

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: P960295

Luminaire Tested: **NAV-SB1C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5586.2 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

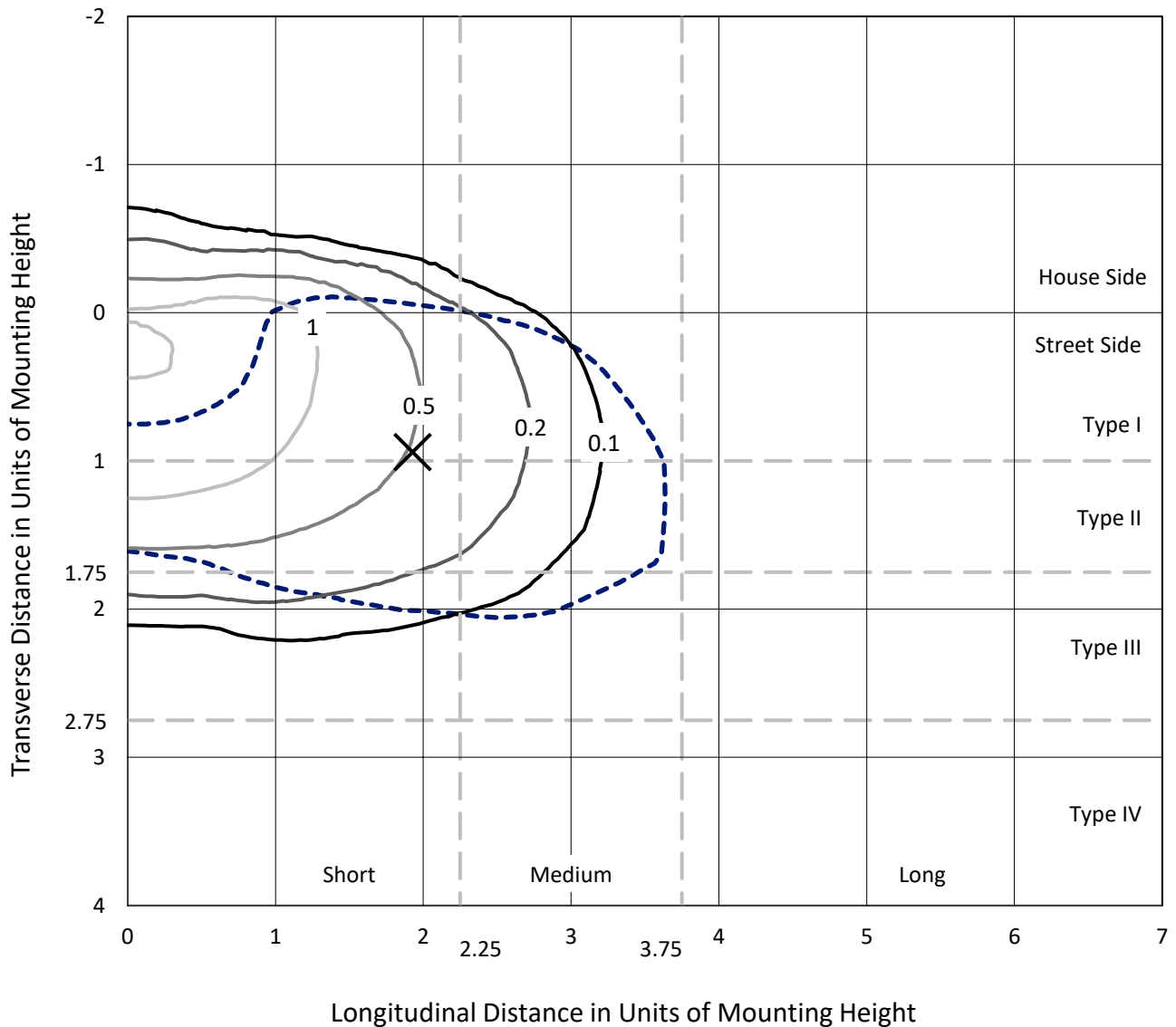
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

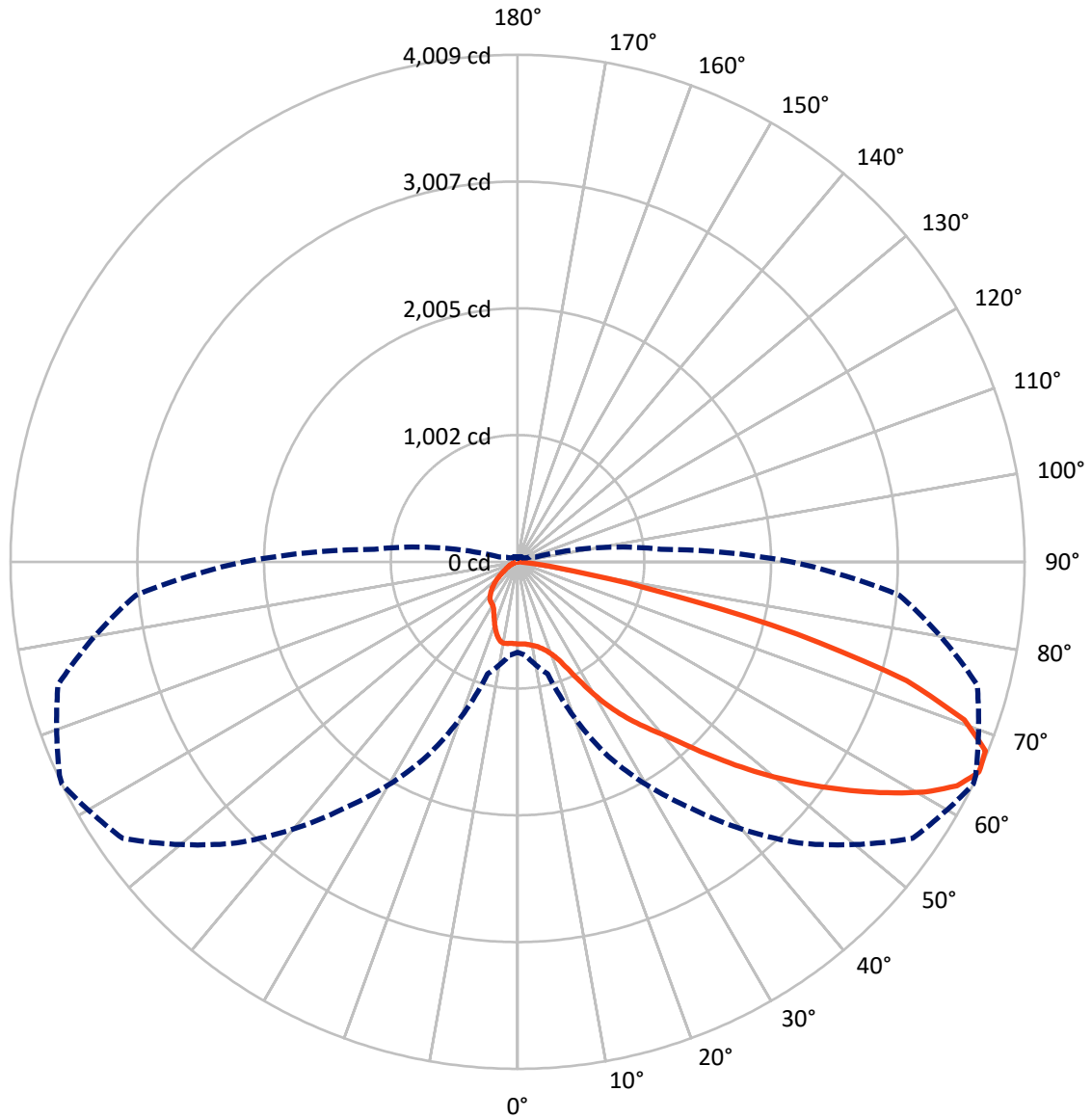
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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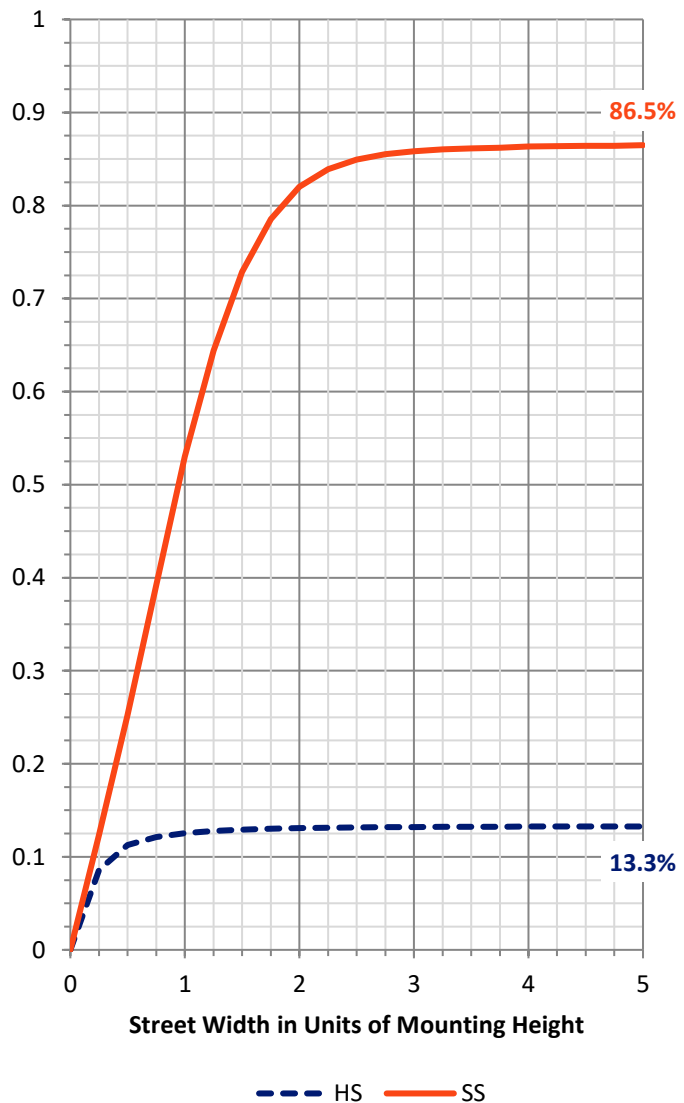
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.1	0.0	747.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4839.2	0.0	4839.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	5586.2	0.0	5586.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	1.1
10°-20°	162.6	2.9
20°-30°	308.1	5.5
30°-40°	623.4	11.2
40°-50°	1062.0	19.0
50°-60°	1444.3	25.9
60°-70°	1356.2	24.3
70°-80°	543.4	9.7
80°-90°	26.3	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°	5586.2	100.0
0°-180°	5586.2	100.0

Coefficient of Utilization



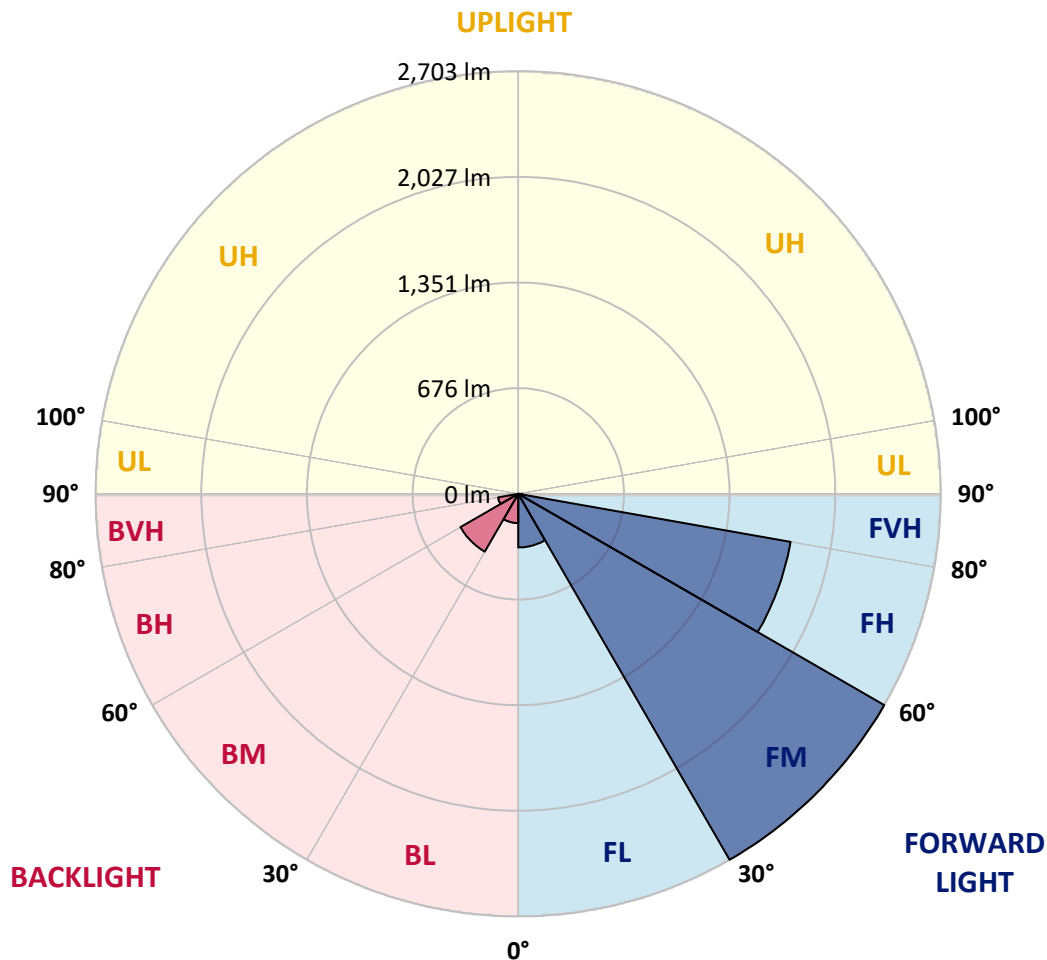
