

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: P883298

Luminaire Tested: **NAV-SB3C-827-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883298
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-SB3C-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 14314 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

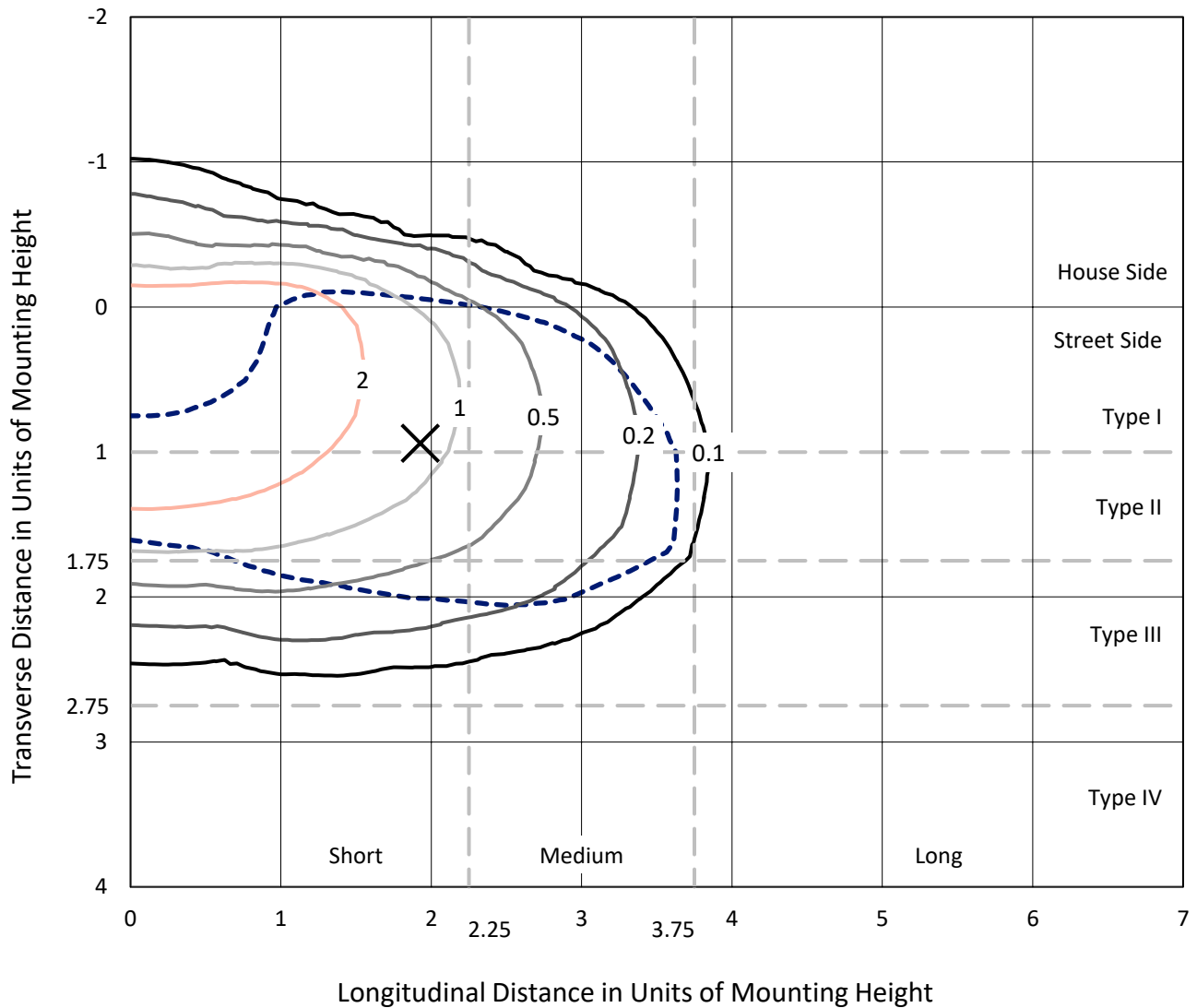
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

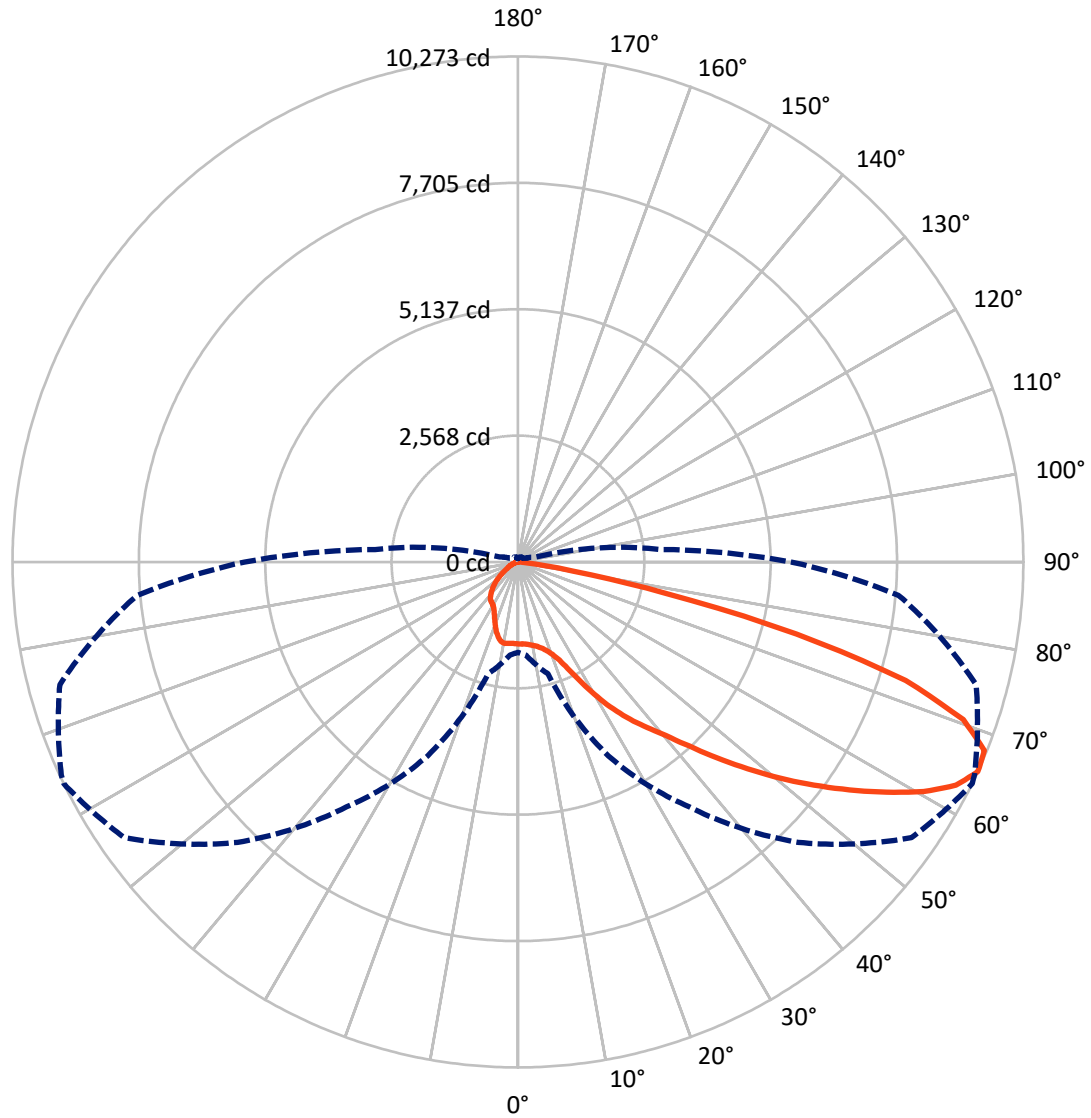
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1914.2	0.0	1914.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12399.8	0.0	12399.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	14314.0	0.0	14314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.1
10°-20°	416.6	2.9
20°-30°	789.4	5.5
30°-40°	1597.5	11.2
40°-50°	2721.3	19.0
50°-60°	3700.7	25.9
60°-70°	3475.2	24.3
70°-80°	1392.3	9.7
80°-90°	67.5	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°	14314.0	100.0
0°-180°	14314.0	100.0

Coefficient of Utilization



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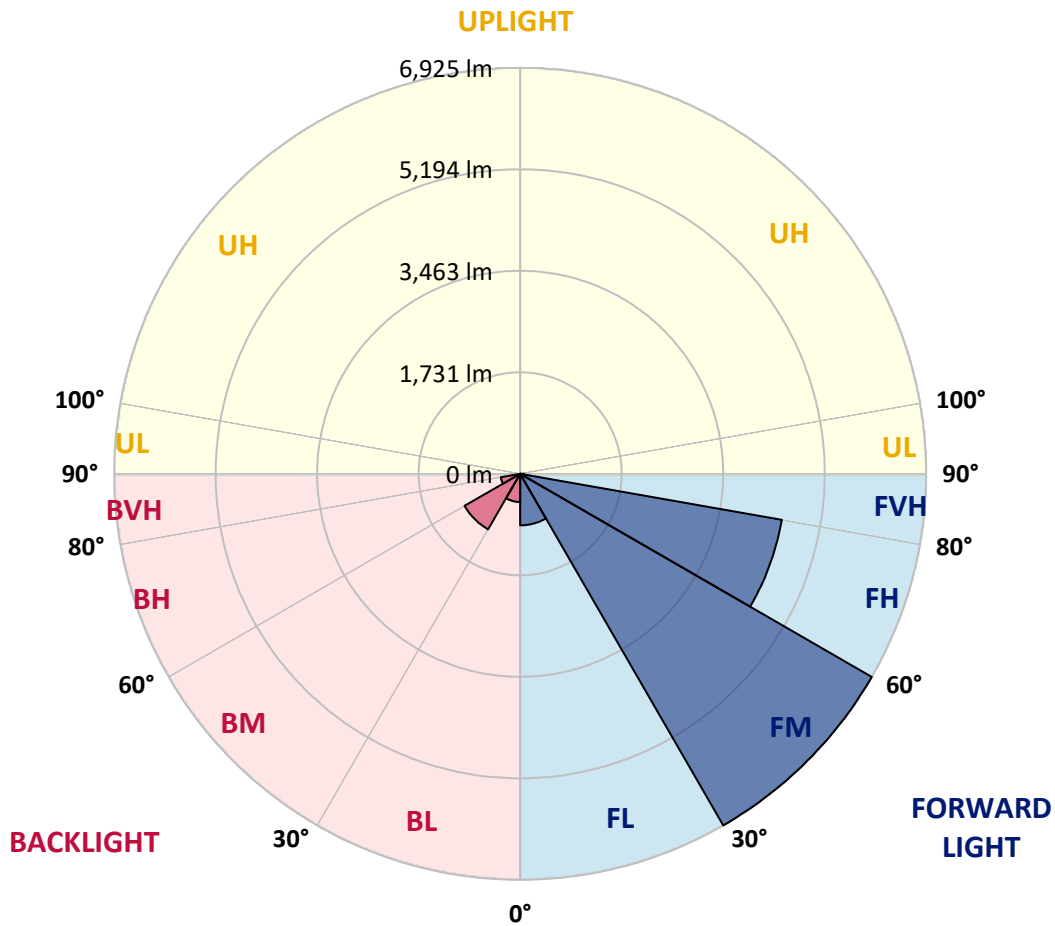
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.0	6.1			
FM (30°-60°)	6925.1	48.4			
FH (60°-80°)	4531.5	31.7			G2/5000
FVH (80°-90°)	64.2	0.4			G1/100
BL (0°-30°)	480.6	3.4	B1/500		
BM (30°-60°)	1094.3	7.6	B2/2500		
BH (60°-80°)	336.0	2.3	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9
