

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: P964484

Luminaire Tested: **NAV-SB3C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964484
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-SB3C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA 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: 14405.3 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

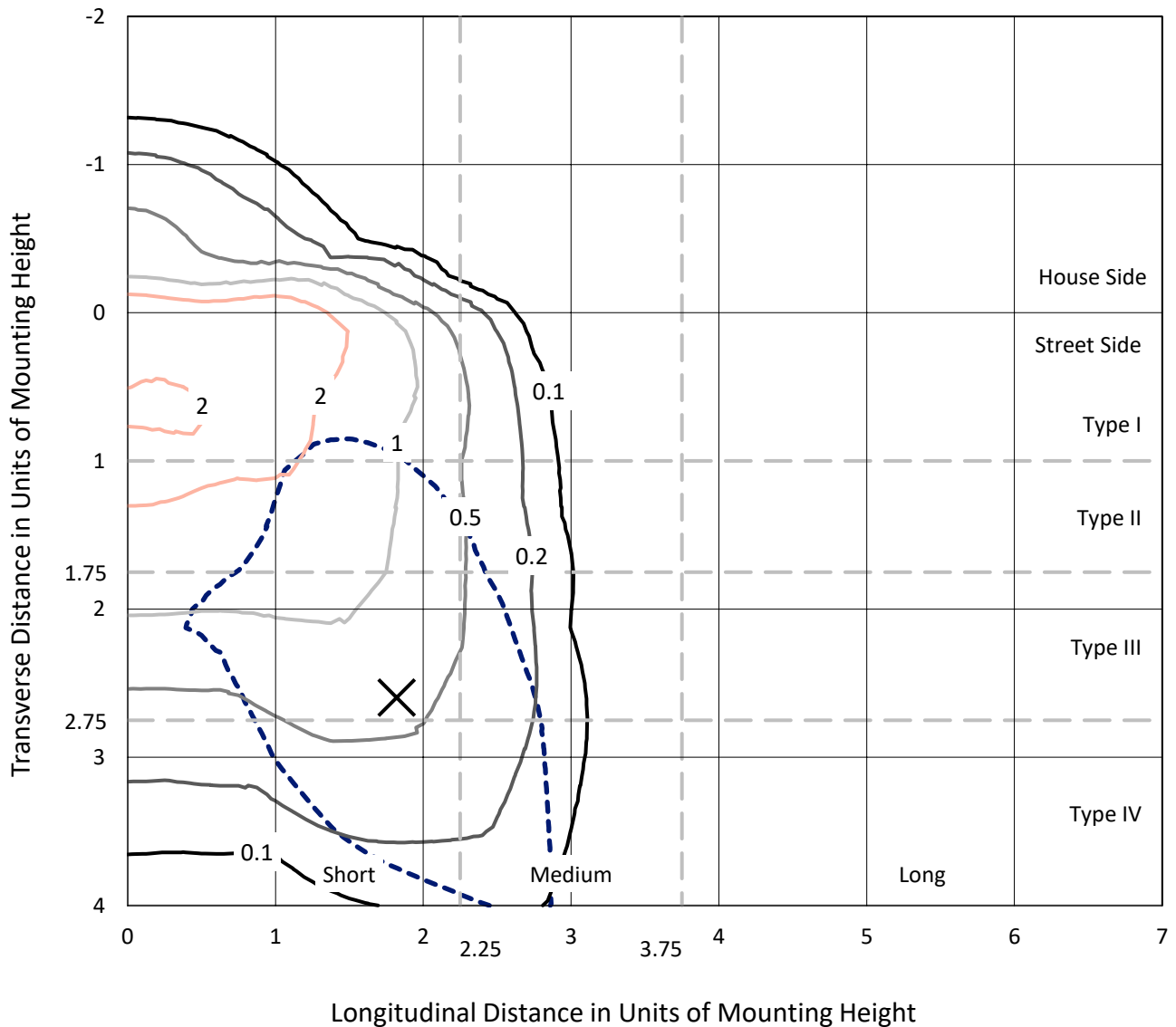
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

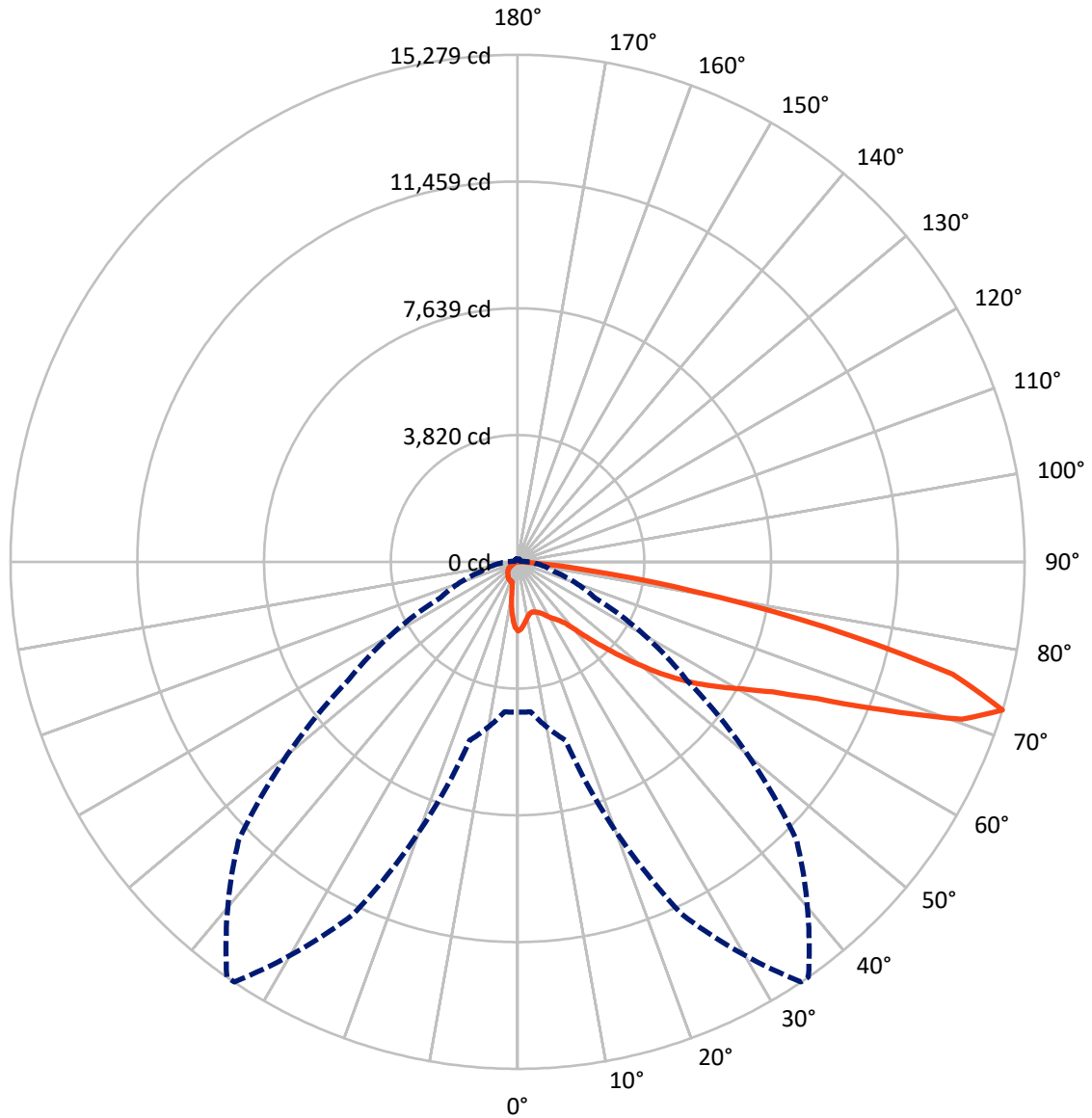
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1621.3	0.0	1621.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12784.1	0.0	12784.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	14405.3	0.0	14405.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	1.2
10°-20°	401.4	2.8
20°-30°	652.0	4.5
30°-40°	1087.8	7.6
40°-50°	2058.2	14.3
50°-60°	3270.5	22.7
60°-70°	4045.8	28.1
70°-80°	2514.9	17.5
80°-90°	203.2	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°	14405.3	100.0
0°-180°	14405.3	100.0

Coefficient of Utilization



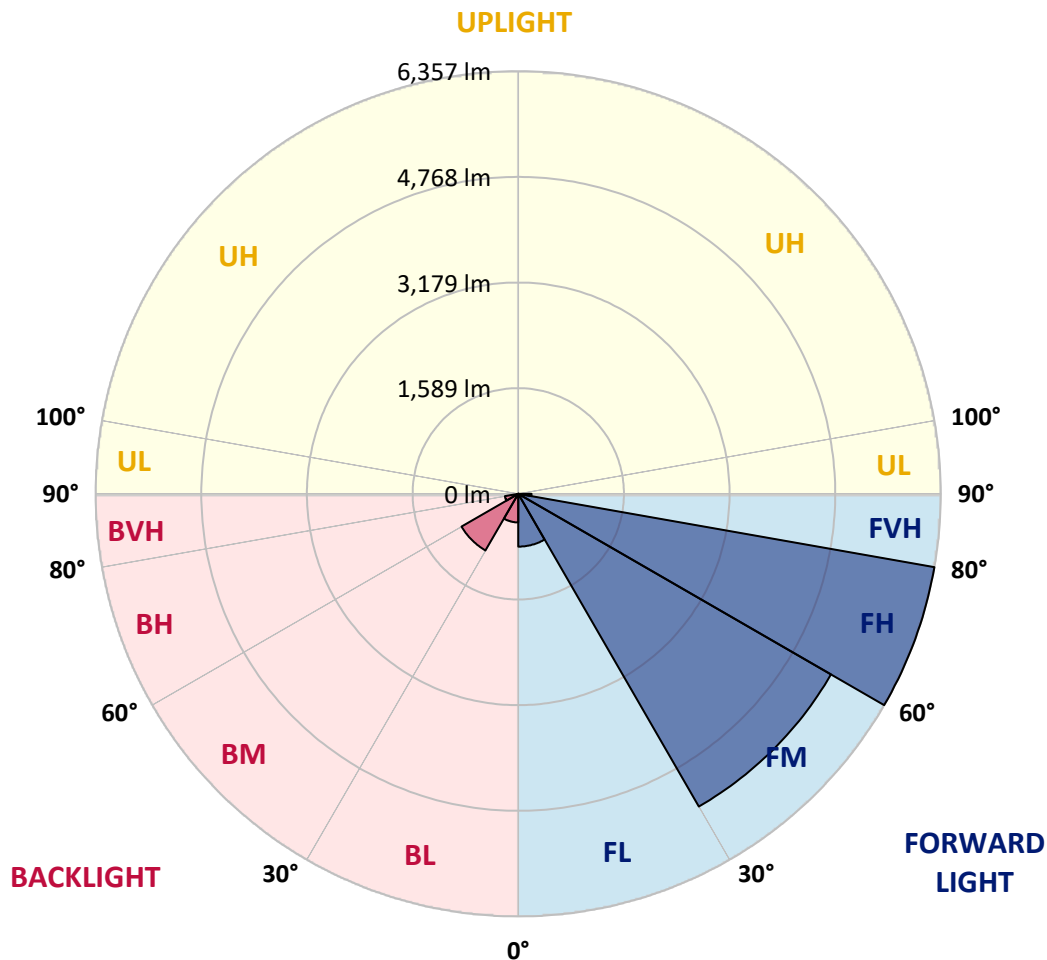
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	794.1	5.5			
FM (30°-60°)	5432.3	37.7			
FH (60°-80°)	6357.3	44.1			G3/7500
FVH (80°-90°)	200.5	1.4			G2/225