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.1	6.1			
FM (30°-60°)	2702.6	48.4			
FH (60°-80°)	1768.5	31.7			G1/1800
FVH (80°-90°)	25.0	0.4			G1/100
BL (0°-30°)	187.6	3.4	B1/500		
BM (30°-60°)	427.1	7.6	B1/1000		
BH (60°-80°)	131.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7
2.5°	647.5	652.0	650.9	649.7	649.3	650.2	650.5	650.2	650.2	650.2	650.5
5°	635.1	638.9	638.9	641.5	645.2	649.7	653.1	653.8	654.6	655.7	655.4
7.5°	611.5	614.5	616.7	625.4	634.8	646.8	656.8	662.0	662.9	667.0	668.5
10°	595.4	599.2	602.9	611.9	625.4	643.4	660.6	673.3	675.2	684.9	689.4
12.5°	594.7	598.4	603.3	613.1	628.7	647.9	668.8	687.2	690.5	704.8	714.1
15°	602.6	607.0	611.5	623.5	640.4	663.6	686.0	708.9	712.3	732.5	742.6
17.5°	618.7	624.6	628.0	640.0	657.9	683.8	713.4	739.6	742.6	766.2	778.9
20°	650.5	657.6	658.8	668.5	686.0	713.8	749.0	781.6	785.4	812.3	826.5
22.5°	716.4	726.5	717.5	722.4	738.1	765.9	804.0	845.2	850.4	881.2	893.9
25°	832.5	846.8	823.5	815.3	822.0	850.9	898.8	950.8	956.8	981.5	987.9
27.5°	1060.6	1042.2	1007.0	972.5	952.3	968.8	1022.7	1087.1	1094.6	1118.6	1111.1
