

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: P961298

Luminaire Tested: **NAV-SB2A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961298
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-SB2A-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6475.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

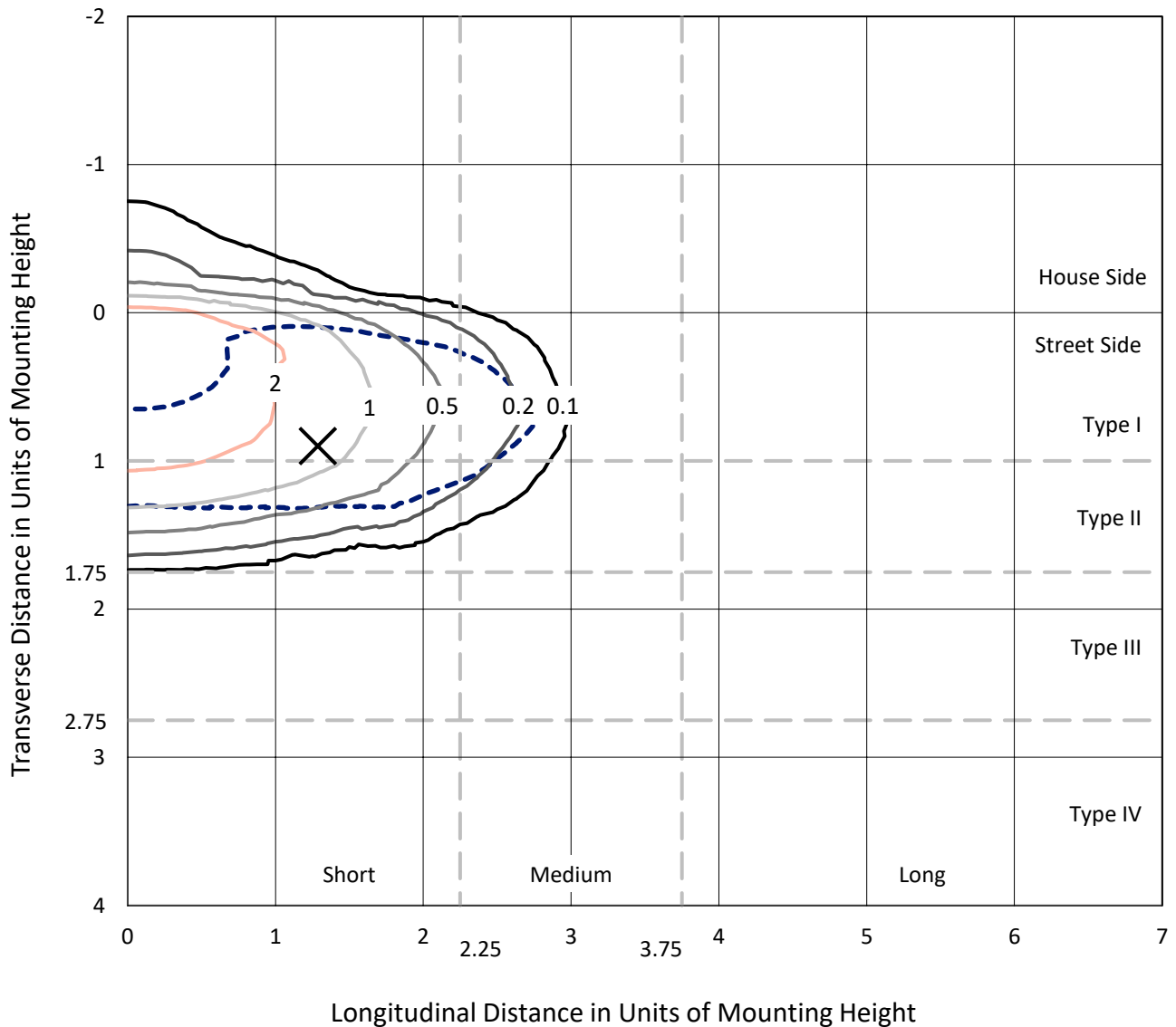
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

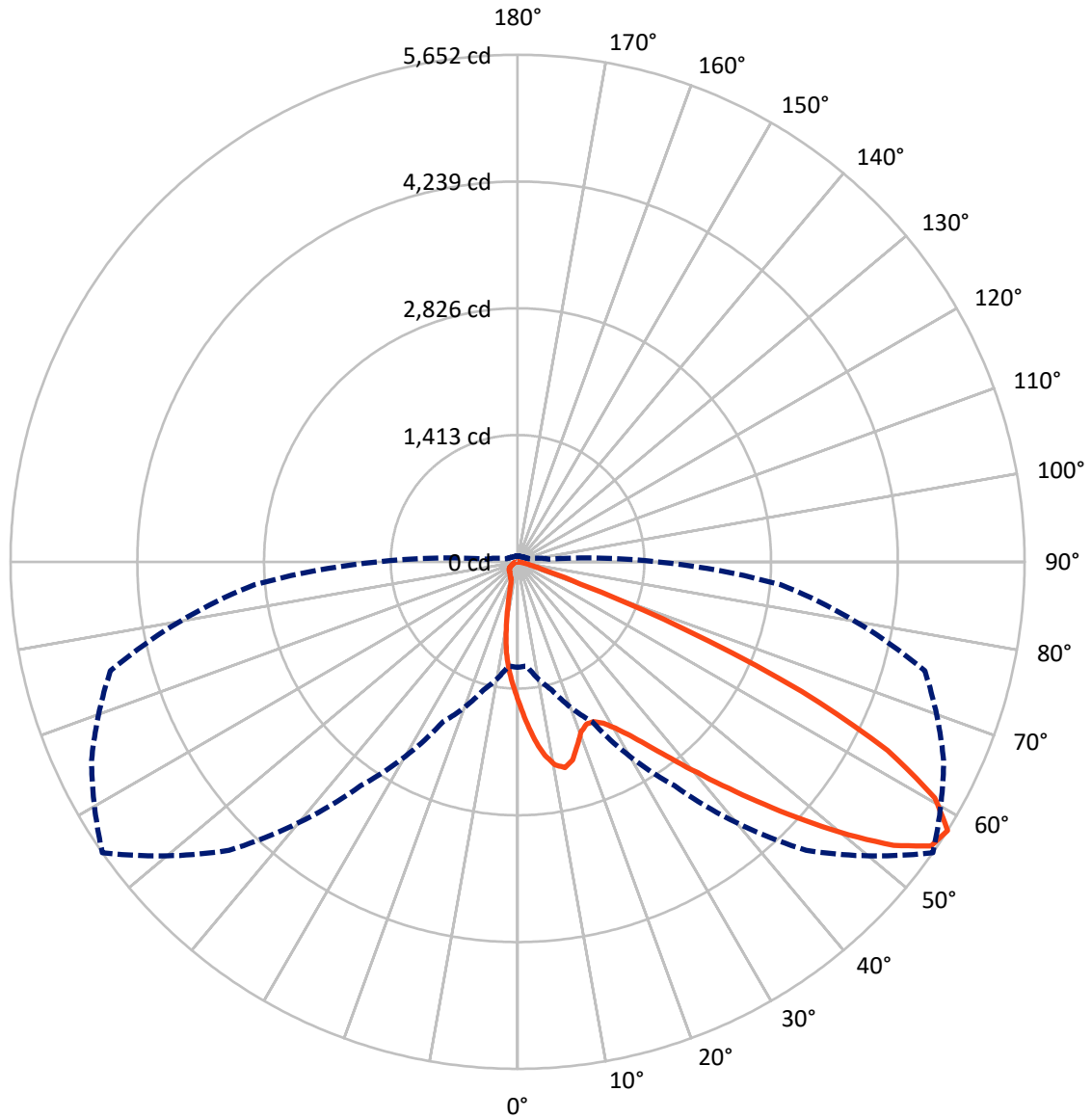
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.7	0.0	505.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	5970.2	0.0	5970.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	6475.9	0.0	6475.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	2.2
10°-20°	350.7	5.4
20°-30°	561.2	8.7
30°-40°	949.8	14.7
40°-50°	1559.4	24.1
50°-60°	1713.9	26.5
60°-70°	983.1	15.2
70°-80°	200.9	3.1
80°-90°	11.8	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°	6475.9	100.0
0°-180°	6475.9	100.0

Coefficient of Utilization

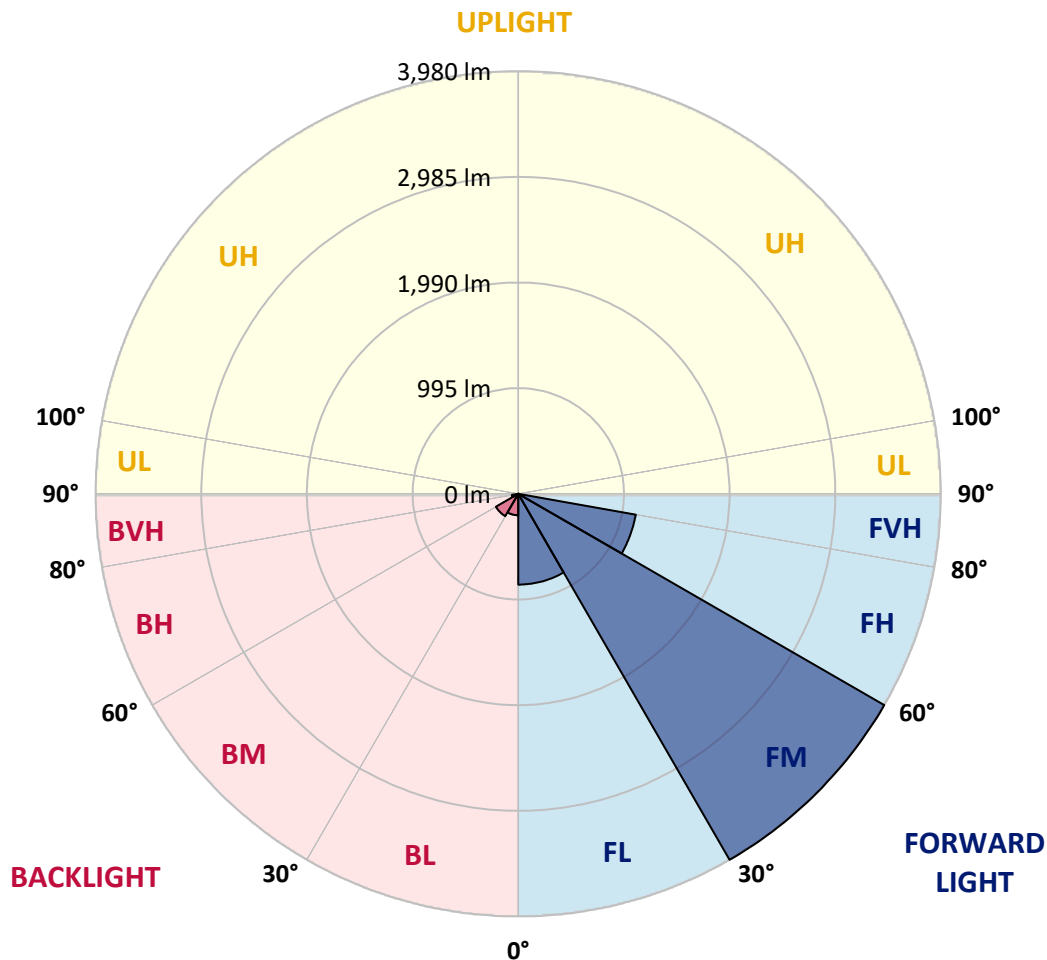


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.2	13.2			
FM (30°-60°)	3980.2	61.5			
FH (60°-80°)	1123.8	17.4			G1/1800
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	201.9	3.1	B1/500		
