

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: P964480

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
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: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14921.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

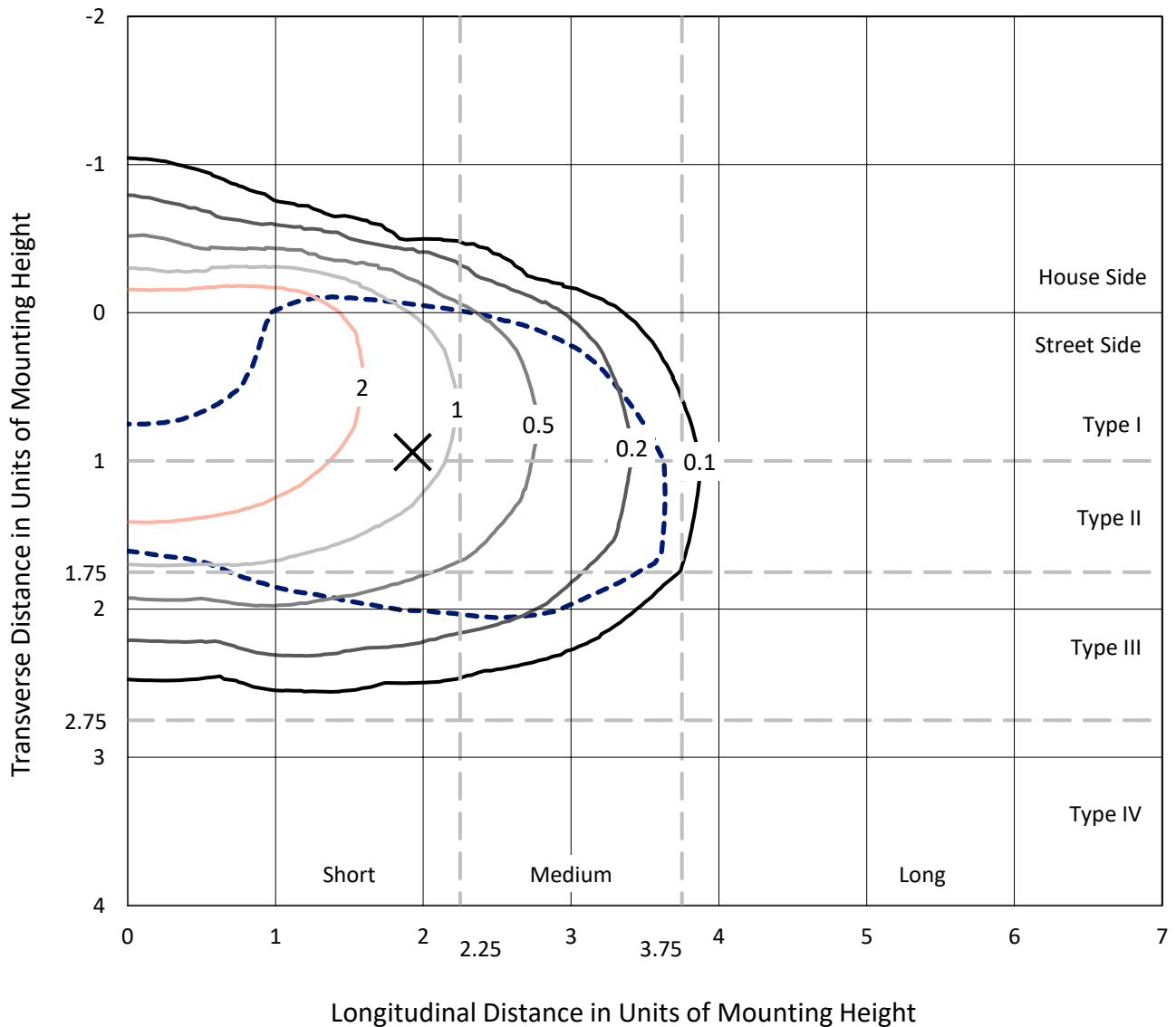
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

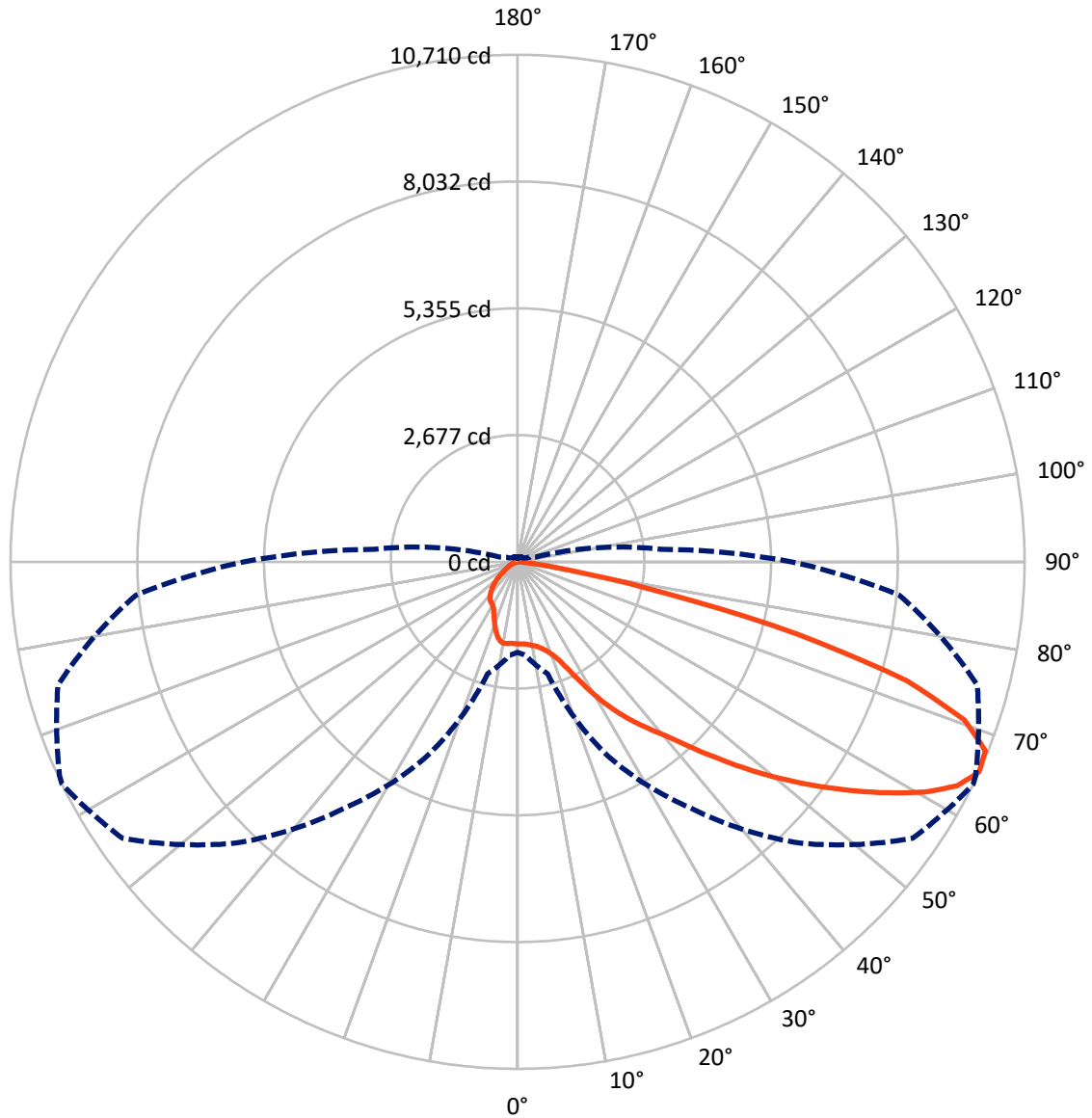
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1995.5	0.0	1995.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12926.4	0.0	12926.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	14921.9	0.0	14921.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.1
10°-20°	434.3	2.9
20°-30°	823.0	5.5
30°-40°	1665.3	11.2
40°-50°	2836.8	19.0
50°-60°	3857.9	25.9
60°-70°	3622.8	24.3
70°-80°	1451.4	9.7
80°-90°	70.3	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°	14921.9	100.0
0°-180°	14921.9	100.0

Coefficient of Utilization



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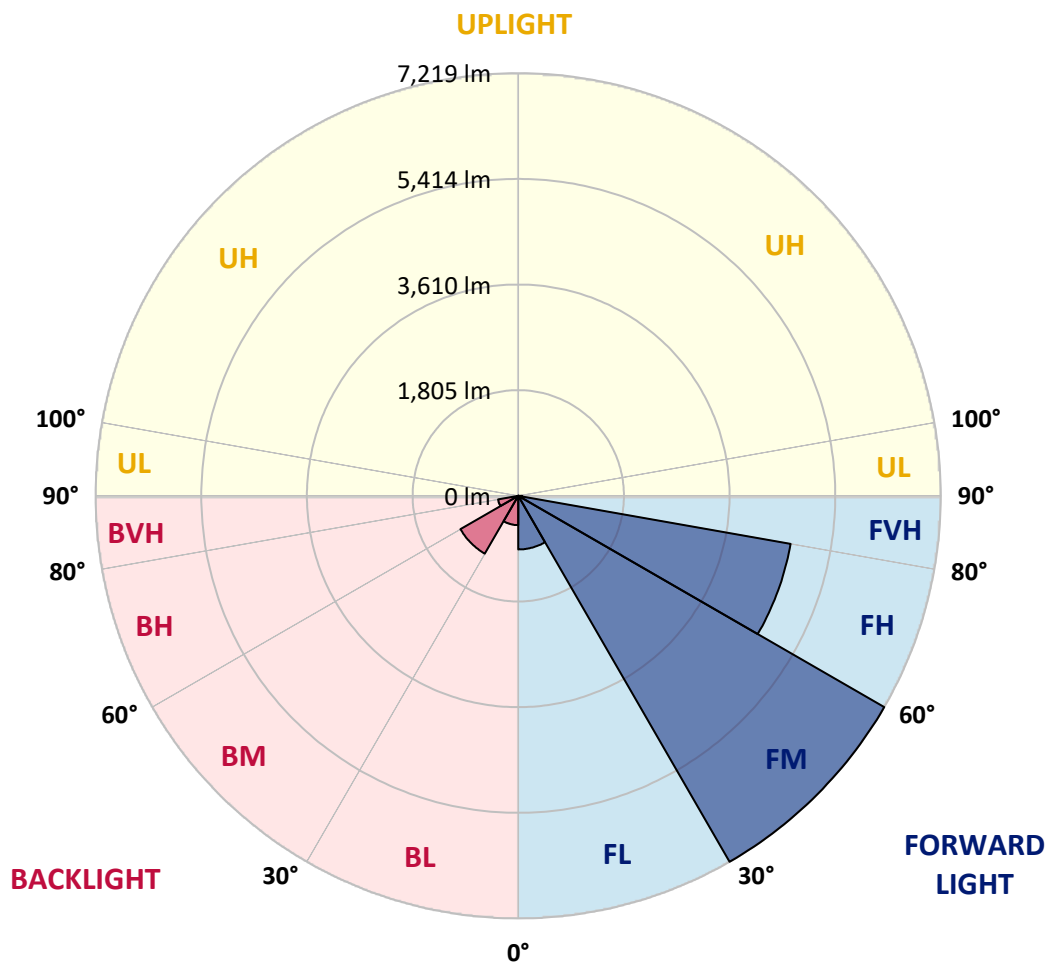
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.4	6.1			
FM (30°-60°)	7219.2	48.4			
FH (60°-80°)	4723.9	31.7			G2/5000
FVH (80°-90°)	66.9	0.4			G1/100
BL (0°-30°)	501.0	3.4	B2/1000		
BM (30°-60°)	1140.8	7.6	B2/2500		
BH (60°-80°)	350.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.4	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°	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5
