

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: P883078

Luminaire Tested: **NAV-SB3B-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13040 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

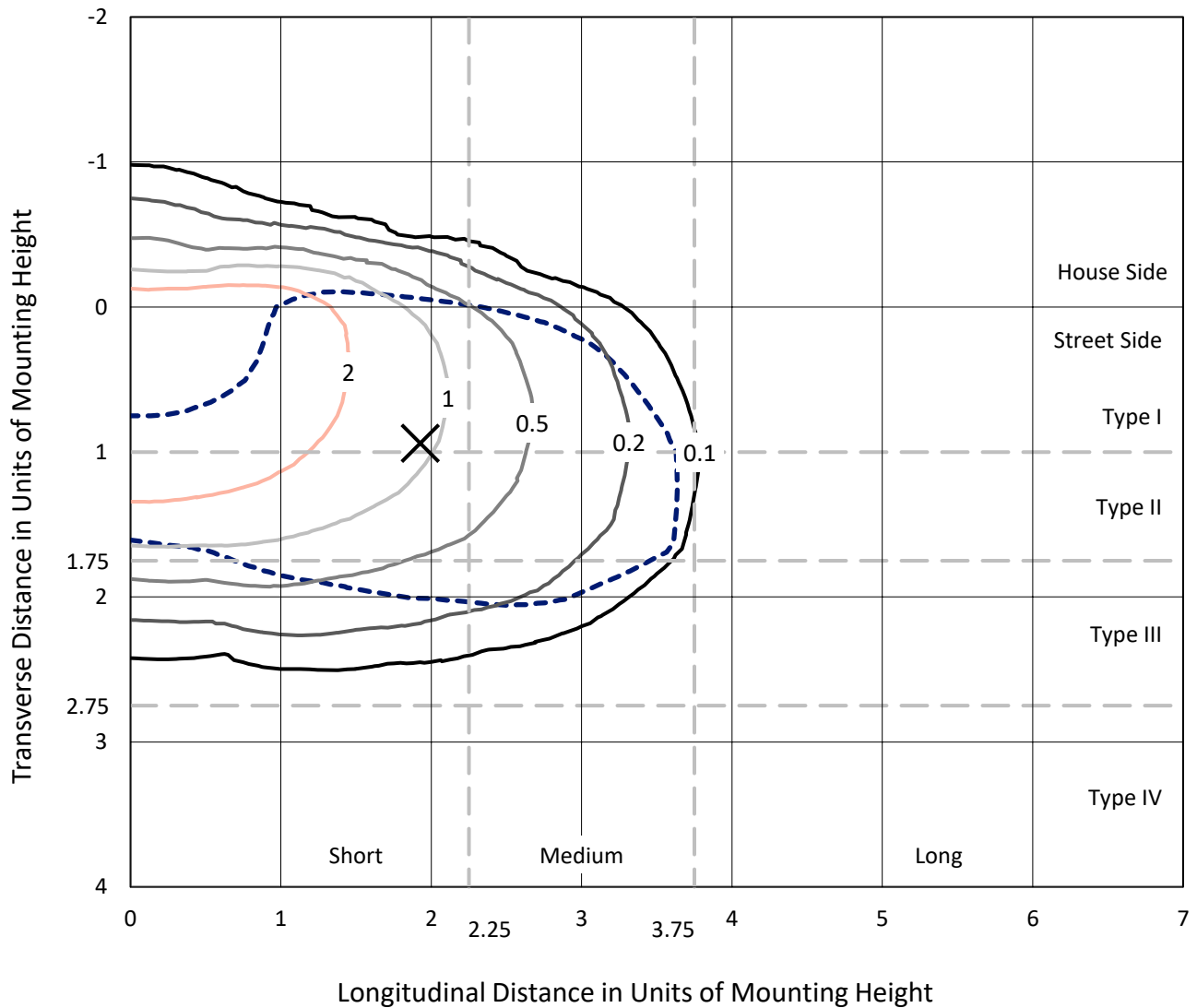
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

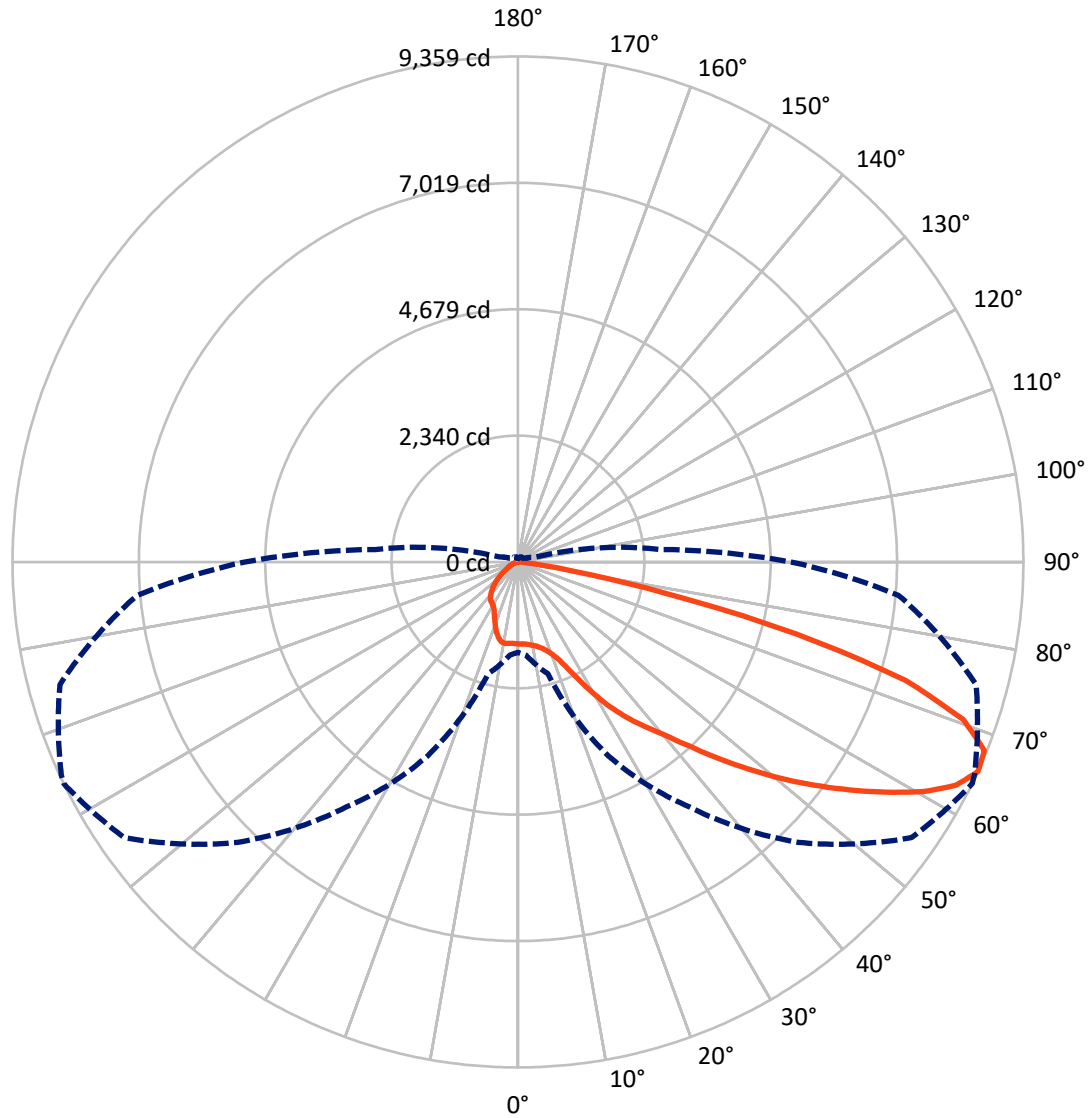
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type 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	1743.8	0.0	1743.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11296.1	0.0	11296.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	13040.0	0.0	13040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	1.1
10°-20°	379.5	2.9
20°-30°	719.2	5.5
30°-40°	1455.3	11.2
40°-50°	2479.1	19.0
50°-60°	3371.3	25.9
60°-70°	3165.9	24.3
70°-80°	1268.4	9.7
80°-90°	61.4	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°	13040.0	100.0
0°-180°	13040.0	100.0

Coefficient of Utilization



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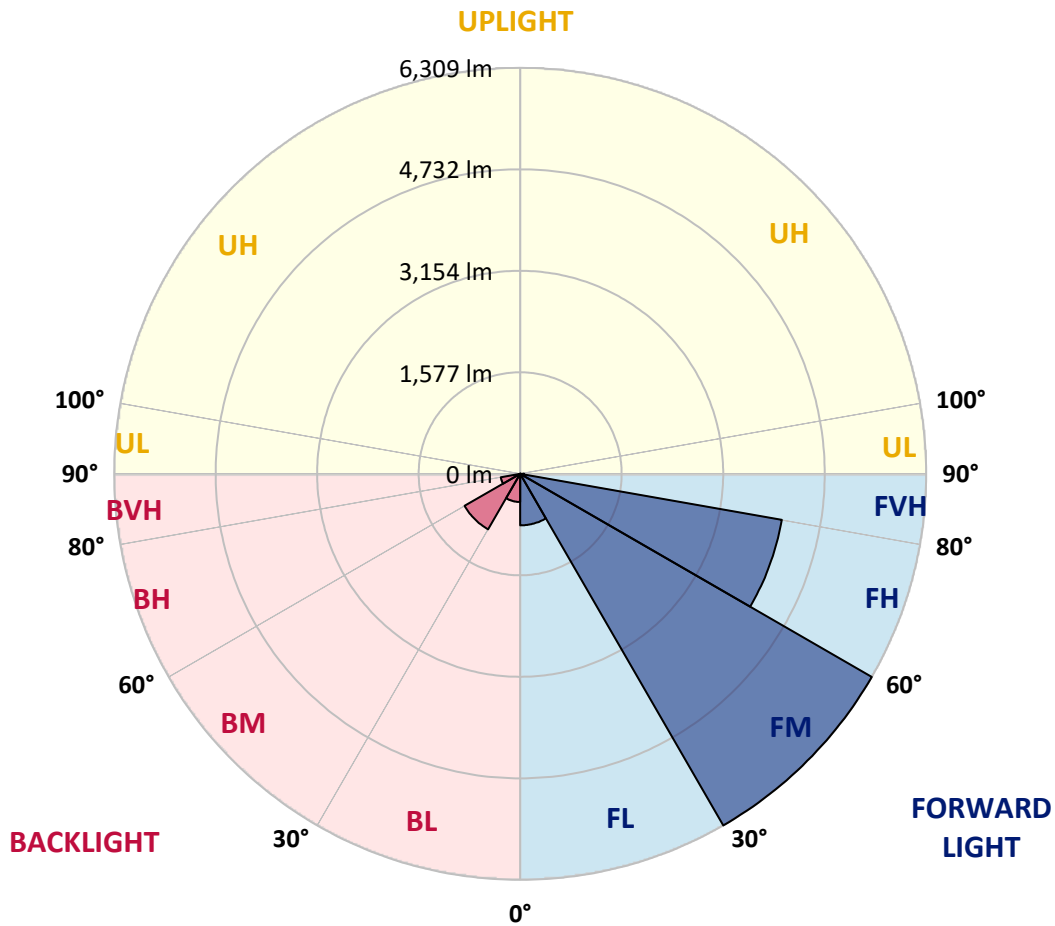
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.8	6.1			
FM (30°-60°)	6308.7	48.4			
FH (60°-80°)	4128.2	31.7			G2/5000
FVH (80°-90°)	58.4	0.4			G1/100
BL (0°-30°)	437.8	3.4	B1/500		
BM (30°-60°)	996.9	7.6	B1/1000		
BH (60°-80°)	306.1	2.3	B1/500		G1/500
BVH (80°-90°)	3.0	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7