30°	1311.1	1295.0	1247.4	1171.1	1123.1	1120.4	1170.2	1242.2	1250.8	1273.7	1250.8
32.5°	1562.0	1546.6	1495.0	1401.0	1317.8	1276.6	1311.1	1390.8	1395.3	1410.0	1376.3
35°	1808.8	1793.0	1741.4	1645.1	1542.9	1449.2	1442.5	1532.4	1533.9	1549.3	1499.1
37.5°	2057.1	2044.0	1988.9	1894.5	1793.9	1664.6	1602.1	1666.4	1668.4	1683.4	1631.3
40°	2234.2	2239.8	2202.0	2128.9	2042.4	1901.3	1781.0	1809.1	1798.0	1823.1	1791.9
42.5°	2386.2	2397.5	2364.6	2327.8	2277.7	2153.3	2002.7	1997.9	1979.9	1993.4	1961.2
45°	2517.7	2527.0	2497.5	2488.9	2487.8	2400.4	2245.1	2215.8	2190.7	2188.2	2149.5
47.5°	2566.0	2584.0	2596.7	2625.5	2681.7	2645.0	2495.6	2450.3	2422.2	2401.6	2340.6
50°	2584.3	2603.5	2646.9	2730.8	2863.7	2879.4	2745.1	2694.1	2659.7	2622.2	2532.3
52.5°	2559.6	2593.8	2652.1	2793.3	2986.1	3067.4	2984.3	2939.7	2900.4	2839.4	2706.1
55°	2414.0	2448.0	2567.5	2792.6	3047.2	3199.2	3210.5	3190.6	3146.4	3050.2	2846.5
57.5°	2106.9	2157.4	2346.5	2697.5	3046.1	3312.7	3432.2	3446.5	3397.0	3259.2	2956.9
60°	1681.4	1750.0	1980.7	2486.6	2952.1	3374.2	3626.6	3697.7	3645.3	3465.1	3046.5
