

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: P966065

Luminaire Tested: **NAV-SB4B-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4B-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14468.9 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

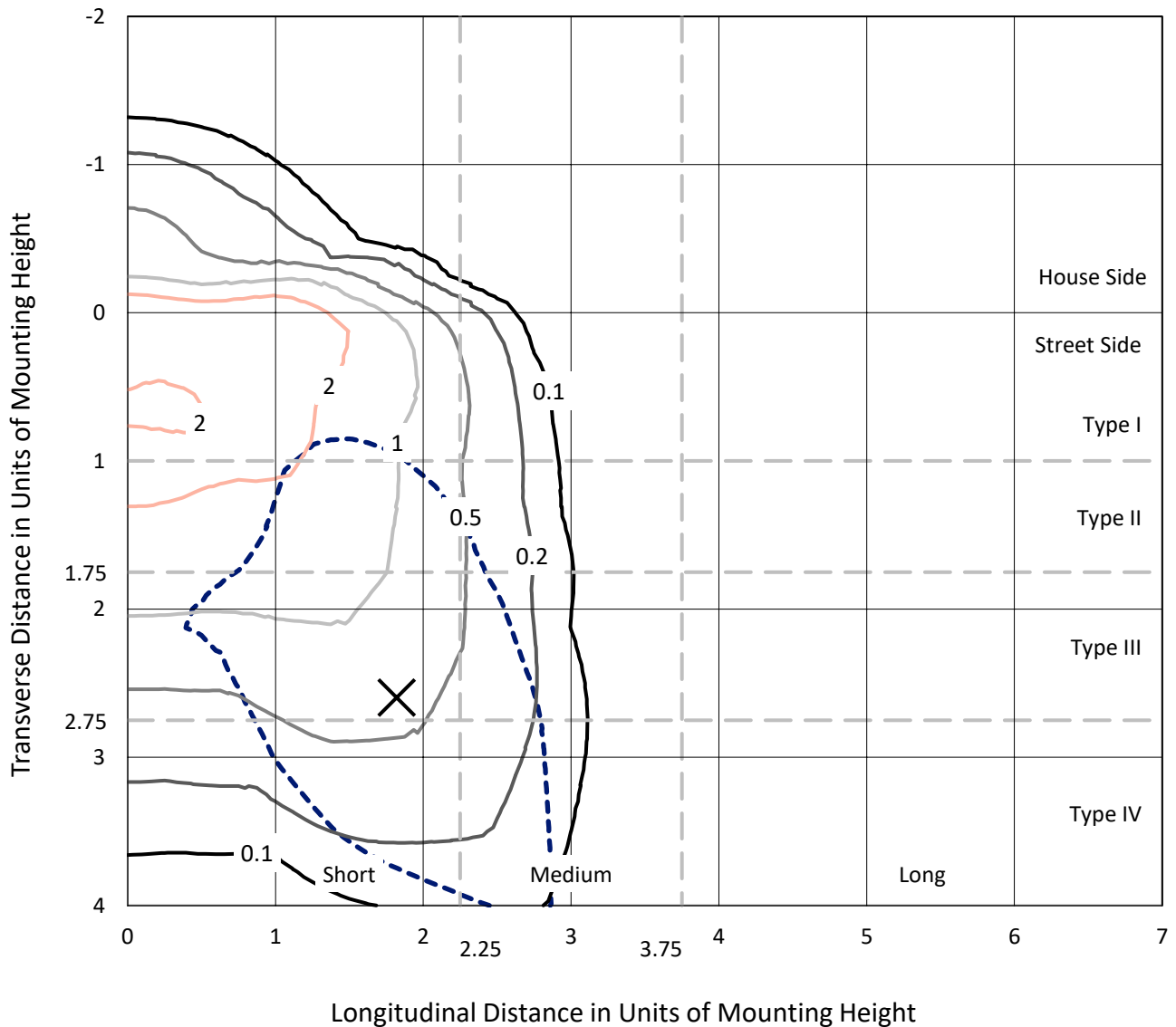
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

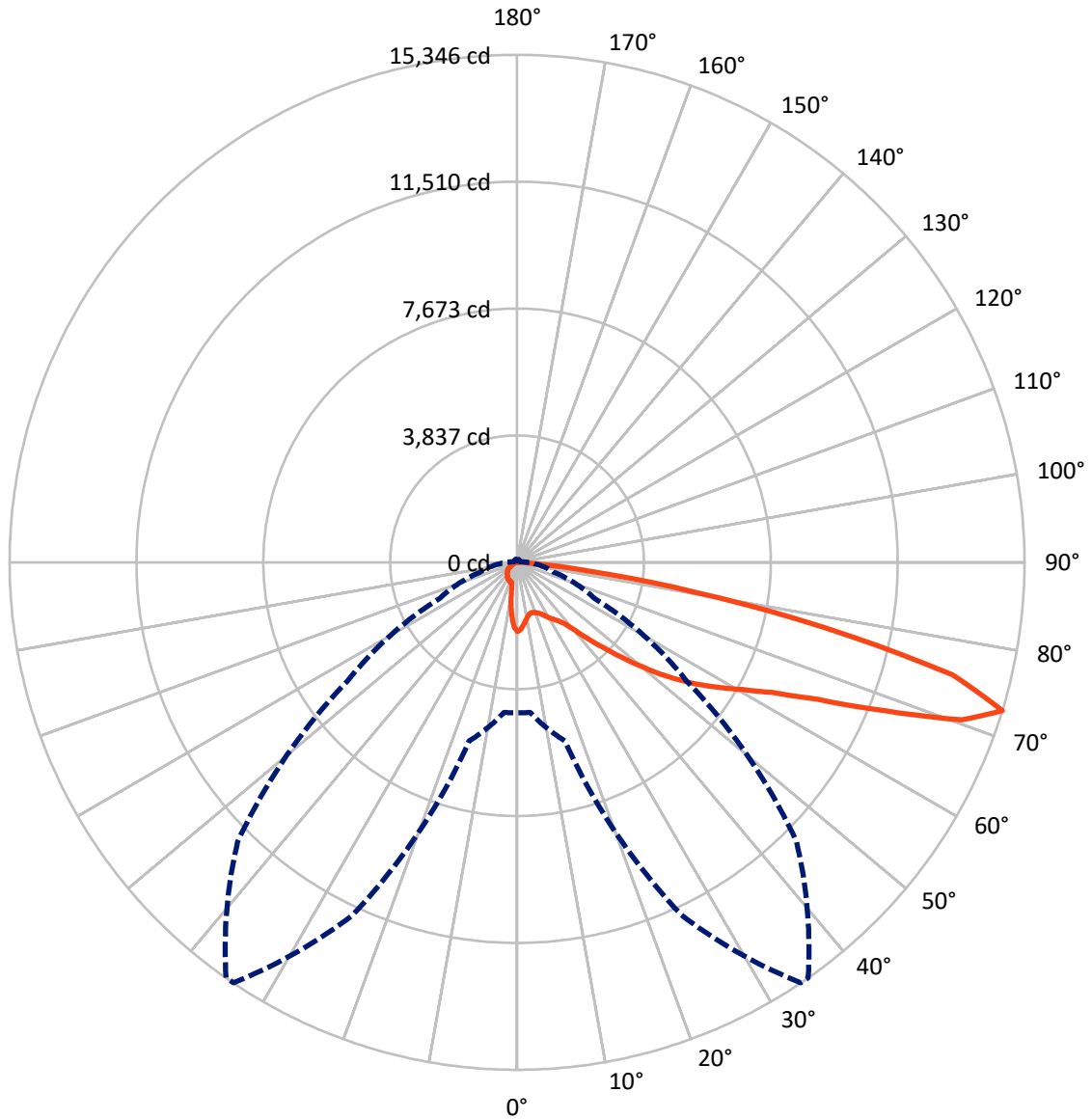
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.4	0.0	1628.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12840.5	0.0	12840.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	14468.9	0.0	14468.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.2
10°-20°	403.1	2.8
20°-30°	654.9	4.5
30°-40°	1092.6	7.6
40°-50°	2067.3	14.3
50°-60°	3284.9	22.7
60°-70°	4063.6	28.1
70°-80°	2526.0	17.5
80°-90°	204.1	1.4
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°	14468.9	100.0
0°-180°	14468.9	100.0

Coefficient of Utilization



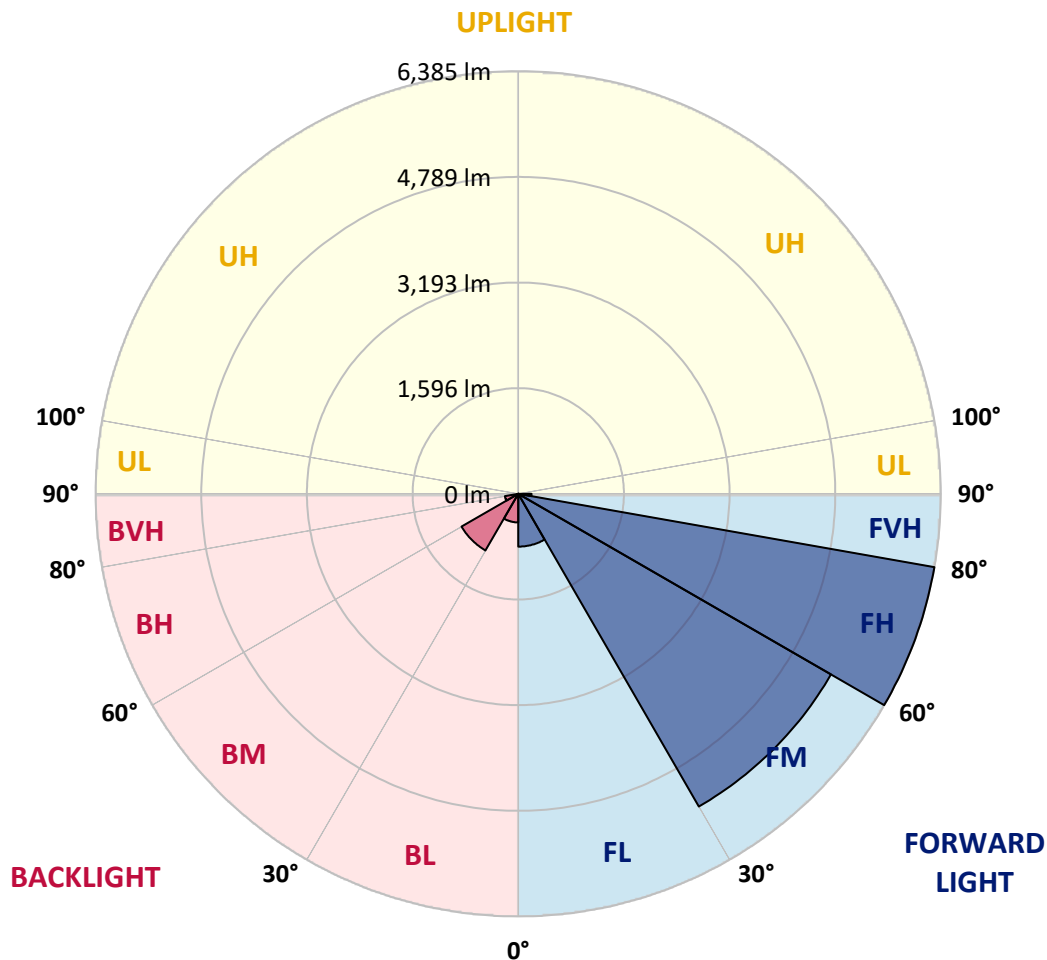
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.6	5.5			
FM (30°-60°)	5456.2	37.7			
FH (60°-80°)	6385.3	44.1			G3/7500
FVH (80°-90°)	201.4	1.4			G2/225
BL (0°-30°)	432.7	3.0	B1/500		
BM (30°-60°)	988.6	6.8	B1/1000		
BH (60°-80°)	204.3	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0
2.5°	2003.8	2020.7	2023.9	2029.2	2029.2	2035.5	2046.1	2061.0	2085.4	2098.1	2106.6
