

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: P960399

Luminaire Tested: **NAV-SB1C-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-750-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6926.9 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

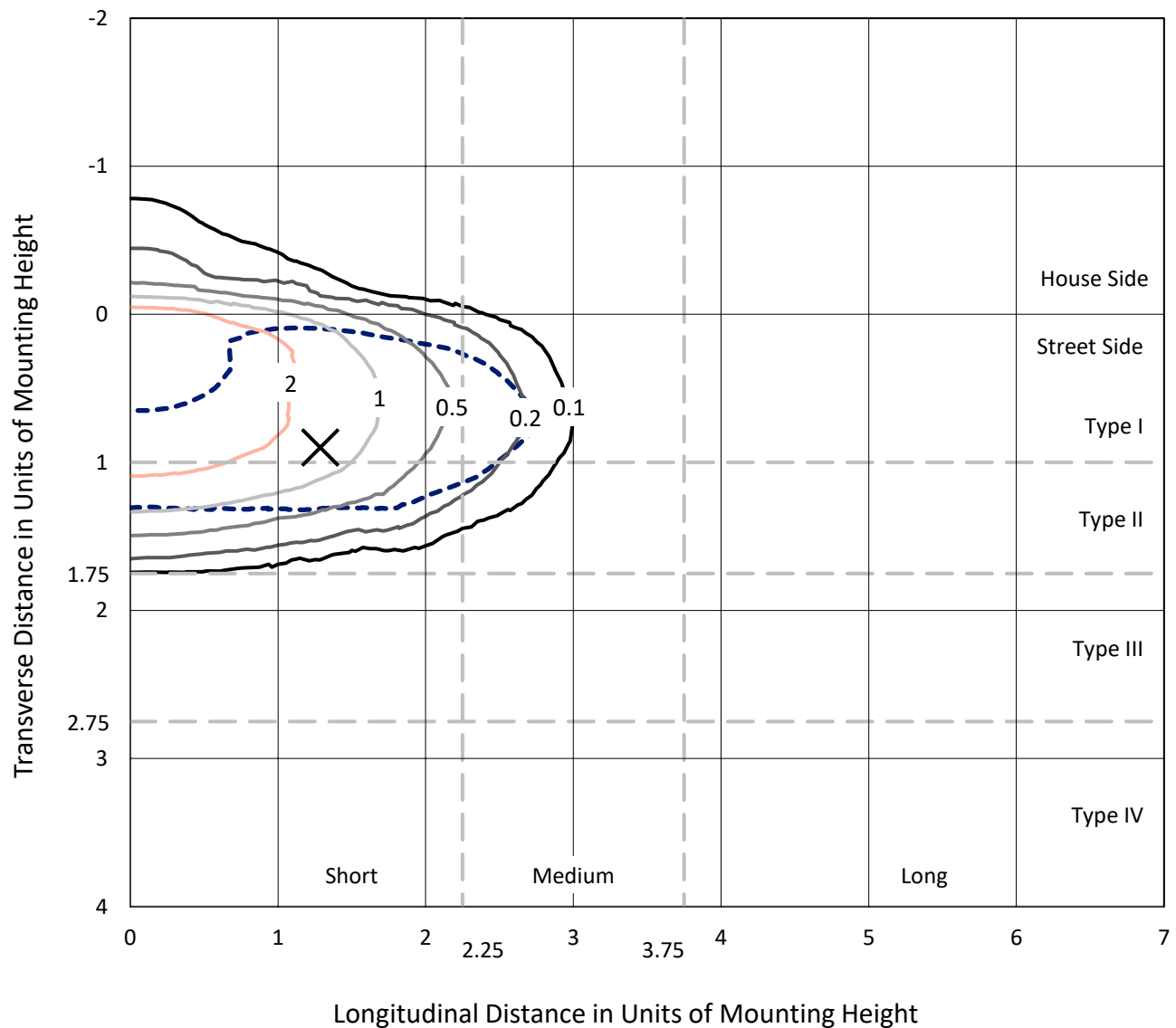
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

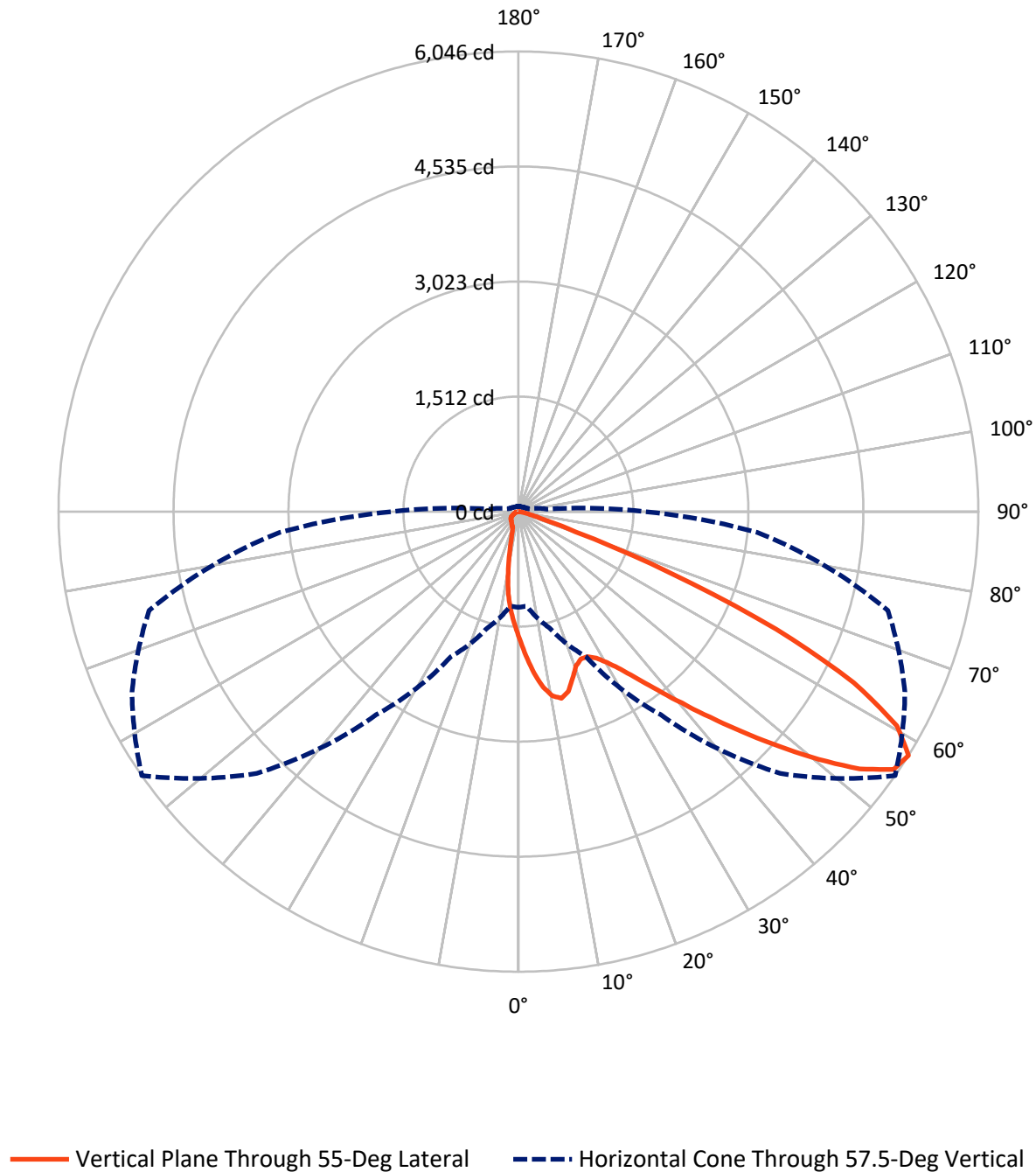
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.0	0.0	541.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6386.0	0.0	6386.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	6926.9	0.0	6926.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	2.2
10°-20°	375.2	5.4
20°-30°	600.2	8.7
30°-40°	1016.0	14.7
40°-50°	1668.0	24.1
50°-60°	1833.2	26.5
60°-70°	1051.5	15.2
70°-80°	214.9	3.1
80°-90°	12.7	0.2
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°	6926.9	100.0
0°-180°	6926.9	100.0

Coefficient of Utilization



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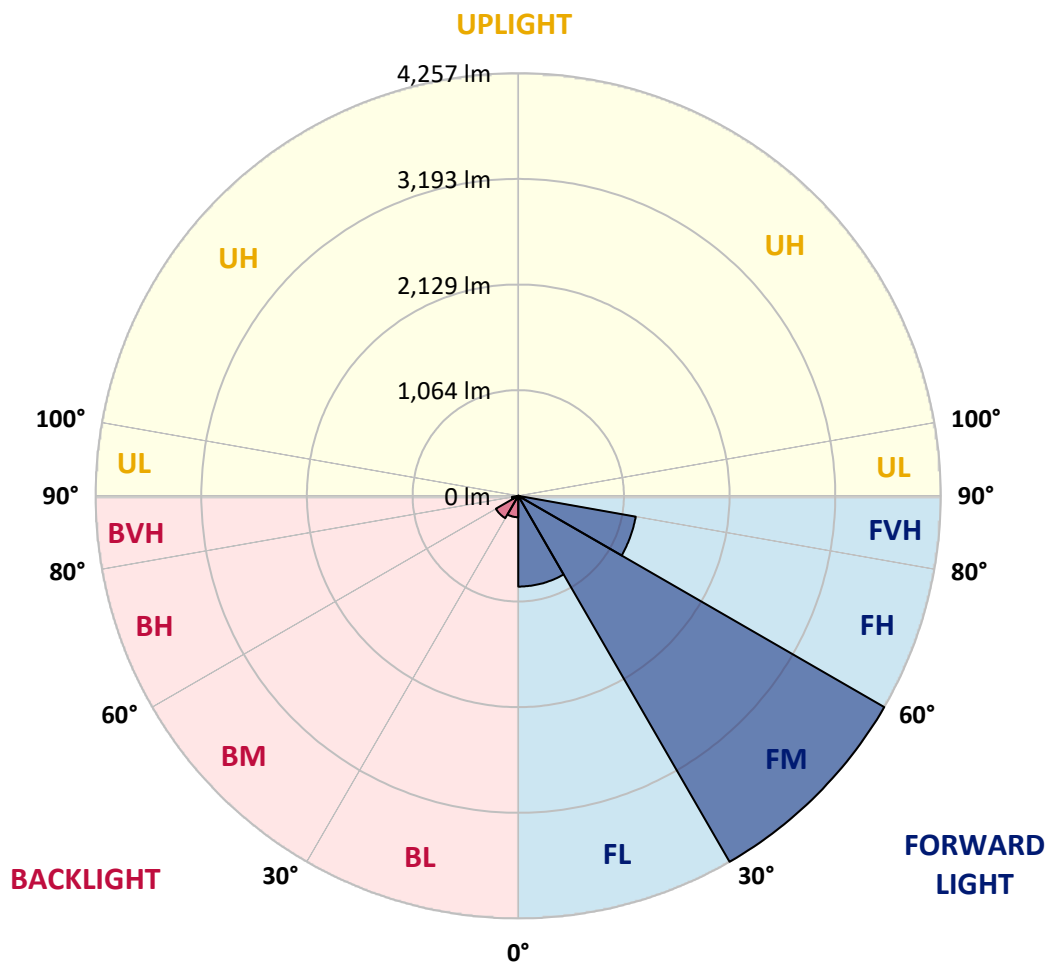
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.7	13.2			
FM	(30°-60°)	4257.4	61.5			
FH	(60°-80°)	1202.1	17.4			G1/1800
FVH	(80°-90°)	11.8	0.2			G1/100
BL	(0°-30°)	216.0	3.1	B1/500		
BM	(30°-60°)	259.8	3.8	B1/1000		