62.5°	1173.3	1252.7	1471.0	2156.3	2737.2	3329.9	3768.5	3899.9	3860.3	3649.4	3080.9
65°	715.7	741.1	917.2	1696.8	2371.6	3145.0	3812.3	4009.3	3996.2	3762.2	3030.0
67.5°	476.7	498.0	548.6	1163.6	1841.0	2775.3	3707.4	3990.2	3993.9	3743.8	2843.5
70°	287.2	305.6	338.6	676.7	1193.1	2196.8	3382.8	3746.8	3768.5	3498.5	2489.9
72.5°	118.4	130.7	160.6	306.7	617.9	1394.2	2693.7	3216.9	3267.4	2941.6	1911.0
75°	67.0	73.4	94.4	154.0	268.1	649.7	1631.7	2283.6	2358.1	2027.4	1149.6
77.5°	44.6	47.6	61.1	99.6	150.9	221.7	697.3	1189.7	1332.1	1107.4	497.7
80°	29.9	32.6	41.9	66.6	98.1	95.1	222.1	440.7	542.2	380.5	121.4
82.5°	20.2	20.6	29.9	43.8	62.1	46.0	65.5	137.0	172.3	110.1	46.0
85°	11.6	11.3	22.1	25.4	27.7	19.1	19.9	41.2	53.9	46.4	26.2
87.5°	1.5	2.3	8.6	6.8	3.8	4.1	4.1	7.1	10.5	11.3	5.6
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°	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7	649.7
2.5°	650.5	650.2	649.0	647.9	645.2	643.7	644.5	643.7	643.4	643.7	645.2
5°	655.4	654.3	651.3	647.5	642.3	635.9	631.8	625.8	620.1	616.7	617.6
7.5°	668.5	667.4	663.2	652.7	635.9	609.3	585.0	563.6	547.5	538.1	538.5
