

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: P883228

Luminaire Tested: **NAV-SB3C-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883228
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-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 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: 14039 lumens
Efficiency: N/A
Efficacy: 94.2 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

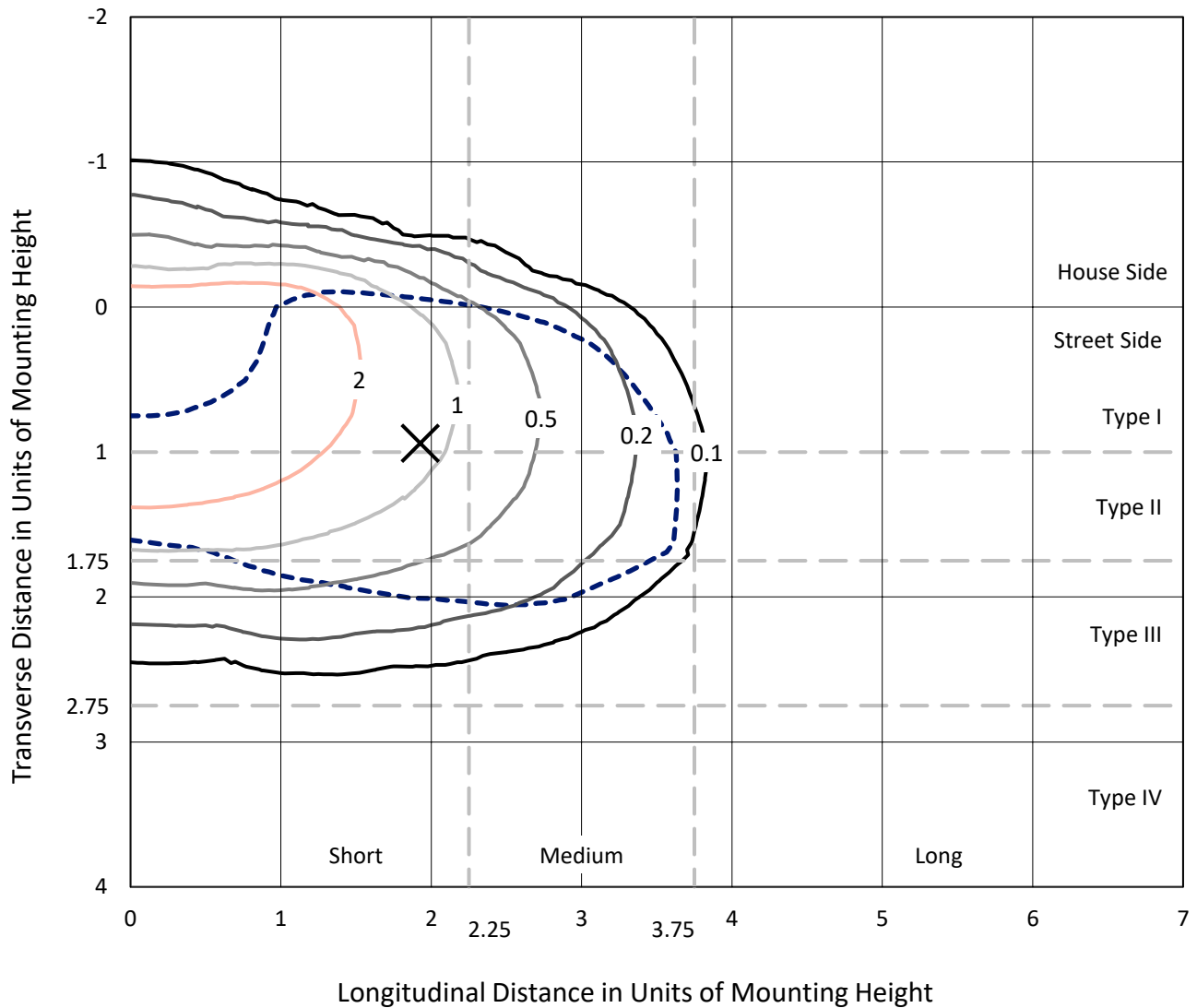
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

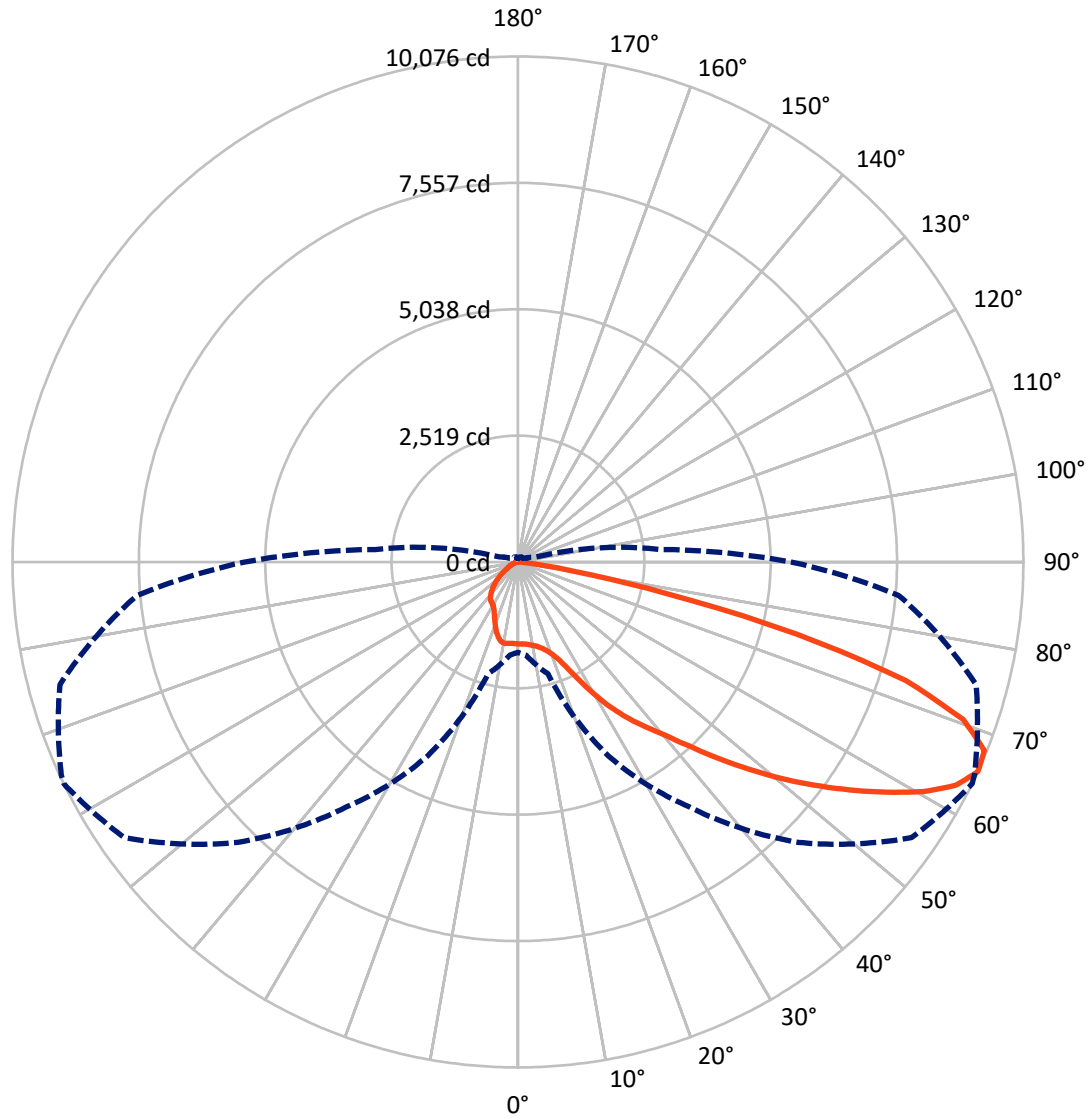
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1877.4	0.0	1877.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12161.6	0.0	12161.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	14039.0	0.0	14039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.1
10°-20°	408.6	2.9
20°-30°	774.3	5.5
30°-40°	1566.8	11.2
40°-50°	2669.0	19.0
50°-60°	3629.6	25.9
60°-70°	3408.4	24.3
70°-80°	1365.6	9.7
80°-90°	66.2	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°	14039.0	100.0
0°-180°	14039.0	100.0

Coefficient of Utilization



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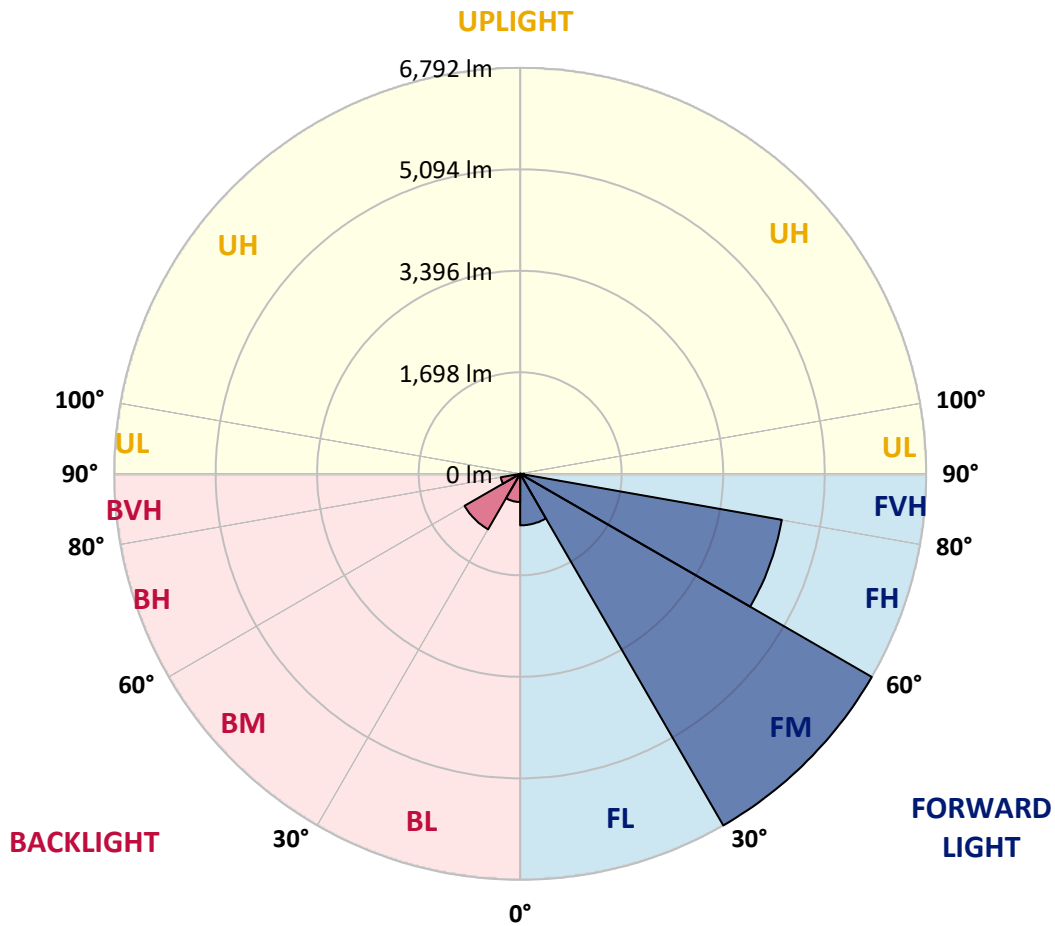
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.2	6.1			
FM (30°-60°)	6792.1	48.4			
FH (60°-80°)	4444.4	31.7			G2/5000
FVH (80°-90°)	62.9	0.4			G1/100
BL (0°-30°)	471.4	3.4	B1/500		
BM (30°-60°)	1073.3	7.6	B2/2500		