5°	1846.8	1859.6	1875.4	1888.2	1912.5	1915.7	1957.1	1997.4	2053.6	2095.9	2125.6
7.5°	1688.9	1703.7	1724.9	1755.6	1787.5	1797.0	1859.6	1927.4	2016.5	2095.9	2145.8
10°	1577.6	1578.6	1597.7	1628.4	1679.4	1690.9	1767.3	1863.8	1975.1	2083.2	2164.9
12.5°	1514.9	1522.4	1530.9	1554.2	1603.0	1610.4	1692.1	1805.4	1933.8	2075.8	2187.1
15°	1514.9	1520.3	1525.6	1537.3	1576.4	1582.8	1655.0	1768.3	1912.5	2079.0	2223.2
17.5°	1530.9	1539.3	1535.1	1548.9	1590.3	1594.5	1658.1	1757.8	1911.5	2099.2	2278.4
20°	1569.1	1575.4	1566.9	1575.4	1616.7	1625.2	1690.9	1778.0	1929.6	2134.2	2347.2
22.5°	1629.4	1632.7	1612.5	1618.9	1661.3	1671.9	1748.2	1835.2	1973.0	2190.3	2439.5
25°	1705.8	1712.2	1681.4	1688.9	1729.2	1741.9	1829.8	1921.1	2041.9	2267.7	2557.2
27.5°	1793.9	1797.0	1770.5	1769.5	1821.4	1839.4	1928.4	2027.0	2134.2	2365.3	2705.6
30°	1894.5	1904.0	1878.6	1874.4	1940.1	1955.0	2042.9	2157.4	2269.9	2511.6	2916.5
32.5°	1974.0	1981.4	1966.7	1977.2	2044.1	2055.6	2181.8	2341.9	2483.0	2719.3	3203.8
35°	2088.5	2092.7	2058.8	2078.0	2154.2	2184.0	2371.6	2600.6	2751.2	2980.2	3579.2
37.5°	2503.0	2503.0	2358.9	2264.5	2337.7	2364.2	2631.4	2926.1	3082.0	3330.0	4052.0
40°	3076.6	3067.1	2856.2	2663.2	2653.6	2705.6	3001.4	3336.4	3509.2	3749.9	4584.2
42.5°	3688.4	3673.5	3386.2	3195.3	3163.6	3181.6	3428.6	3842.1	4018.1	4262.0	5156.7
