

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: P960259

Luminaire Tested: **NAV-SB1C-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5371 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

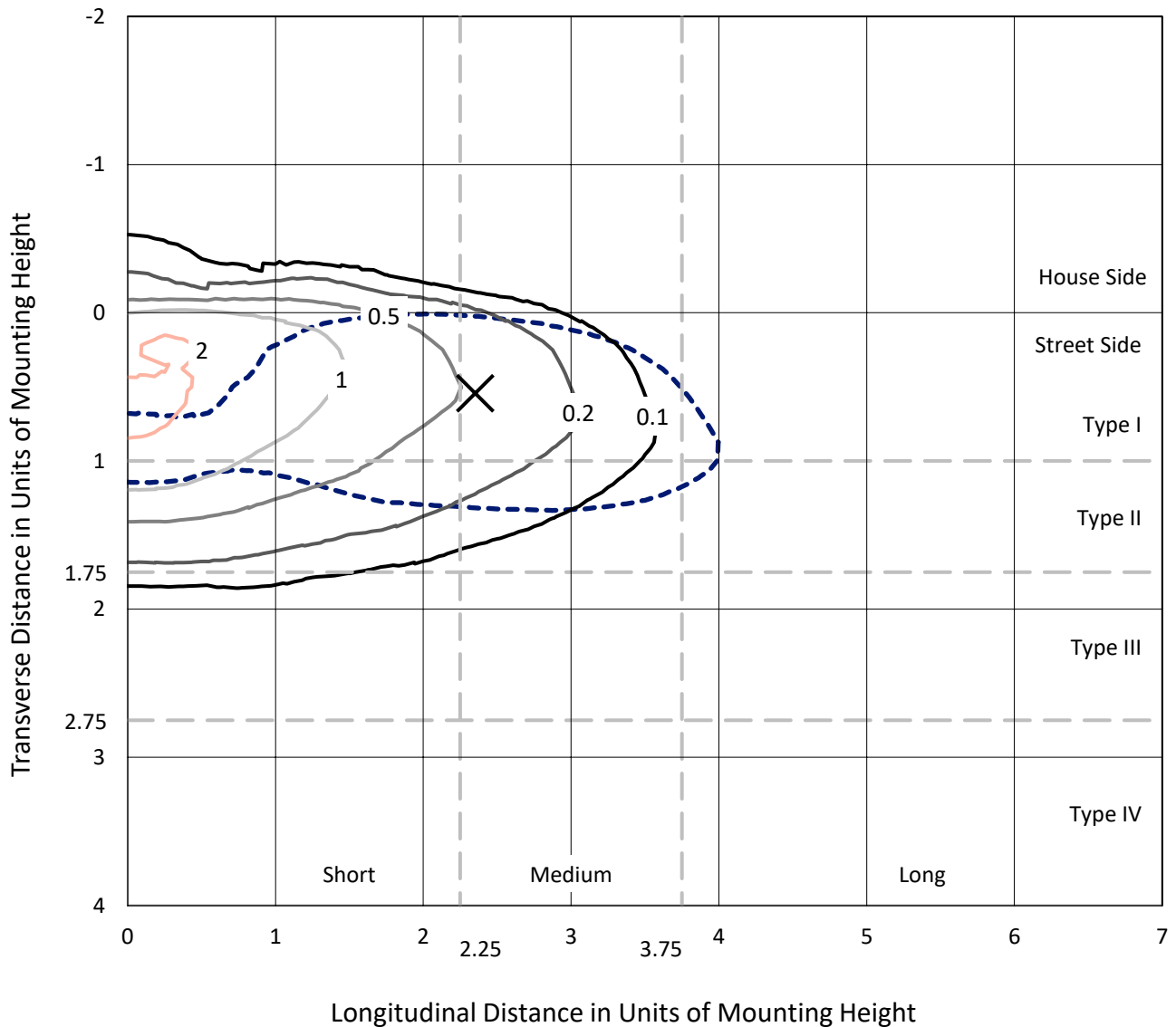
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

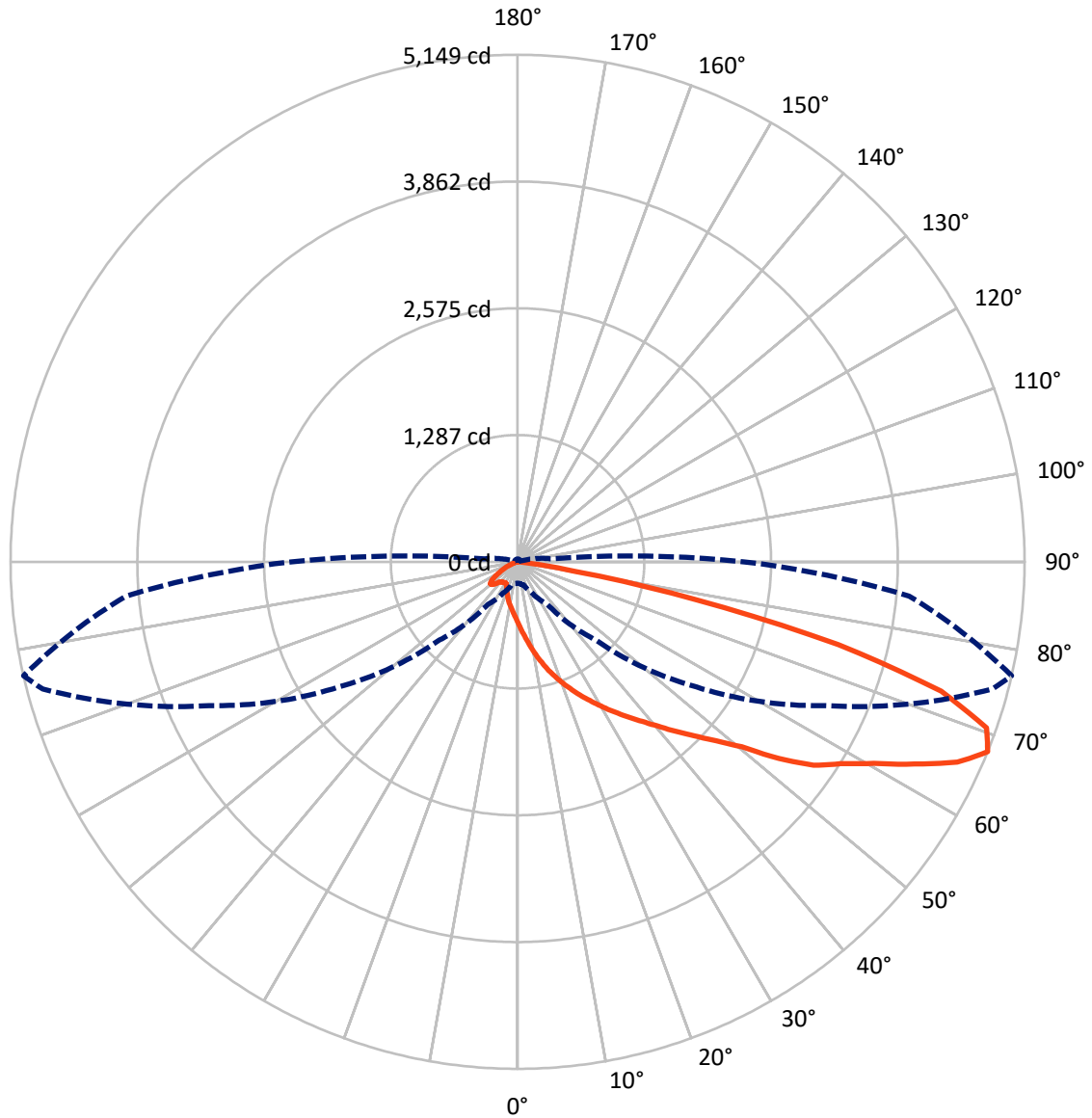
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	395.2	0.0	395.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4975.9	0.0	4975.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	5371.0	0.0	5371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.2
10°-20°	221.4	4.1
20°-30°	427.2	8.0
30°-40°	741.6	13.8
40°-50°	1076.8	20.0
50°-60°	1236.6	23.0
60°-70°	1073.6	20.0
70°-80°	505.7	9.4
80°-90°	25.0	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°	5371.0	100.0
0°-180°	5371.0	100.0

Coefficient of Utilization

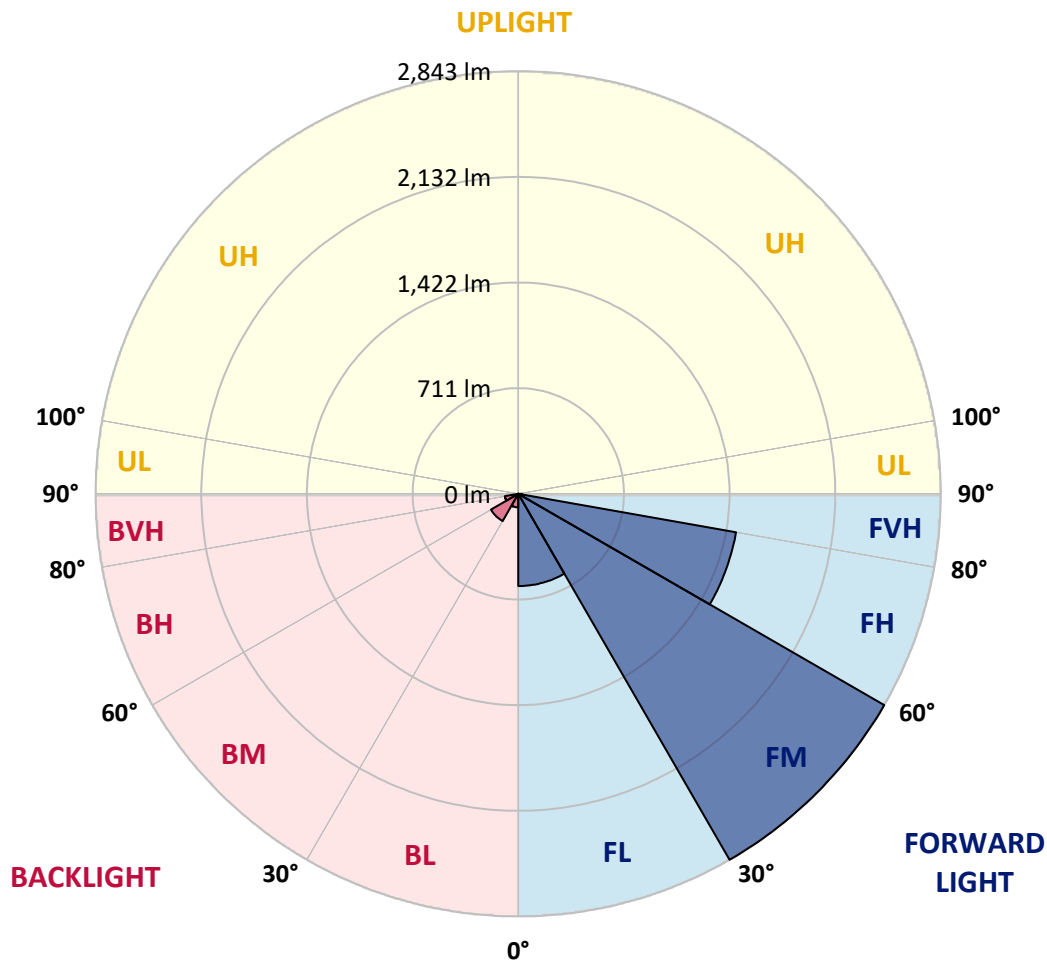


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.3	11.5			
FM (30°-60°)	2843.3	52.9			
FH (60°-80°)	1487.8	27.7			G1/1800
FVH (80°-90°)	24.5	0.5			G1/100
BL (0°-30°)	91.5	1.7	B0/110		
BM (30°-60°)	211.7	3.9	B0/220		
BH (60°-80°)	91.5	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	857.5	862.8	855.2	840.5	818.5	804.1	769.1	736.1	699.4	687.8	651.1