BH	(60°-80°)	64.3	0.9	B0/110		G0/110
BVH	(80°-90°)	0.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	2071.1	2045.1	2041.3	2036.2	1986.6	1949.4	1895.6	1836.7	1770.5	1702.9	1673.1
5°	2392.8	2372.3	2368.5	2344.5	2288.1	2225.0	2129.2	2008.4	1885.0	1739.7	1677.3
7.5°	2455.2	2451.3	2468.8	2468.0	2460.3	2410.3	2329.5	2185.6	2000.3	1784.9	1688.5
10°	2177.1	2186.9	2239.0	2284.7	2408.1	2479.9	2462.4	2343.7	2119.0	1836.7	1700.8
12.5°	1923.8	1912.2	1949.4	2001.1	2144.6	2358.2	2517.5	2475.7	2254.8	1895.2	1719.2
15°	1764.9	1760.2	1781.1	1805.0	1914.4	2129.6	2453.4	2582.9	2385.5	1964.4	1747.0
17.5°	1714.1	1710.2	1716.7	1722.6	1793.5	1960.1	2300.9	2648.6	2510.6	2043.4	1777.8
20°	1755.5	1750.4	1749.6	1744.9	1774.3	1887.9	2163.0	2653.3	2623.0	2115.2	1804.2
22.5°	1876.4	1870.4	1849.5	1830.6	1833.2	1897.8	2101.5	2606.4	2707.5	2182.2	1820.8
25°	2095.5	2085.7	2042.1	1978.9	1938.8	1966.1	2110.9	2544.5	2788.3	2234.7	1812.7
27.5°	2369.7	2356.9	2300.9	2207.0	2115.2	2081.9	2178.7	2501.7	2855.3	2274.9	1795.2
30°	2638.4	2621.7	2566.6	2493.6	2359.4	2254.4	2301.3	2520.5	2935.2	2316.7	1772.1
32.5°	2928.4	2912.6	2839.6	2749.0	2637.9	2496.6	2469.2	2612.3	3033.1	2375.2	1755.9
35°	3295.3	3270.6	3166.7	3043.3	2925.5	2782.4	2696.5	2770.8	3163.4	2464.5	1764.9