45°	4231.2	4226.9	3964.0	3707.4	3650.2	3707.4	3961.8	4433.6	4559.8	4816.4	5728.1
47.5°	4686.0	4686.0	4494.1	4326.6	4296.9	4330.8	4683.8	5089.9	5078.3	5406.9	6284.7
50°	5209.7	5205.5	5023.1	4951.1	4981.8	5029.5	5515.0	5781.1	5614.6	5986.8	6781.9
52.5°	5576.5	5601.9	5539.4	5527.7	5684.6	5767.4	6358.9	6457.5	6095.0	6537.0	7154.1
55°	5867.0	5896.7	5968.8	6050.5	6352.5	6460.7	7176.3	7098.9	6496.8	7014.2	7368.2
57.5°	6278.3	6236.0	6347.3	6508.4	6997.2	7127.5	7968.2	7704.3	6820.1	7401.1	7391.6
60°	6777.7	6784.1	6803.1	7006.7	7640.7	7808.2	8748.6	8276.8	7027.9	7638.6	7132.9
62.5°	7377.7	7387.3	7426.5	7739.3	8504.7	8662.7	9579.8	8745.4	7123.3	7571.8	6465.0
65°	7336.4	7376.7	7814.6	8884.3	9818.3	9974.2	10549.8	9074.0	6979.1	6961.1	5263.8
67.5°	6683.3	6749.1	7481.7	10251.9	11798.7	11972.6	11722.4	9138.7	6356.8	5413.2	3434.0
70°	5826.7	5850.1	6731.1	11481.7	14091.9	14267.9	12771.9	8427.3	4823.8	3019.3	1538.3
72.5°	4550.3	4555.6	5589.2	11766.9	15336.5	15346.1	11948.2	6256.1	2594.3	1159.8	534.3
75°	3250.5	3218.7	3743.5	9542.6	13492.9	13601.0	8957.5	2934.6	991.3	548.1	266.1
77.5°	1742.9	1778.0	2118.3	5659.2	9321.0	9505.5	4887.4	846.0	504.6	373.2	176.0
80°	538.5	568.3	868.3	2591.1	5279.7	5391.0	1811.9	376.4	352.0	266.1	115.5
82.5°	169.6	176.0	405.0	1088.8	2191.3	2242.3	524.8	213.1	240.7	176.0	67.9
85°	48.8	49.8	180.2	406.0	541.7	552.4	147.4	82.7	137.9	109.2	35.0