BH (60°-80°)	329.5	2.3	B1/500		G1/500
BVH (80°-90°)	3.2	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°	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9
2.5°	1627.2	1638.5	1635.7	1632.9	1631.9	1633.8	1634.8	1633.8	1633.8	1633.8	1634.8
5°	1596.2	1605.6	1605.6	1612.2	1621.6	1632.9	1641.4	1643.2	1645.1	1647.9	1647.0
7.5°	1536.9	1544.4	1550.1	1571.7	1595.2	1625.4	1650.8	1663.9	1665.8	1676.2	1679.9
10°	1496.4	1505.8	1515.2	1537.8	1571.7	1616.9	1660.2	1692.2	1696.9	1721.3	1732.6
12.5°	1494.5	1503.9	1516.2	1540.6	1580.2	1628.2	1680.9	1727.0	1735.5	1771.2	1794.8
15°	1514.3	1525.6	1536.9	1567.0	1609.4	1667.7	1724.2	1781.6	1790.1	1840.9	1866.3
17.5°	1554.8	1569.8	1578.3	1608.4	1653.6	1718.5	1792.9	1858.8	1866.3	1925.6	1957.6
20°	1634.8	1652.6	1655.5	1679.9	1724.2	1793.8	1882.3	1964.2	1973.6	2041.3	2077.1
22.5°	1800.4	1825.8	1803.2	1815.5	1855.0	1924.6	2020.6	2124.2	2137.3	2214.5	2246.5
25°	2092.2	2127.9	2069.6	2048.9	2065.8	2138.3	2258.7	2389.6	2404.6	2466.7	2482.7
27.5°	2665.3	2619.2	2530.7	2444.1	2393.3	2434.7	2570.3	2732.1	2751.0	2811.2	2792.4
30°	3294.9	3254.5	3134.9	2943.0	2822.5	2815.9	2941.1	3121.8	3143.4	3200.8	3143.4
32.5°	3925.5	3886.9	3757.0	3520.8	3311.9	3208.4	3294.9	3495.4	3506.7	3543.4	3458.7
35°	4545.7	4506.2	4376.3	4134.4	3877.5	3642.2	3625.3	3851.2	3854.9	3893.5	3767.4
37.5°	5169.7	5136.8	4998.4	4761.2	4508.1	4183.4	4026.2	4188.1	4192.8	4230.4	4099.6