2.5°	1729.6	1741.6	1738.6	1735.5	1734.6	1736.6	1737.6	1736.6	1736.6	1736.6	1737.6
5°	1696.6	1706.5	1706.5	1713.6	1723.5	1735.5	1744.6	1746.6	1748.5	1751.6	1750.6
7.5°	1633.5	1641.5	1647.6	1670.5	1695.6	1727.5	1754.6	1768.6	1770.6	1781.6	1785.6
10°	1590.5	1600.5	1610.6	1634.6	1670.5	1718.6	1764.5	1798.6	1803.6	1829.6	1841.6
12.5°	1588.5	1598.5	1611.5	1637.5	1679.6	1730.6	1786.6	1835.6	1844.6	1882.6	1907.6
15°	1609.6	1621.6	1633.5	1665.5	1710.5	1772.6	1832.6	1893.6	1902.6	1956.6	1983.7
17.5°	1652.5	1668.6	1677.5	1709.6	1757.6	1826.7	1905.7	1975.7	1983.7	2046.7	2080.6
20°	1737.6	1756.5	1759.6	1785.6	1832.6	1906.6	2000.7	2087.7	2097.7	2169.7	2207.7
22.5°	1913.7	1940.6	1916.6	1929.7	1971.7	2045.7	2147.7	2257.8	2271.7	2353.8	2387.8
25°	2223.7	2261.8	2199.8	2177.7	2195.8	2272.7	2400.8	2539.8	2555.8	2621.8	2638.9
27.5°	2832.9	2783.9	2689.9	2597.9	2543.8	2587.8	2731.9	2903.9	2924.0	2988.0	2968.0
30°	3502.1	3459.2	3332.1	3128.0	3000.0	2993.0	3126.0	3318.1	3341.1	3402.2	3341.1
32.5°	4172.4	4131.4	3993.3	3742.3	3520.2	3410.2	3502.1	3715.2	3727.2	3766.3	3676.3
35°	4831.6	4789.6	4651.6	4394.5	4121.4	3871.3	3853.3	4093.3	4097.3	4138.3	4004.4
37.5°	5494.8	5459.9	5312.8	5060.7	4791.6	4446.4	4279.4	4451.5	4456.5	4496.5	4357.5
40°	5968.0	5983.0	5882.0	5686.9	5455.8	5078.7	4757.5	4832.6	4802.6	4869.6	4786.5