5°	1045.3	1049.9	1041.3	1025.2	995.9	967.9	921.9	852.8	781.2	758.1	693.1
7.5°	1184.4	1187.1	1183.7	1169.0	1141.0	1109.3	1057.9	976.2	869.8	844.5	744.8
10°	1284.4	1293.0	1292.1	1286.4	1267.7	1242.1	1187.4	1094.3	969.2	936.5	803.1
12.5°	1350.7	1360.5	1366.1	1378.8	1377.8	1361.4	1313.4	1215.0	1068.3	1029.9	868.8
15°	1370.1	1380.5	1402.1	1431.5	1457.6	1465.9	1432.1	1333.4	1177.3	1128.3	936.2
17.5°	1359.1	1375.1	1401.2	1447.5	1504.5	1542.2	1538.5	1447.8	1276.4	1220.4	1002.2
20°	1383.4	1398.8	1419.1	1458.2	1524.6	1593.0	1620.2	1557.2	1374.8	1316.1	1071.6
22.5°	1518.2	1515.6	1517.5	1523.9	1563.5	1631.3	1687.7	1656.6	1472.2	1412.1	1145.0
25°	1731.6	1719.6	1699.3	1664.9	1655.0	1687.7	1746.3	1744.7	1574.9	1510.5	1220.1
27.5°	1976.5	1974.5	1926.8	1844.1	1797.3	1784.7	1812.7	1830.3	1676.6	1607.9	1295.4
30°	2210.9	2216.3	2151.9	2059.8	1974.2	1924.4	1899.1	1911.7	1780.0	1713.0	1373.1
32.5°	2415.0	2420.7	2350.6	2242.9	2136.9	2076.9	2023.5	1992.2	1892.8	1819.7	1458.5
35°	2587.5	2593.1	2512.8	2393.7	2280.6	2226.3	2165.9	2080.2	2006.1	1938.1	1553.6
37.5°	2741.6	2739.9	2632.2	2512.1	2401.1	2358.0	2326.3	2188.6	2122.9	2057.2	1659.0
40°	2832.6	2839.7	2747.6	2615.2	2507.5	2476.1	2474.0	2323.0	2257.7	2193.9	1774.4