37.5°	3713.1	3679.7	3567.8	3397.4	3243.6	3083.4	2973.2	2988.6	3354.2	2584.1	1792.6
40°	4106.9	4076.5	3973.2	3812.6	3619.5	3425.1	3307.7	3273.5	3617.8	2729.8	1841.3
42.5°	4343.0	4315.8	4272.2	4204.2	4041.5	3843.3	3695.1	3621.2	3929.6	2904.0	1900.8
45°	4356.2	4332.4	4390.9	4469.9	4437.8	4305.9	4125.2	3989.8	4242.7	3067.6	1962.3
47.5°	4144.5	4128.2	4305.9	4581.9	4719.4	4774.9	4608.3	4327.7	4501.1	3185.1	1987.5
50°	3567.0	3561.0	3926.6	4433.2	4826.5	5185.8	5117.8	4642.0	4701.5	3245.8	1963.5
52.5°	3092.8	3071.1	3284.2	3957.3	4670.6	5402.0	5615.9	4950.4	4841.5	3257.2	1907.5
55°	2345.8	2326.5	2594.0	3161.2	4168.0	5325.1	5980.3	5268.6	4941.9	3227.8	1807.2
57.5°	1258.3	1246.4	1584.2	2104.0	3258.2	4863.7	6046.1	5605.2	5026.5	3149.6	1666.6
60°	489.9	487.8	614.2	1020.8	1980.2	3956.9	5714.2	5807.2	5079.4	3053.6	1549.2
62.5°	296.4	302.8	323.4	458.3	874.7	2458.2	4949.1	5577.4	5114.9	2965.5	1452.2
65°	245.2	245.6	248.2	314.8	419.0	1028.5	3725.9	4821.4	5027.3	2808.8	1314.7
67.5°	210.1	214.0	223.9	249.9	295.6	451.0	2145.0	3734.8	4494.7	2444.0	1100.3
70°	165.7	170.9	183.3	205.4	228.1	282.3	792.7	2485.0	3433.6	1842.2	832.1
72.5°	139.7	139.2	145.7	167.0	181.1	198.6	304.9	1392.5	1995.6	879.4	411.7
75°	108.0	112.3	120.4	139.7	148.2	143.9	165.3	508.7	715.0	266.5	140.1