42.5°	6374.2	6404.1	6316.2	6218.1	6084.0	5751.9	5349.8	5336.8	5288.8	5324.8	5238.8
45°	6725.2	6750.2	6671.2	6648.3	6645.2	6412.1	5997.0	5919.0	5851.9	5845.0	5741.9
47.5°	6854.3	6902.2	6936.3	7013.4	7163.4	7065.3	6666.2	6545.1	6470.1	6415.2	6252.1
50°	6903.3	6954.3	7070.3	7294.4	7649.6	7691.6	7332.4	7196.4	7104.4	7004.3	6764.3
52.5°	6837.3	6928.3	7084.4	7461.5	7976.7	8193.7	7971.6	7852.6	7747.6	7584.5	7228.4
55°	6448.2	6539.2	6858.3	7459.4	8139.7	8545.8	8575.9	8522.9	8404.8	8147.7	7603.6
57.5°	5627.9	5763.0	6268.1	7205.4	8136.8	8848.9	9168.0	9206.0	9074.0	8705.9	7898.6
60°	4491.4	4674.5	5290.7	6642.2	7885.6	9013.0	9687.3	9877.3	9737.2	9256.1	8137.7
62.5°	3134.0	3346.1	3929.3	5759.9	7311.4	8894.9	10066.3	10417.5	10311.4	9748.3	8229.7
65°	1911.6	1979.7	2449.9	4532.5	6335.1	8400.8	10183.4	10709.6	10674.6	10049.3	8093.7
67.5°	1273.5	1330.4	1465.4	3108.0	4917.6	7413.5	9903.3	10658.6	10668.5	10000.3	7595.6
70°	767.2	816.3	904.3	1807.6	3187.0	5867.9	9036.0	10008.3	10066.3	9345.1	6651.2
72.5°	316.1	349.1	429.2	819.3	1650.6	3724.2	7195.4	8592.9	8727.9	7857.6	5104.7
75°	179.1	196.1	252.0	411.1	716.3	1735.5	4358.4	6100.0	6299.1	5415.8	3071.0
77.5°	119.0	127.0	163.1	266.1	403.1	592.2	1862.6	3178.0	3558.2	2957.9	1329.4
80°	80.1	87.0	112.0	178.0	262.1	254.1	593.2	1177.4	1448.5	1016.3	324.1
82.5°	54.0	55.0	80.1	117.1	166.0	123.0	175.1	366.1	460.1	294.1	123.0