40°	5614.9	5629.0	5533.9	5350.4	5133.0	4778.2	4476.1	4546.7	4518.4	4581.5	4503.4
42.5°	5997.0	6025.2	5942.4	5850.1	5724.0	5411.6	5033.2	5021.0	4975.8	5009.7	4928.8
45°	6327.3	6350.8	6276.5	6254.8	6252.0	6032.7	5642.1	5568.7	5505.7	5499.1	5402.2
47.5°	6448.7	6493.9	6525.9	6598.3	6739.5	6647.3	6271.8	6157.9	6087.3	6035.5	5882.1
50°	6494.8	6542.8	6652.0	6862.8	7196.9	7236.4	6898.6	6770.6	6684.0	6589.9	6364.0
52.5°	6432.7	6518.3	6665.2	7020.0	7504.7	7708.9	7500.0	7388.0	7289.1	7135.7	6800.7
55°	6066.6	6152.2	6452.5	7018.1	7658.1	8040.2	8068.4	8018.5	7907.5	7665.6	7153.6
57.5°	5294.9	5421.9	5897.2	6779.0	7655.2	8325.3	8625.6	8661.3	8537.1	8190.8	7431.3
60°	4225.7	4398.0	4977.7	6249.2	7419.0	8479.7	9114.0	9292.8	9161.1	8708.4	7656.2
62.5°	2948.6	3148.1	3696.8	5419.1	6878.8	8368.6	9470.7	9801.1	9701.3	9171.4	7742.8
65°	1798.5	1862.5	2304.9	4264.3	5960.3	7903.7	9580.8	10075.9	10042.9	9454.7	7614.8
67.5°	1198.1	1251.7	1378.8	2924.1	4626.7	6974.8	9317.3	10027.9	10037.3	9408.6	7146.1
70°	721.9	768.0	850.8	1700.6	2998.5	5520.7	8501.3	9416.1	9470.7	8792.1	6257.7
72.5°	297.4	328.5	403.7	770.8	1552.9	3503.9	6769.6	8084.4	8211.5	7392.7	4802.6
75°	168.5	184.5	237.2	386.8	673.9	1632.9	4100.6	5739.1	5926.4	5095.3	2889.3
77.5°	112.0	119.5	153.4	250.3	379.3	557.2	1752.4	2990.0	3347.6	2783.0	1250.8
80°	75.3	81.9	105.4	167.5	246.6	239.1	558.1	1107.7	1362.8	956.2	304.9