BL (0°-30°)	430.8	3.0	B1/500		
BM (30°-60°)	984.2	6.8	B1/1000		
BH (60°-80°)	203.4	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°	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8
2.5°	1995.0	2011.9	2014.9	2020.3	2020.3	2026.6	2037.2	2051.9	2076.2	2088.8	2097.4
5°	1838.7	1851.4	1867.2	1879.8	1904.1	1907.3	1948.5	1988.6	2044.6	2086.8	2116.3
7.5°	1681.4	1696.2	1717.3	1747.9	1779.6	1789.1	1851.4	1918.9	2007.6	2086.8	2136.4
10°	1570.6	1571.6	1590.7	1621.2	1672.0	1683.6	1759.5	1855.6	1966.5	2074.1	2155.4
12.5°	1508.3	1515.8	1524.2	1547.4	1595.9	1603.3	1684.6	1797.5	1925.3	2066.7	2177.5
15°	1508.3	1513.6	1518.8	1530.5	1569.6	1575.9	1647.7	1760.6	1904.1	2069.9	2213.4
17.5°	1524.2	1532.6	1528.4	1542.1	1583.3	1587.5	1650.9	1750.1	1903.1	2090.0	2268.3
20°	1562.2	1568.5	1560.0	1568.5	1609.7	1618.1	1683.6	1770.1	1921.1	2124.7	2336.9
22.5°	1622.4	1625.5	1605.5	1611.8	1654.0	1664.6	1740.6	1827.1	1964.3	2180.7	2428.7
25°	1698.3	1704.7	1674.0	1681.4	1721.6	1734.2	1821.8	1912.6	2032.9	2257.8	2545.9
27.5°	1786.0	1789.1	1762.7	1761.7	1813.4	1831.4	1920.0	2018.1	2124.7	2354.8	2693.7
30°	1886.2	1895.7	1870.4	1866.1	1931.6	1946.4	2034.0	2148.0	2259.8	2500.5	2903.7
32.5°	1965.3	1972.8	1958.0	1968.5	2035.0	2046.6	2172.3	2331.7	2472.0	2707.4	3189.8