2.5°	1659.1	1670.6	1667.7	1664.9	1663.9	1665.8	1666.8	1665.8	1665.8	1665.8	1666.8
5°	1627.4	1637.0	1637.0	1643.8	1653.4	1664.9	1673.5	1675.4	1677.3	1680.2	1679.3
7.5°	1567.0	1574.7	1580.4	1602.5	1626.5	1657.2	1683.1	1696.5	1698.5	1709.0	1712.8
10°	1525.7	1535.3	1544.9	1567.9	1602.5	1648.6	1692.7	1725.3	1730.1	1755.1	1766.6
12.5°	1523.8	1533.4	1545.9	1570.8	1611.1	1660.1	1713.8	1760.8	1769.5	1805.9	1829.9
15°	1544.0	1555.5	1567.0	1597.7	1640.9	1700.4	1757.9	1816.5	1825.1	1876.9	1902.8
17.5°	1585.2	1600.6	1609.2	1639.9	1686.0	1752.2	1828.0	1895.2	1902.8	1963.3	1995.9
20°	1666.8	1685.0	1687.9	1712.8	1757.9	1829.0	1919.2	2002.6	2012.2	2081.3	2117.8
22.5°	1835.7	1861.6	1838.6	1851.0	1891.3	1962.3	2060.2	2165.8	2179.2	2257.9	2290.5
25°	2133.1	2169.6	2110.1	2089.0	2106.3	2180.2	2303.0	2436.4	2451.7	2515.1	2531.4
27.5°	2717.5	2670.5	2580.3	2492.0	2440.2	2482.4	2620.6	2785.7	2804.8	2866.3	2847.1
30°	3359.5	3318.2	3196.4	3000.6	2877.8	2871.1	2998.7	3182.9	3205.0	3263.5	3205.0
32.5°	4002.4	3963.1	3830.6	3589.8	3376.8	3271.2	3359.5	3563.9	3575.4	3612.8	3526.4
35°	4634.8	4594.5	4462.0	4215.4	3953.5	3713.6	3696.3	3926.6	3930.4	3969.8	3841.2
37.5°	5271.0	5237.4	5096.3	4854.5	4596.4	4265.3	4105.1	4270.1	4274.9	4313.3	4179.9
40°	5724.8	5739.2	5642.3	5455.2	5233.5	4871.8	4563.8	4635.7	4606.9	4671.2	4591.6