BM (30°-60°)	242.9	3.8	B1/1000		
BH (60°-80°)	60.1	0.9	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6
2.5°	1936.3	1911.9	1908.3	1903.5	1857.2	1822.4	1772.2	1717.1	1655.2	1592.1	1564.1
5°	2237.0	2217.8	2214.2	2191.9	2139.2	2080.0	1990.7	1877.6	1762.2	1626.5	1568.1
7.5°	2295.3	2291.7	2308.1	2307.3	2300.1	2253.4	2177.9	2043.3	1870.0	1668.8	1578.5
10°	2035.3	2044.6	2093.3	2136.0	2251.4	2318.4	2302.0	2191.0	1981.0	1717.1	1590.1
12.5°	1798.6	1787.8	1822.4	1870.8	2005.0	2204.7	2353.6	2314.4	2108.0	1771.8	1607.3
15°	1649.9	1645.6	1665.2	1687.6	1789.8	1991.1	2293.7	2414.7	2230.2	1836.5	1633.2
17.5°	1602.5	1598.9	1604.8	1610.5	1676.8	1832.5	2151.2	2476.2	2347.2	1910.4	1661.9
20°	1641.2	1636.4	1635.6	1631.2	1658.8	1764.9	2022.1	2480.6	2452.2	1977.4	1686.7
22.5°	1754.2	1748.6	1729.1	1711.4	1713.9	1774.2	1964.6	2436.6	2531.3	2040.2	1702.3
25°	1959.1	1949.9	1909.2	1850.0	1812.5	1838.0	1973.4	2378.7	2606.8	2089.3	1694.7
27.5°	2215.4	2203.4	2151.2	2063.3	1977.4	1946.3	2037.0	2338.8	2669.4	2126.8	1678.3
30°	2466.6	2451.0	2399.5	2331.3	2205.8	2107.6	2151.6	2356.4	2744.1	2165.9	1656.8
32.5°	2737.8	2723.0	2654.6	2570.0	2466.3	2334.0	2308.5	2442.3	2835.6	2220.7	1641.6
35°	3080.7	3057.6	2960.6	2845.2	2734.9	2601.1	2520.9	2590.4	2957.3	2304.1	1649.9