2.5°	1511.4	1521.9	1519.3	1516.7	1515.8	1517.6	1518.4	1517.6	1517.6	1517.6	1518.4
5°	1482.6	1491.3	1491.3	1497.5	1506.2	1516.7	1524.6	1526.3	1528.1	1530.7	1529.8
7.5°	1427.5	1434.5	1439.8	1459.9	1481.7	1509.7	1533.3	1545.5	1547.3	1556.9	1560.4
10°	1389.9	1398.7	1407.4	1428.4	1459.9	1501.8	1542.0	1571.8	1576.1	1598.9	1609.3
12.5°	1388.2	1396.9	1408.3	1431.0	1467.7	1512.3	1561.3	1604.1	1612.0	1645.2	1667.0
15°	1406.5	1417.0	1427.5	1455.5	1494.8	1549.0	1601.5	1654.8	1662.7	1709.9	1733.5
17.5°	1444.1	1458.1	1466.0	1494.0	1535.9	1596.2	1665.3	1726.5	1733.5	1788.6	1818.3
20°	1518.4	1535.0	1537.7	1560.4	1601.5	1666.2	1748.3	1824.4	1833.1	1896.1	1929.3
22.5°	1672.3	1695.9	1674.9	1686.3	1723.0	1787.7	1876.8	1973.0	1985.2	2056.9	2086.6
25°	1943.3	1976.5	1922.3	1903.1	1918.8	1986.1	2098.0	2219.5	2233.5	2291.2	2306.1
27.5°	2475.7	2432.8	2350.6	2270.2	2223.0	2261.5	2387.4	2537.7	2555.2	2611.2	2593.7
30°	3060.5	3022.9	2911.9	2733.5	2621.6	2615.5	2731.8	2899.6	2919.7	2973.1	2919.7
32.5°	3646.2	3610.3	3489.7	3270.3	3076.2	2980.1	3060.5	3246.7	3257.2	3291.3	3212.6
35°	4222.2	4185.5	4064.9	3840.2	3601.6	3383.0	3367.3	3577.1	3580.6	3616.4	3499.3
37.5°	4801.8	4771.2	4642.7	4422.4	4187.3	3885.7	3739.7	3890.1	3894.4	3929.4	3807.9
40°	5215.3	5228.4	5140.1	4969.7	4767.7	4438.2	4157.6	4223.1	4196.9	4255.5	4182.9