10°	689.4	687.6	681.2	657.9	613.8	555.8	507.5	467.4	441.2	428.8	427.6
12.5°	714.1	711.9	700.7	653.1	571.8	481.2	414.5	370.0	345.6	334.8	333.6
15°	743.3	740.4	718.3	629.9	510.8	398.8	337.8	304.4	288.7	279.0	279.4
17.5°	779.7	774.5	731.3	595.0	444.5	335.9	290.6	265.5	251.6	242.3	241.6
20°	826.9	818.3	741.9	553.5	383.5	296.2	258.8	237.8	227.3	219.0	217.6
22.5°	892.8	880.5	754.6	508.6	340.4	268.9	235.1	219.9	211.3	201.8	200.4
25°	974.5	959.8	770.3	467.0	310.8	245.3	217.9	205.2	195.2	184.3	183.2
27.5°	1088.7	1062.4	789.0	433.0	285.4	225.1	202.2	188.0	176.4	167.4	165.5
30°	1216.0	1172.9	805.5	412.4	262.1	206.3	181.6	167.4	156.5	150.2	149.0
32.5°	1336.6	1278.2	816.4	403.3	241.2	185.0	159.2	143.8	135.6	133.7	134.8
35°	1450.4	1373.3	815.3	394.7	222.4	163.7	137.0	121.4	115.0	116.1	116.1
37.5°	1581.5	1474.8	807.4	381.2	207.0	144.2	118.0	104.1	98.5	98.9	100.3
40°	1733.9	1591.9	802.6	355.8	190.2	126.2	102.2	91.0	86.9	85.4	85.0
42.5°	1896.5	1705.4	803.3	327.0	169.2	110.1	91.3	82.0	78.3	77.2	76.8
45°	2059.7	1813.6	804.4	296.9	147.2	97.8	83.5	75.6	73.4	71.9	71.9