42.5°	2859.3	2871.6	2804.9	2696.3	2598.5	2564.4	2616.8	2468.4	2414.4	2352.4	1904.8
45°	2811.3	2823.3	2792.9	2717.6	2660.5	2638.6	2739.6	2619.2	2581.8	2520.5	2051.8
47.5°	2671.1	2686.2	2693.5	2677.5	2676.9	2699.2	2849.6	2778.0	2780.6	2717.9	2222.3
50°	2400.0	2425.4	2492.8	2549.5	2637.2	2747.2	2956.7	2950.1	3004.7	2950.7	2444.4
52.5°	1907.1	1943.1	2175.3	2330.3	2527.4	2738.3	3074.4	3226.2	3398.0	3319.0	2757.6
55°	1532.6	1532.6	1721.3	2011.5	2313.3	2678.8	3125.8	3405.7	3665.8	3647.1	2978.0
57.5°	1249.4	1264.4	1384.8	1641.2	2003.5	2537.5	3157.5	3518.3	3881.6	3867.8	3193.5
60°	771.1	803.5	1030.9	1284.1	1651.0	2285.6	3137.4	3632.4	4143.4	4154.4	3453.0
62.5°	434.3	446.3	547.7	923.8	1283.7	1947.1	2984.4	3696.2	4478.2	4525.0	3720.4
65°	299.8	305.9	344.9	575.0	889.8	1550.2	2685.2	3656.4	4813.8	4908.1	3947.3
67.5°	217.8	220.8	245.2	351.2	528.0	1124.0	2216.3	3456.3	4991.5	5149.3	3990.6
70°	167.4	169.4	187.1	230.8	311.8	693.7	1609.6	3058.4	4862.8	5051.2	3768.5
72.5°	136.1	138.1	151.8	170.8	206.7	410.2	975.6	2483.8	4294.4	4497.9	3208.1
75°	114.7	117.4	129.8	142.1	162.1	263.5	457.6	1729.7	3229.6	3362.9	2230.9
77.5°	63.7	58.7	105.4	117.8	136.7	166.8	214.1	1017.9	1808.7	1845.7	989.9
80°	39.7	41.0	83.7	94.7	105.1	84.0	98.1	391.9	627.0	595.6	191.8