35°	2079.4	2083.6	2049.8	2068.9	2144.8	2174.3	2361.2	2589.1	2739.1	2967.1	3563.4
37.5°	2492.1	2492.1	2348.6	2254.6	2327.5	2353.8	2619.8	2913.3	3068.4	3315.4	4034.2
40°	3063.1	3053.6	2843.6	2651.5	2641.9	2693.7	2988.2	3321.7	3493.8	3733.4	4564.0
42.5°	3672.2	3657.4	3371.3	3181.3	3149.6	3167.7	3413.6	3825.2	4000.4	4243.2	5134.0
45°	4212.5	4208.3	3946.6	3691.1	3634.1	3691.1	3944.5	4414.2	4539.8	4795.3	5703.0
47.5°	4665.4	4665.4	4474.3	4307.6	4278.0	4311.8	4663.2	5067.6	5055.9	5383.2	6257.1
50°	5186.8	5182.6	5001.1	4929.3	4959.9	5007.4	5490.8	5755.8	5590.0	5960.5	6752.2
52.5°	5552.0	5577.3	5515.1	5503.4	5659.7	5742.0	6331.0	6429.2	6068.2	6508.3	7122.6
55°	5841.3	5870.8	5942.5	6023.8	6324.7	6432.4	7144.8	7067.8	6468.3	6983.3	7335.8
57.5°	6250.8	6208.5	6319.4	6479.8	6966.4	7096.3	7933.3	7670.5	6790.1	7368.6	7359.1
60°	6748.0	6754.2	6773.3	6975.9	7607.1	7773.9	8710.1	8240.5	6997.1	7605.0	7101.5
62.5°	7345.4	7354.9	7393.9	7705.3	8467.4	8624.7	9537.7	8707.0	7092.1	7538.6	6436.6
65°	7304.2	7344.3	7780.3	8845.2	9775.2	9930.3	10503.5	9034.1	6948.5	6930.5	5240.6
67.5°	6654.0	6719.5	7448.8	10206.8	11746.9	11920.0	11670.9	9098.6	6328.9	5389.4	3418.8
70°	5801.1	5824.4	6701.4	11431.3	14030.0	14205.2	12715.8	8390.3	4802.6	3006.1	1531.6