85°	31.1	30.0	59.0	68.1	74.0	51.0	53.0	110.1	144.0	124.0	70.0
87.5°	4.0	6.0	23.0	18.0	10.0	11.0	11.0	19.0	28.0	30.0	15.0
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°	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5	1735.5
2.5°	1737.6	1736.6	1733.6	1730.6	1723.5	1719.5	1721.6	1719.5	1718.6	1719.5	1723.5
5°	1750.6	1747.6	1739.6	1729.6	1715.5	1698.5	1687.6	1671.6	1656.5	1647.6	1649.5
7.5°	1785.6	1782.6	1771.6	1743.6	1698.5	1627.5	1562.5	1505.5	1462.5	1437.5	1438.5
10°	1841.6	1836.6	1819.6	1757.6	1639.6	1484.5	1355.5	1248.4	1178.4	1145.3	1142.4
12.5°	1907.6	1901.7	1871.6	1744.6	1527.6	1285.5	1107.4	988.3	923.3	894.3	891.3
15°	1985.6	1977.6	1918.6	1682.5	1364.5	1065.4	902.3	813.2	771.2	745.3	746.2
17.5°	2082.7	2068.7	1953.6	1589.6	1187.4	897.3	776.2	709.2	672.2	647.2	645.2
20°	2208.8	2185.7	1981.6	1478.5	1024.4	791.3	691.3	635.2	607.2	585.2	581.2
22.5°	2384.8	2351.8	2015.7	1358.4	909.3	718.2	628.2	587.2	564.2	539.2	535.2
25°	2602.9	2563.8	2057.7	1247.4	830.2	655.2	582.2	548.2	521.2	492.2	489.1
27.5°	2907.9	2837.9	2107.7	1156.4	762.3	601.2	540.2	502.1	471.2	447.1	442.2
30°	3248.1	3133.0	2151.7	1101.4	700.3	551.1	485.1	447.1	418.1	401.1	398.1
32.5°	3570.2	3414.2	2180.7	1077.4	644.2	494.2	425.2	384.2	362.1	357.1	360.1
35°	3874.3	3668.3	2177.7	1054.3	594.2	437.2	366.1	324.1	307.1	310.1	310.1
37.5°	4224.4	3939.3	2156.7	1018.3	553.2	385.1	315.1	278.1	263.1	264.0	268.1