37.5°	3471.3	3440.1	3335.6	3176.2	3032.5	2882.7	2779.7	2794.0	3135.9	2415.9	1676.0
40°	3839.4	3811.2	3714.5	3564.3	3383.8	3202.1	3092.3	3060.3	3382.3	2552.0	1721.5
42.5°	4060.3	4034.7	3994.0	3930.5	3778.4	3593.0	3454.6	3385.5	3673.7	2715.0	1776.9
45°	4072.6	4050.3	4105.0	4178.9	4148.9	4025.6	3856.7	3730.1	3966.4	2868.0	1834.4
47.5°	3874.6	3859.4	4025.6	4283.5	4412.1	4464.0	4308.3	4045.9	4208.0	2977.7	1858.0
50°	3334.7	3329.1	3670.9	4144.6	4512.4	4848.1	4784.7	4339.8	4395.3	3034.4	1835.7
52.5°	2891.5	2871.1	3070.4	3699.7	4366.6	5050.2	5250.3	4628.1	4526.3	3045.2	1783.4
55°	2193.1	2175.0	2425.0	2955.4	3896.5	4978.3	5590.9	4925.6	4620.2	3017.7	1689.5
57.5°	1176.4	1165.2	1481.1	1967.1	3046.0	4547.1	5652.4	5240.3	4699.2	2944.6	1558.1
60°	458.0	456.0	574.2	954.4	1851.3	3699.3	5342.1	5429.1	4748.7	2854.7	1448.3
62.5°	277.2	283.1	302.3	428.4	817.8	2298.0	4627.0	5214.3	4781.8	2772.5	1357.7
65°	229.2	229.6	232.0	294.3	391.8	961.6	3483.3	4507.5	4700.0	2625.9	1229.1
67.5°	196.5	200.1	209.2	233.6	276.3	421.7	2005.4	3491.7	4202.1	2284.9	1028.7
70°	155.0	159.7	171.3	192.1	213.2	263.9	741.2	2323.3	3210.1	1722.3	777.9
72.5°	130.6	130.2	136.1	156.1	169.3	185.7	285.2	1301.8	1865.6	822.2	385.0
75°	101.1	105.1	112.6	130.6	138.6	134.6	154.6	475.6	668.5	249.2	131.0