82.5°	50.8	51.8	75.3	110.1	156.2	115.8	164.7	344.5	432.9	276.7	115.8
85°	29.2	28.2	55.5	64.0	69.6	48.0	49.9	103.5	135.5	116.7	65.9
87.5°	3.8	5.6	21.6	16.9	9.4	10.4	10.4	17.9	26.4	28.2	14.1
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°	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9	1632.9
2.5°	1634.8	1633.8	1631.0	1628.2	1621.6	1617.8	1619.7	1617.8	1616.9	1617.8	1621.6
5°	1647.0	1644.2	1636.6	1627.2	1614.1	1598.1	1587.7	1572.6	1558.5	1550.1	1551.9
7.5°	1679.9	1677.1	1666.8	1640.4	1598.1	1531.2	1470.1	1416.4	1375.9	1352.4	1353.4
10°	1732.6	1727.9	1711.9	1653.6	1542.5	1396.7	1275.2	1174.5	1108.7	1077.6	1074.8
12.5°	1794.8	1789.1	1760.9	1641.4	1437.1	1209.4	1041.8	929.8	868.7	841.4	838.6
15°	1868.2	1860.6	1805.1	1583.0	1283.7	1002.3	848.9	765.1	725.6	701.2	702.1
17.5°	1959.5	1946.3	1838.1	1495.5	1117.1	844.2	730.3	667.3	632.4	608.9	607.0
20°	2078.0	2056.4	1864.4	1391.0	963.7	744.4	650.3	597.6	571.3	550.6	546.8
22.5°	2243.7	2212.6	1896.4	1278.1	855.5	675.7	591.0	552.5	530.8	507.3	503.5
25°	2448.9	2412.1	1935.9	1173.6	781.1	616.4	547.7	515.7	490.3	463.0	460.2
27.5°	2735.9	2670.0	1983.0	1088.0	717.2	565.6	508.2	472.5	443.3	420.7	416.0
30°	3055.9	2947.7	2024.4	1036.2	658.8	518.6	456.5	420.7	393.4	377.4	374.6
32.5°	3358.9	3212.1	2051.7	1013.6	606.1	464.9	400.0	361.4	340.7	336.0	338.8
35°	3645.0	3451.2	2048.9	992.0	559.0	411.3	344.5	304.9	288.9	291.8	291.8
37.5°	3974.4	3706.2	2029.1	958.1	520.5	362.3	296.5	261.6	247.5	248.5	252.2