42.5°	5570.2	5596.4	5519.5	5433.8	5316.7	5026.5	4675.1	4663.7	4621.7	4653.2	4578.0
45°	5877.1	5898.9	5829.8	5809.7	5807.1	5603.4	5240.7	5172.5	5113.9	5107.8	5017.7
47.5°	5989.8	6031.8	6061.5	6128.8	6259.9	6174.3	5825.5	5719.7	5654.1	5606.1	5463.6
50°	6032.7	6077.2	6178.6	6374.5	6684.8	6721.5	6407.7	6288.8	6208.4	6120.9	5911.1
52.5°	5975.0	6054.5	6190.9	6520.4	6970.6	7160.3	6966.3	6862.2	6770.5	6628.0	6316.8
55°	5634.9	5714.5	5993.3	6518.7	7113.1	7468.0	7494.3	7447.9	7344.8	7120.1	6644.6
57.5°	4918.1	5036.1	5477.6	6296.7	7110.5	7732.9	8011.8	8045.0	7929.6	7607.9	6902.5
60°	3925.0	4085.0	4623.5	5804.5	6891.1	7876.3	8465.5	8631.6	8509.2	8088.7	7111.4
62.5°	2738.8	2924.1	3433.7	5033.5	6389.3	7773.1	8796.8	9103.6	9011.0	8518.8	7191.8
65°	1670.5	1730.0	2140.8	3960.9	5536.1	7341.3	8899.1	9358.9	9328.3	8781.9	7072.9
67.5°	1112.8	1162.6	1280.7	2716.1	4297.4	6478.5	8654.3	9314.3	9323.0	8739.1	6637.6
70°	670.5	713.3	790.3	1579.6	2785.1	5127.9	7896.4	8746.1	8796.8	8166.5	5812.4
72.5°	276.2	305.1	375.0	715.9	1442.4	3254.5	6287.9	7509.1	7627.1	6866.6	4460.9
75°	156.5	171.3	220.3	359.3	625.9	1516.7	3808.8	5330.7	5504.7	4732.8	2683.7
77.5°	104.0	111.0	142.5	232.5	352.3	517.5	1627.7	2777.2	3109.4	2584.9	1161.8
80°	69.9	76.1	97.9	155.6	229.0	222.0	518.4	1028.9	1265.8	888.2	283.2
82.5°	47.2	48.1	69.9	102.3	145.1	107.5	153.0	319.9	402.1	257.0	107.5
85°	27.1	26.2	51.6	59.4	64.7	44.6	46.3	96.2	125.9	108.4	61.2