42.5°	6114.4	6143.2	6058.8	5964.7	5836.1	5517.6	5131.8	5119.3	5073.3	5107.8	5025.3
45°	6451.2	6475.2	6399.4	6377.4	6374.5	6150.9	5752.7	5677.8	5613.5	5606.8	5508.0
47.5°	6575.0	6621.1	6653.7	6727.6	6871.5	6777.5	6394.6	6278.5	6206.5	6153.8	5997.4
50°	6622.0	6671.0	6782.3	6997.2	7337.9	7378.2	7033.7	6903.2	6814.9	6719.0	6488.7
52.5°	6558.7	6646.0	6795.7	7157.5	7651.7	7859.9	7646.9	7532.7	7431.9	7275.5	6933.9
55°	6185.4	6272.8	6578.9	7155.6	7808.1	8197.7	8226.5	8175.6	8062.4	7815.8	7293.7
57.5°	5398.6	5528.1	6012.7	6911.8	7805.2	8488.4	8794.5	8831.0	8704.3	8351.2	7576.8
60°	4308.5	4484.1	5075.2	6371.6	7564.3	8645.8	9292.5	9474.9	9340.5	8879.0	7806.2
62.5°	3006.4	3209.8	3769.2	5525.2	7013.6	8532.6	9656.2	9993.0	9891.3	9351.1	7894.4
65°	1833.8	1899.0	2350.0	4347.8	6077.0	8058.5	9768.5	10273.2	10239.7	9639.9	7763.9
67.5°	1221.5	1276.2	1405.8	2981.4	4717.3	7111.4	9499.8	10224.3	10233.9	9592.9	7286.1
70°	736.0	783.0	867.5	1734.0	3057.2	5628.9	8667.9	9600.6	9656.2	8964.4	6380.2
72.5°	303.2	334.9	411.7	785.9	1583.3	3572.5	6902.2	8242.8	8372.3	7537.5	4896.7
75°	171.8	188.1	241.8	394.4	687.1	1664.9	4180.9	5851.5	6042.5	5195.2	2945.9
77.5°	114.2	121.9	156.4	255.2	386.7	568.1	1786.7	3048.6	3413.2	2837.5	1275.3
80°	76.8	83.5	107.5	170.8	251.4	243.7	569.0	1129.4	1389.5	974.9	310.9
82.5°	51.8	52.8	76.8	112.3	159.3	118.0	167.9	351.2	441.4	282.1	118.0