77.5°	79.0	82.3	89.1	106.6	114.6	95.4	89.1	170.1	214.8	89.5	59.1
80°	35.6	38.3	60.7	78.6	93.5	65.9	48.3	87.0	95.4	40.7	29.9
82.5°	6.4	10.8	35.6	41.5	47.9	42.7	25.1	45.1	46.7	16.4	10.4
85°	0.4	0.8	12.4	15.2	19.2	13.9	7.6	17.9	15.6	5.6	4.0
87.5°	0.0	0.0	0.0	0.4	0.4	1.9	2.4	3.2	2.4	1.9	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6	1560.6
2.5°	1535.3	1478.7	1423.6	1378.4	1352.1	1307.4	1277.9	1273.0	1260.6	1271.4
5°	1505.8	1404.5	1301.8	1209.9	1134.5	1037.0	964.3	933.6	906.8	916.0
7.5°	1491.9	1331.8	1172.0	1015.1	853.7	698.0	582.2	533.9	497.1	502.4
10°	1473.1	1256.2	1005.9	766.3	550.2	396.6	316.6	287.1	270.7	271.1
12.5°	1458.7	1166.0	813.0	519.5	335.1	253.2	228.4	221.2	216.5	216.8
15°	1451.5	1059.7	622.6	346.2	239.5	214.4	208.5	205.2	202.0	201.6
17.5°	1439.5	941.6	455.6	252.8	209.6	200.9	195.7	192.1	188.1	187.3
20°	1421.6	807.4	333.0	213.6	196.5	189.7	182.4	177.7	172.9	172.1
22.5°	1388.5	665.6	255.9	197.6	186.9	179.3	170.6	164.9	160.1	159.3
25°	1327.0	532.7	215.7	187.7	178.5	169.3	159.7	152.1	147.7	147.0
27.5°	1249.1	418.5	195.7	178.5	167.7	159.3	148.5	141.3	137.4	136.5
30°	1157.2	322.3	184.1	168.1	155.0	147.7	138.2	132.2	129.8	129.8
32.5°	1058.2	257.6	179.3	157.7	143.7	135.8	128.2	125.8	124.9	124.5