87.5°	3.5	5.2	20.1	15.7	8.7	9.6	9.6	16.6	24.5	26.2	13.1
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°	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7	1516.7
2.5°	1518.4	1517.6	1514.9	1512.3	1506.2	1502.7	1504.4	1502.7	1501.8	1502.7	1506.2
5°	1529.8	1527.2	1520.2	1511.4	1499.2	1484.3	1474.7	1460.7	1447.6	1439.8	1441.5
7.5°	1560.4	1557.8	1548.2	1523.7	1484.3	1422.3	1365.5	1315.6	1278.0	1256.2	1257.1
10°	1609.3	1605.0	1590.1	1535.9	1432.8	1297.3	1184.5	1091.0	1029.8	1000.9	998.3
12.5°	1667.0	1661.8	1635.6	1524.6	1334.9	1123.3	967.7	863.7	806.9	781.5	778.9
15°	1735.2	1728.2	1676.7	1470.4	1192.4	931.0	788.5	710.7	674.0	651.3	652.1
17.5°	1820.0	1807.8	1707.3	1389.1	1037.6	784.1	678.4	619.8	587.4	565.6	563.8
20°	1930.2	1910.1	1731.7	1292.0	895.2	691.5	604.1	555.1	530.6	511.4	507.9
22.5°	2084.0	2055.2	1761.5	1187.1	794.6	627.7	549.0	513.1	493.0	471.2	467.7
25°	2274.6	2240.5	1798.2	1090.1	725.6	572.6	508.8	479.0	455.4	430.1	427.5
27.5°	2541.2	2480.0	1841.9	1010.5	666.1	525.4	472.1	438.8	411.7	390.8	386.4
30°	2838.4	2737.9	1880.3	962.5	611.9	481.7	424.0	390.8	365.4	350.5	347.9
32.5°	3119.9	2983.5	1905.7	941.5	563.0	431.8	371.5	335.7	316.5	312.1	314.7
35°	3385.7	3205.6	1903.1	921.4	519.3	382.0	319.9	283.2	268.4	271.0	271.0
37.5°	3691.6	3442.5	1884.7	889.9	483.4	336.6	275.4	243.0	229.9	230.8	234.3