85°	29.7	28.8	56.6	65.3	71.0	48.9	50.9	105.6	138.2	119.0	67.2
87.5°	3.8	5.8	22.1	17.3	9.6	10.6	10.6	18.2	26.9	28.8	14.4
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°	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9
2.5°	1666.8	1665.8	1662.9	1660.1	1653.4	1649.5	1651.4	1649.5	1648.6	1649.5	1653.4
5°	1679.3	1676.4	1668.7	1659.1	1645.7	1629.4	1618.8	1603.5	1589.1	1580.4	1582.3
7.5°	1712.8	1710.0	1699.4	1672.5	1629.4	1561.2	1498.9	1444.2	1402.9	1378.9	1379.9
10°	1766.6	1761.8	1745.5	1686.0	1572.7	1424.0	1300.2	1197.6	1130.4	1098.7	1095.8
12.5°	1829.9	1824.2	1795.4	1673.5	1465.3	1233.1	1062.3	948.1	885.7	857.9	855.0
15°	1904.8	1897.1	1840.5	1614.0	1308.9	1021.9	865.5	780.1	739.8	714.9	715.8
17.5°	1997.8	1984.4	1874.1	1524.8	1139.0	860.7	744.6	680.3	644.8	620.8	618.9
20°	2118.7	2096.7	1900.9	1418.3	982.6	759.0	663.1	609.3	582.5	561.4	557.5
22.5°	2287.6	2256.0	1933.5	1303.1	872.3	689.0	602.6	563.3	541.2	517.2	513.4
25°	2496.8	2459.4	1973.9	1196.6	796.4	628.5	558.5	525.8	499.9	472.1	469.2
27.5°	2789.5	2722.3	2021.8	1109.3	731.2	576.7	518.2	481.7	452.0	428.9	424.1
30°	3115.7	3005.4	2064.1	1056.5	671.7	528.7	465.4	428.9	401.1	384.8	381.9
32.5°	3424.7	3275.0	2091.9	1033.5	618.0	474.0	407.8	368.5	347.4	342.6	345.4
35°	3716.4	3518.8	2089.0	1011.4	570.0	419.3	351.2	310.9	294.6	297.5	297.5
37.5°	4052.3	3778.8	2068.8	976.8	530.6	369.4	302.3	266.8	252.4	253.3	257.2