82.5°	2.4	5.3	64.4	68.4	72.1	36.0	37.0	133.0	151.1	138.8	34.0
85°	0.0	0.0	29.3	23.7	25.0	10.4	10.7	31.1	20.3	22.0	6.7
87.5°	0.0	0.0	0.0	0.7	0.0	1.0	2.0	2.7	1.0	1.3	2.4
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°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	627.7	604.3	557.0	510.7	472.9	437.9	412.9	389.2	377.2	376.6	375.9
5°	646.7	597.7	503.0	419.2	351.9	297.9	262.8	237.8	225.1	220.8	220.2
7.5°	673.4	599.7	455.6	339.2	259.8	213.4	193.4	185.4	182.8	179.8	179.1
10°	707.0	604.3	413.3	273.2	204.8	181.4	173.4	170.0	168.1	166.0	165.4
12.5°	744.8	608.6	371.3	226.8	180.1	168.1	162.5	158.5	155.8	153.4	152.7
15°	781.5	611.3	327.5	194.4	167.4	157.7	151.8	147.4	143.7	141.0	140.7
17.5°	817.8	615.0	286.5	175.1	157.1	147.4	141.4	136.1	133.0	130.1	129.8
20°	858.1	614.4	247.8	161.4	146.8	137.0	130.8	125.8	122.7	119.4	119.1
22.5°	895.5	611.0	213.8	149.8	136.1	126.7	119.7	114.7	111.7	109.1	108.8
25°	938.5	608.3	185.4	139.1	126.1	116.7	109.1	104.3	101.1	98.7	98.4
27.5°	979.9	604.3	164.7	129.5	116.4	107.4	100.0	94.7	91.7	90.1	90.1
30°	1020.6	603.3	157.1	120.0	107.7	98.7	91.4	86.4	84.0	83.3	83.0
32.5°	1069.6	606.0	160.4	116.7	99.7	90.7	83.7	80.1	77.7	77.7	77.7
35°	1122.0	605.4	165.4	119.7	94.4	82.7	77.4	75.0	72.7	72.7	72.7