77.5°	84.6	87.9	95.2	114.1	122.6	102.1	95.2	181.9	229.8	95.6	63.2
80°	38.0	41.0	64.9	84.2	99.9	70.5	51.7	93.1	102.1	43.6	32.1
82.5°	6.9	11.6	38.0	44.4	51.2	45.7	27.0	48.3	50.0	17.5	11.1
85°	0.4	0.8	13.2	16.2	20.5	15.0	8.1	19.3	16.7	5.9	4.3
87.5°	0.0	0.0	0.0	0.4	0.4	2.2	2.6	3.4	2.6	2.2	1.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1642.4	1581.7	1522.7	1474.5	1446.3	1398.4	1366.8	1361.7	1348.5	1360.0
5°	1610.7	1502.2	1392.5	1294.2	1213.5	1109.3	1031.6	998.7	970.1	979.8
7.5°	1595.7	1424.4	1253.7	1085.8	913.2	746.6	622.8	571.0	531.8	537.3
10°	1575.7	1343.8	1075.9	819.7	588.6	424.1	338.8	307.1	289.6	290.0
12.5°	1560.3	1247.2	869.6	555.7	358.3	270.8	244.4	236.7	231.5	232.0
15°	1552.6	1133.6	665.9	370.3	256.2	229.4	222.9	219.6	216.2	215.7
17.5°	1539.8	1007.2	487.4	270.4	224.3	214.8	209.3	205.4	201.2	200.3
20°	1520.6	863.7	356.2	228.5	210.1	202.8	195.2	190.0	184.9	184.1
22.5°	1485.1	712.1	273.8	211.5	199.9	191.8	182.3	176.4	171.3	170.5
25°	1419.3	569.8	230.6	200.8	191.0	181.1	170.9	162.8	158.1	157.2
27.5°	1336.1	447.6	209.3	191.0	179.4	170.5	158.9	151.2	146.9	146.1
30°	1237.8	344.7	196.9	179.8	165.7	158.1	147.8	141.3	138.8	138.8
32.5°	1131.9	275.5	191.8	168.7	153.8	145.2	137.1	134.6	133.7	133.2