47.5°	2213.3	1905.8	783.4	264.8	125.5	88.4	77.2	71.9	70.0	68.2	68.2
50°	2356.3	1967.2	732.9	227.3	108.2	80.9	72.3	68.6	66.6	64.8	64.8
52.5°	2467.5	1976.9	649.3	188.7	96.2	75.2	69.3	65.9	63.7	61.8	61.4
55°	2517.0	1915.9	530.6	152.8	86.9	70.4	66.3	62.9	60.3	58.4	58.0
57.5°	2504.2	1787.4	413.8	122.8	77.9	65.5	62.5	60.3	57.3	54.3	53.9
60°	2441.7	1615.5	311.9	102.2	69.7	60.3	58.4	56.6	52.4	48.0	47.2
62.5°	2333.4	1399.4	222.4	84.7	60.7	54.3	53.5	52.1	46.0	37.8	37.1
65°	2167.9	1136.9	149.8	70.4	52.1	47.6	48.0	45.3	37.4	28.1	27.4
67.5°	1926.0	831.4	95.8	57.7	43.5	39.7	40.1	38.5	31.9	24.0	22.9
70°	1617.8	550.5	62.5	43.8	34.8	30.7	33.0	33.3	27.0	19.5	18.8
72.5°	1186.0	325.0	43.8	32.6	25.4	21.3	27.0	27.7	21.7	14.6	13.8
75°	676.0	154.3	33.0	23.6	15.7	15.0	21.0	21.0	15.0	9.7	9.0
77.5°	283.8	64.4	23.3	15.4	9.0	8.6	14.2	13.1	7.5	4.5	4.5
80°	82.0	28.8	12.4	7.5	3.8	3.4	5.6	4.1	1.8	0.7	0.7
82.5°	32.2	12.7	4.8	3.0	1.5	1.5	0.7	0.0	0.0	0.0	0.0
85°	19.1	5.2	2.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.1	0.7	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)