72.5°	4530.3	4535.5	5564.7	11715.2	15269.1	15278.6	11895.7	6228.6	2582.9	1154.8	532.0
75°	3236.2	3204.6	3727.0	9500.7	13433.6	13541.3	8918.1	2921.7	986.9	545.7	265.0
77.5°	1735.3	1770.1	2108.9	5634.3	9280.1	9463.8	4866.0	842.3	502.5	371.6	175.2
80°	536.2	565.8	864.5	2579.7	5256.5	5367.3	1803.9	374.7	350.4	265.0	115.0
82.5°	168.9	175.2	403.2	1084.0	2181.7	2232.4	522.4	212.2	239.6	175.2	67.5
85°	48.6	49.6	179.5	404.3	539.4	549.9	146.7	82.3	137.2	108.8	34.8
87.5°	5.2	16.9	67.5	67.5	47.5	46.4	15.8	17.9	39.1	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°	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8	2087.8
2.5°	2092.0	2093.0	2079.4	2056.1	2030.8	2009.7	1983.3	1962.3	1947.4	1943.2	1950.6
5°	2106.8	2099.4	2060.4	1989.6	1905.2	1832.4	1751.1	1686.7	1644.5	1626.6	1632.9
7.5°	2129.0	2107.9	2022.3	1883.0	1721.6	1578.0	1432.3	1319.4	1247.6	1211.8	1217.0
10°	2148.0	2105.8	1959.1	1729.0	1481.9	1264.5	1068.2	932.0	856.0	820.1	821.2
12.5°	2165.9	2104.7	1876.7	1546.3	1211.8	945.8	763.1	695.6	674.4	667.1	665.0
15°	2199.8	2107.9	1773.2	1337.3	942.6	714.6	648.1	647.1	651.3	649.1	648.1
17.5°	2246.2	2111.1	1656.1	1115.7	727.2	630.2	627.0	636.5	642.8	639.6	638.6
20°	2306.4	2123.7	1531.6	896.2	624.8	609.1	616.4	624.8	630.2	624.8	623.8