35°	1032.4	239.2	189.2	159.8	143.1	135.0	131.5	132.0	133.7	133.7
37.5°	943.9	227.7	188.0	153.3	133.7	126.4	128.5	132.4	130.7	130.7
40°	864.1	229.0	187.1	148.6	126.0	121.8	126.0	123.0	118.7	118.3
42.5°	803.0	239.6	185.4	144.8	121.3	118.3	116.6	111.9	111.5	112.3
45°	758.6	249.0	184.9	143.1	116.1	110.6	108.4	103.8	112.3	114.5
47.5°	706.0	249.0	184.9	137.1	107.6	105.5	102.1	97.0	105.5	107.6
50°	638.2	233.2	177.7	130.3	100.8	99.5	93.6	87.1	85.4	86.7
52.5°	552.3	204.6	159.3	120.8	94.0	91.4	84.2	79.4	78.2	78.2
55°	454.5	171.3	134.6	107.2	86.7	82.0	76.9	74.7	73.5	72.6
57.5°	369.5	140.5	108.0	95.2	79.8	73.9	72.2	69.6	67.4	66.2
60°	303.3	110.6	89.3	84.6	73.1	67.4	67.0	63.7	58.1	57.2
62.5°	234.1	81.2	75.1	73.5	66.2	61.5	60.7	53.8	45.3	43.6
65°	165.3	63.2	60.7	64.5	58.9	54.6	52.6	42.3	33.3	32.1
67.5°	116.1	53.0	47.9	56.4	51.2	45.7	44.4	35.9	27.8	27.0
70°	82.8	43.2	39.3	48.3	41.0	40.2	37.6	29.9	22.7	21.8
72.5°	58.5	32.9	30.3	41.8	28.2	34.6	30.7	23.1	17.1	16.2
75°	43.2	23.5	21.3	24.4	20.5	26.0	21.8	15.4	10.7	10.2
77.5°	31.6	15.0	12.8	12.0	12.0	16.2	12.0	6.5	4.7	4.3
80°	22.2	6.9	5.9	5.1	4.7	3.9	1.7	0.8	0.4	0.4
82.5°	13.2	3.0	3.0	2.2	1.3	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	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

(END OF REPORT)