40°	4442.8	4079.2	2056.4	911.6	487.5	323.4	262.0	233.2	222.6	218.8	217.8
42.5°	4859.3	4369.9	2058.3	837.7	433.7	282.1	234.1	210.1	200.6	197.7	196.7
45°	5277.7	4647.2	2061.2	760.9	377.1	250.4	214.0	193.8	188.1	184.2	184.2
47.5°	5671.1	4883.3	2007.4	678.4	321.5	226.5	197.7	184.2	179.4	174.6	174.6
50°	6037.7	5040.7	1877.9	582.5	277.3	207.3	185.2	175.6	170.8	166.0	166.0
52.5°	6322.7	5065.6	1663.9	483.6	246.6	192.9	177.5	168.9	163.1	158.3	157.4
55°	6449.3	4909.2	1359.7	391.5	222.6	180.4	169.8	161.2	154.5	149.7	148.7
57.5°	6416.7	4580.1	1060.3	314.7	199.6	167.9	160.2	154.5	146.8	139.1	138.2
60°	6256.4	4139.6	799.3	262.0	178.5	154.5	149.7	144.9	134.3	122.8	120.9
62.5°	5979.1	3585.9	570.0	216.9	155.5	139.1	137.2	133.4	118.0	96.9	95.0
65°	5555.0	2913.3	383.8	180.4	133.4	121.9	122.8	116.1	96.0	72.0	70.0
67.5°	4935.1	2130.3	245.7	147.8	111.3	101.7	102.7	98.8	81.6	61.4	58.5
70°	4145.4	1410.6	160.2	112.3	89.2	78.7	84.4	85.4	69.1	49.9	48.0
72.5°	3039.0	832.9	112.3	83.5	65.3	54.7	69.1	71.0	55.7	37.4	35.5
75°	1732.0	395.3	84.4	60.5	40.3	38.4	53.7	53.7	38.4	24.9	23.0
77.5°	727.4	165.0	59.5	39.3	23.0	22.1	36.5	33.6	19.2	11.5	11.5
80°	210.1	73.9	31.7	19.2	9.6	8.6	14.4	10.6	4.8	1.9	1.9
82.5°	82.5	32.6	12.5	7.7	3.8	3.8	1.9	0.0	0.0	0.0	0.0
85°	48.9	13.4	5.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	2.9	1.9	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)