40°	4631.6	4252.4	2143.7	950.3	508.2	337.1	273.1	243.1	232.1	228.1	227.0
42.5°	5065.7	4555.5	2145.7	873.3	452.1	294.1	244.1	219.0	209.1	206.0	205.1
45°	5501.8	4844.7	2148.7	793.2	393.1	261.1	223.0	202.0	196.1	192.1	192.1
47.5°	5912.0	5090.7	2092.7	707.2	335.1	236.1	206.0	192.1	187.1	182.0	182.0
50°	6294.1	5254.8	1957.6	607.2	289.0	216.1	193.1	183.1	178.0	173.0	173.0
52.5°	6591.2	5280.8	1734.6	504.2	257.1	201.1	185.0	176.1	170.0	165.0	164.1
55°	6723.3	5117.7	1417.5	408.2	232.1	188.1	177.0	168.1	161.0	156.0	155.1
57.5°	6689.3	4774.6	1105.4	328.1	208.1	175.1	167.1	161.0	153.0	145.0	144.0
60°	6522.2	4315.5	833.3	273.1	186.0	161.0	156.0	151.1	140.0	128.0	126.1
62.5°	6233.0	3738.3	594.2	226.1	162.1	145.0	143.1	139.1	123.0	101.1	99.0
65°	5790.9	3037.0	400.2	188.1	139.1	127.0	128.0	121.1	100.0	75.0	73.0
67.5°	5144.7	2220.8	256.0	154.1	116.0	106.0	107.0	103.0	85.1	64.1	61.0
70°	4321.4	1470.5	167.1	117.1	93.1	82.0	88.0	89.1	72.1	52.0	50.0
72.5°	3168.1	868.3	117.1	87.0	68.1	57.0	72.1	74.0	58.0	39.1	37.0
75°	1805.6	412.2	88.0	63.0	42.0	40.0	56.1	56.1	40.0	26.0	24.0
77.5°	758.3	172.1	62.0	41.0	24.0	23.0	38.0	35.1	20.0	12.0	12.0
80°	219.0	77.0	33.0	20.0	10.0	9.0	15.0	11.0	5.0	2.0	2.0
82.5°	86.0	34.0	13.0	8.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	51.0	14.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	3.0	2.0	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)