37.5°	1187.7	606.4	169.4	124.7	92.4	76.1	73.1	70.0	68.7	68.7	68.7
40°	1285.8	639.4	167.4	129.0	91.7	71.3	65.4	64.4	63.3	63.3	63.3
42.5°	1405.8	711.0	170.0	129.5	91.4	68.1	60.1	62.0	59.7	59.3	59.0
45°	1537.2	789.5	187.1	122.4	91.0	66.4	57.4	59.7	56.1	56.1	56.1
47.5°	1667.6	867.2	204.5	112.4	90.1	66.0	55.0	53.7	52.7	53.0	53.0
50°	1847.4	930.5	211.2	98.7	87.7	65.4	50.7	51.0	50.3	51.0	51.0
52.5°	2043.1	943.9	203.2	83.3	81.1	63.3	47.7	49.0	48.7	49.4	49.4
55°	2165.2	929.6	167.8	69.4	70.7	55.4	44.7	47.4	47.4	47.4	47.4
57.5°	2291.3	868.5	119.1	56.4	58.7	45.4	42.0	45.7	45.4	45.0	45.0
60°	2382.0	769.8	78.4	46.3	46.7	37.3	39.1	43.0	42.6	41.0	41.0
62.5°	2449.8	660.7	50.3	39.4	35.7	33.7	35.7	39.1	37.7	34.0	33.3
65°	2442.1	509.6	38.6	33.7	29.3	29.3	31.1	34.0	30.0	24.0	23.4
67.5°	2299.7	344.9	32.0	28.4	24.7	24.4	25.7	28.4	25.7	20.3	19.7
70°	2045.2	225.5	25.7	22.0	19.7	18.0	20.7	24.4	21.7	16.3	15.7
72.5°	1660.0	137.5	19.4	16.0	14.3	11.7	16.3	20.0	17.3	12.0	11.4
75°	1074.0	70.0	13.3	10.4	7.7	7.0	12.0	15.0	12.0	7.4	6.4
77.5°	410.9	29.3	7.4	4.7	4.0	3.4	6.7	9.0	5.0	1.6	1.3
80°	79.0	12.3	3.7	2.4	2.0	1.3	1.0	0.7	0.0	0.0	0.0
82.5°	13.6	4.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	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)