40°	4047.4	3716.1	1873.3	830.5	444.1	294.6	238.6	212.4	202.8	199.3	198.4
42.5°	4426.8	3981.0	1875.1	763.2	395.1	257.0	213.3	191.4	182.7	180.1	179.2
45°	4807.9	4233.6	1877.7	693.2	343.5	228.2	194.9	176.6	171.3	167.8	167.8
47.5°	5166.4	4448.7	1828.8	618.0	292.8	206.3	180.1	167.8	163.5	159.1	159.1
50°	5500.3	4592.0	1710.8	530.6	252.6	188.8	168.7	160.0	155.6	151.2	151.2
52.5°	5759.9	4614.8	1515.8	440.6	224.7	175.7	161.7	153.9	148.6	144.2	143.4
55°	5875.3	4472.3	1238.7	356.7	202.8	164.3	154.7	146.9	140.7	136.4	135.5
57.5°	5845.6	4172.4	966.0	286.7	181.8	153.0	146.0	140.7	133.7	126.8	125.9
60°	5699.6	3771.2	728.2	238.6	162.6	140.7	136.4	132.0	122.4	111.9	110.1
62.5°	5447.0	3266.8	519.3	197.6	141.6	126.8	125.0	121.5	107.5	88.3	86.5
65°	5060.6	2654.0	349.7	164.3	121.5	111.0	111.9	105.8	87.4	65.6	63.8
67.5°	4495.9	1940.7	223.8	134.6	101.4	92.7	93.5	90.0	74.3	55.9	53.3
70°	3776.4	1285.0	146.0	102.3	81.3	71.7	76.9	77.8	62.9	45.5	43.7
72.5°	2768.5	758.8	102.3	76.1	59.4	49.8	62.9	64.7	50.7	34.1	32.3
75°	1577.9	360.2	76.9	55.1	36.7	35.0	49.0	49.0	35.0	22.7	21.0
77.5°	662.6	150.4	54.2	35.8	21.0	20.1	33.2	30.6	17.5	10.5	10.5
80°	191.4	67.3	28.8	17.5	8.7	7.9	13.1	9.6	4.4	1.7	1.7
82.5°	75.2	29.7	11.4	7.0	3.5	3.5	1.7	0.0	0.0	0.0	0.0
85°	44.6	12.2	5.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	2.6	1.7	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)