87.5°	5.3	16.9	67.9	67.9	47.7	46.6	15.9	18.0	39.3	13.7	6.4
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°	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0	2097.0
2.5°	2101.2	2102.4	2088.5	2065.3	2039.7	2018.5	1992.1	1970.9	1956.0	1951.8	1959.2
5°	2116.1	2108.7	2069.5	1998.4	1913.6	1840.5	1758.8	1694.1	1651.8	1633.7	1640.1
7.5°	2138.4	2117.1	2031.3	1891.3	1729.2	1585.0	1438.7	1325.2	1253.2	1217.1	1222.4
10°	2157.4	2115.1	1967.7	1736.6	1488.5	1270.1	1072.9	936.1	859.8	823.8	824.8
12.5°	2175.5	2114.0	1885.0	1553.2	1217.1	949.9	766.5	698.6	677.4	670.0	667.9
15°	2209.4	2117.1	1781.1	1343.3	946.7	717.7	651.0	649.8	654.2	652.0	651.0
17.5°	2256.0	2120.3	1663.4	1120.6	730.4	632.9	629.8	639.3	645.6	642.5	641.4
20°	2316.5	2133.0	1538.3	900.1	627.6	611.7	619.1	627.6	632.9	627.6	626.6
22.5°	2401.3	2155.4	1401.6	723.0	594.8	599.0	605.4	614.9	620.2	612.7	611.7
25°	2505.2	2190.3	1266.9	628.7	578.8	584.1	593.7	604.3	610.7	603.2	602.2
27.5°	2639.9	2246.5	1142.9	607.5	562.9	566.1	579.9	595.8	604.3	594.8	594.8
30°	2834.9	2338.7	1035.8	617.0	553.4	546.0	565.1	587.3	596.9	588.3	587.3
32.5°	3093.6	2469.1	970.1	631.9	549.2	522.6	540.7	569.3	585.2	579.9	579.9
35°	3432.8	2667.4	944.6	648.8	546.0	498.3	511.0	541.7	569.3	574.6	574.6
37.5°	3844.2	2943.1	952.0	656.2	536.5	478.2	484.5	511.0	547.0	564.1	568.3