35°	965.1	223.7	176.9	149.3	133.8	126.2	123.0	123.4	124.9	124.9
37.5°	882.5	212.8	175.7	143.4	124.9	118.2	120.2	123.8	122.2	122.2
40°	807.8	214.0	174.9	139.0	117.8	113.8	117.8	115.0	111.0	110.6
42.5°	750.7	224.1	173.3	135.4	113.4	110.6	109.1	104.7	104.2	105.1
45°	709.2	232.8	172.9	133.8	108.6	103.4	101.5	97.1	105.1	107.0
47.5°	660.1	232.8	172.9	128.2	100.7	98.6	95.4	90.6	98.6	100.7
50°	596.6	218.0	166.2	121.8	94.2	93.1	87.4	81.5	79.8	81.1
52.5°	516.3	191.3	148.9	113.1	87.8	85.5	78.6	74.3	73.1	73.1
55°	424.9	160.1	125.8	100.2	81.1	76.7	71.9	69.9	68.7	67.9
57.5°	345.4	131.4	101.1	89.1	74.7	69.1	67.4	65.1	63.1	61.9
60°	283.5	103.4	83.4	79.0	68.3	63.1	62.7	59.4	54.3	53.5
62.5°	218.8	75.8	70.3	68.7	61.9	57.5	56.7	50.3	42.3	40.7
65°	154.6	59.1	56.7	60.3	55.1	51.1	49.1	39.6	31.2	29.9
67.5°	108.6	49.5	44.7	52.7	47.9	42.7	41.5	33.5	25.9	25.1
70°	77.5	40.3	36.7	45.1	38.3	37.5	35.2	28.0	21.1	20.4
72.5°	54.7	30.7	28.4	39.2	26.3	32.4	28.7	21.5	16.0	15.2
75°	40.3	21.9	20.0	22.8	19.2	24.4	20.4	14.3	9.9	9.5
77.5°	29.5	13.9	12.0	11.2	11.2	15.2	11.2	5.9	4.4	4.0
80°	20.8	6.4	5.6	4.8	4.4	3.6	1.6	0.8	0.4	0.4
82.5°	12.4	2.8	2.8	1.9	1.2	0.0	0.0	0.0	0.0	0.0
85°	2.8	1.2	1.2	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)