4	2584.0	3657.6	4198.4	4548.0	4581.8	3389.2
72.5°	154.2	161.8	225.1	374.4	915.8	1836.8	3083.1	3982.5	4355.7	4305.0	2896.9
75°	77.1	89.9	151.6	190.1	391.1	1024.4	1914.5	3140.0	3428.3	3231.8	1858.6
77.5°	58.4	70.6	125.3	125.3	136.1	344.9	810.9	1712.6	1579.6	1315.3	545.6
80°	37.2	48.2	109.5	94.7	56.9	87.6	211.3	479.8	335.6	255.3	99.2
82.5°	21.8	31.5	91.2	62.6	31.8	32.4	59.8	102.1	87.0	67.8	30.5
85°	8.7	20.6	62.6	24.7	12.5	8.0	17.9	21.8	17.9	13.5	7.7
87.5°	0.0	4.8	11.0	0.0	0.9	0.6	1.3	1.6	1.6	1.3	2.6
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°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	796.7	797.3	799.3	799.6	795.1	789.4	787.1	786.1	782.3	782.0	782.6
5°	806.4	809.2	806.4	798.0	778.1	750.1	729.0	711.7	695.9	691.1	688.2
7.5°	825.6	828.5	819.8	787.1	737.0	681.4	631.3	596.0	564.3	552.4	547.6
10°	853.2	857.1	829.7	763.6	675.0	585.7	500.9	441.3	394.6	375.7	367.7
12.5°	887.9	889.5	835.3	728.0	594.4	466.9	346.9	282.9	241.5	226.1	221.3
15°	926.1	923.8	835.9	679.5	484.6	330.2	226.4	185.9	169.2	164.1	164.1
17.5°	966.3	956.9	823.1	609.5	364.2	225.7	168.0	158.4	155.4	154.2	153.9
20°	1005.7	984.9	799.6	517.9	261.4	168.6	152.5	149.6	148.0	147.4	146.8
22.5°	1041.7	1006.0	759.4	411.6	189.8	149.0	144.2	141.7	138.7	137.5	137.1
25°	1076.8	1018.2	702.9	312.4	151.9	139.4	135.5	130.7	126.8	125.3	124.6
27.5°	1110.8	1026.0	632.3	231.2	135.5	130.4	123.3	116.5	113.7	113.1	112.4
30°	1147.1	1028.6	552.0	172.4	125.6	119.1	108.9	101.2	99.5	99.8	99.8
32.5°	1191.4	1032.4	471.1	141.2	117.3	105.7	93.5	85.4	84.2	85.4	85.1
35°	1244.4	1040.1	393.1	130.1	109.8	91.8	78.7	72.0	70.6	71.6	71.3
37.5°	1316.3	1052.7	320.2	127.8	103.7	80.3	66.1	60.7	60.7	61.0	60.7
40°	1411.9	1086.0	255.0	126.2	100.6	71.6	55.9	53.6	54.6	55.2	55.2
42.5°	1528.6	1157.0	210.9	124.2	97.0	67.8	50.7	49.8	51.4	52.1	52.1
45°	1659.3	1246.9	195.6	121.1	93.8	70.3	48.5	47.3	49.1	49.4	49.8
47.5°	1794.5	1334.9	193.6	117.6	90.5	74.2	47.9	45.0	47.3	47.6	47.9
50°	1931.2	1392.4	195.6	112.0	85.4	74.2	48.2	42.7	44.6	45.6	45.9
52.5°	2069.0	1418.7	194.2	100.1	76.5	69.7	48.2	40.8	42.7	43.4	43.4
55°	2202.6	1413.6	174.7	82.5	64.9	61.7	46.8	39.2	40.5	40.8	40.8
57.5°	2308.2	1341.9	138.4	64.3	52.7	51.4	42.7	37.2	38.2	37.9	37.9
60°	2363.4	1184.6	98.9	49.4	41.4	40.5	37.6	34.6	35.4	33.7	33.4
62.5°	2364.1	976.5	66.1	39.2	33.1	32.1	32.1	31.2	30.5	27.3	26.3
65°	2313.7	745.7	44.0	31.2	26.6	25.0	27.0	26.6	24.4	19.9	19.3
67.5°	2199.3	488.7	33.4	24.4	20.6	19.6	21.5	22.4	20.9	16.7	16.4
70°	1964.3	284.5	27.6	19.0	15.4	14.5	17.3	19.3	17.3	13.5	12.8
72.5°	1631.6	153.5	22.4	14.1	10.6	9.6	13.8	15.8	13.8	9.9	9.6
75°	1058.7	82.2	17.3	9.3	5.4	6.1	10.2	11.6	9.6	6.5	5.7
77.5°	355.5	36.3	11.0	4.5	2.6	2.6	6.1	7.1	4.5	2.3	1.9
80°	79.3	15.1	4.5	1.9	0.9	0.9	1.3	1.3	0.6	0.0	0.0
82.5°	26.0	6.1	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.9	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.3	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)