40°	4357.5	4000.8	2016.9	894.1	478.1	317.2	256.9	228.7	218.3	214.6	213.6
42.5°	4765.9	4286.0	2018.7	821.6	425.4	276.7	229.6	206.1	196.7	193.9	192.9
45°	5176.3	4558.0	2021.6	746.3	369.9	245.6	209.9	190.1	184.5	180.7	180.7
47.5°	5562.1	4789.5	1968.9	665.4	315.3	222.1	193.9	180.7	176.0	171.3	171.3
50°	5921.7	4943.8	1841.8	571.3	272.0	203.3	181.6	172.2	167.5	162.8	162.8
52.5°	6201.2	4968.3	1631.9	474.3	241.9	189.2	174.1	165.6	160.0	155.3	154.3
55°	6325.4	4814.9	1333.6	384.0	218.3	176.9	166.6	158.1	151.5	146.8	145.9
57.5°	6293.4	4492.1	1040.0	308.7	195.8	164.7	157.2	151.5	144.0	136.5	135.5
60°	6136.2	4060.1	784.0	256.9	175.1	151.5	146.8	142.1	131.8	120.5	118.6
62.5°	5864.3	3517.0	559.0	212.7	152.5	136.5	134.6	130.8	115.8	95.1	93.2
65°	5448.3	2857.3	376.5	176.9	130.8	119.5	120.5	113.9	94.1	70.6	68.7
67.5°	4840.3	2089.3	240.9	144.9	109.2	99.8	100.7	96.9	80.0	60.2	57.4
70°	4065.7	1383.5	157.2	110.1	87.5	77.2	82.8	83.8	67.8	48.9	47.1
72.5°	2980.6	816.9	110.1	81.9	64.0	53.6	67.8	69.6	54.6	36.7	34.8
75°	1698.8	387.8	82.8	59.3	39.5	37.6	52.7	52.7	37.6	24.5	22.6
77.5°	713.4	161.9	58.4	38.6	22.6	21.6	35.8	32.9	18.8	11.3	11.3
80°	206.1	72.5	31.1	18.8	9.4	8.5	14.1	10.4	4.7	1.9	1.9
82.5°	80.9	32.0	12.2	7.5	3.8	3.8	1.9	0.0	0.0	0.0	0.0
85°	48.0	13.2	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	2.8	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)