40°	4311.8	3264.3	994.5	648.8	525.8	461.1	462.3	482.4	514.1	539.7	548.1
42.5°	4794.1	3639.6	1072.9	621.3	516.3	446.3	443.1	456.9	478.2	496.2	503.6
45°	5253.1	4025.5	1150.3	583.1	504.6	431.5	424.0	429.4	433.6	441.1	445.3
47.5°	5653.9	4296.9	1128.0	548.1	488.7	414.5	401.8	399.6	386.9	385.9	384.9
50°	5930.6	4356.2	1001.8	513.1	465.5	395.4	375.3	362.5	340.3	329.7	330.8
52.5°	6018.6	4121.9	818.5	478.2	427.2	370.0	341.4	321.2	293.7	284.1	283.1
55°	5902.1	3662.9	654.2	435.7	374.2	336.1	304.2	277.8	255.5	243.8	243.8
57.5°	5616.8	3078.8	517.3	385.9	318.1	297.9	266.1	239.6	220.5	208.9	206.7
60°	5144.0	2444.7	409.2	326.6	271.4	256.6	223.7	206.7	189.7	176.0	172.8
62.5°	4426.3	1745.1	321.2	258.7	226.8	209.9	190.9	178.1	158.0	138.9	135.7
65°	3454.0	1067.6	248.0	189.7	182.3	173.8	162.3	150.6	126.2	107.1	103.9
67.5°	2178.6	505.7	177.0	143.1	144.2	139.9	134.7	125.0	107.1	90.1	87.9
70°	959.5	244.9	116.6	109.2	107.1	107.1	111.3	108.1	91.2	75.2	72.1
72.5°	326.6	131.5	86.9	82.7	77.4	76.4	93.3	90.1	73.2	58.3	55.1
75°	170.7	87.9	63.7	59.3	46.6	56.2	74.2	70.0	52.0	38.1	35.0
77.5°	111.3	62.5	43.5	38.1	26.5	37.1	55.1	48.8	30.7	19.1	16.9
80°	70.0	41.3	25.4	18.0	12.7	20.2	29.7	21.2	11.7	4.2	3.2
82.5°	37.1	21.2	9.5	6.4	5.3	6.4	7.4	5.3	2.2	0.0	0.0
85°	14.9	7.4	3.2	2.2	1.0	0.0	2.2	1.0	0.0	0.0	0.0
87.5°	5.3	1.0	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)