22.5°	2390.7	2145.8	1395.4	719.9	592.1	596.3	602.7	612.2	617.5	610.1	609.1
25°	2494.2	2180.7	1261.4	626.0	576.4	581.6	591.1	601.7	608.0	600.5	599.5
27.5°	2628.2	2236.7	1137.9	604.9	560.5	563.6	577.4	593.2	601.7	592.1	592.1
30°	2822.4	2328.5	1031.3	614.3	550.9	543.6	562.6	584.8	594.3	585.8	584.8
32.5°	3080.0	2458.3	965.8	629.0	546.7	520.4	538.3	566.8	582.6	577.4	577.4
35°	3417.8	2655.7	940.4	646.0	543.6	496.1	508.8	539.4	566.8	572.1	572.1
37.5°	3827.3	2930.2	947.8	653.3	534.1	476.0	482.4	508.8	544.7	561.5	565.8
40°	4292.8	3250.0	990.0	646.0	523.6	459.2	460.2	480.2	511.9	537.3	545.7
42.5°	4773.0	3623.6	1068.2	618.5	514.0	444.3	441.2	454.9	476.0	493.9	501.3
45°	5230.1	4007.9	1145.2	580.6	502.5	429.6	422.2	427.5	431.7	439.1	443.3
47.5°	5629.1	4278.0	1123.1	545.7	486.6	412.7	400.1	397.9	385.3	384.2	383.1
50°	5904.6	4337.1	997.4	510.9	463.4	393.7	373.6	361.0	338.9	328.3	329.3
52.5°	5992.2	4103.9	814.9	476.0	425.4	368.4	339.9	319.8	292.3	282.9	281.9
55°	5876.1	3646.8	651.3	433.8	372.6	334.6	302.9	276.5	254.4	242.7	242.7
57.5°	5592.2	3065.3	515.1	384.2	316.6	296.6	265.0	238.5	219.6	208.0	205.8
60°	5121.4	2434.1	407.4	325.1	270.2	255.4	222.7	205.8	188.9	175.2	172.1
62.5°	4406.8	1737.4	319.8	257.6	225.9	209.0	190.0	177.3	157.2	138.3	135.1
65°	3438.9	1062.9	247.0	188.9	181.5	173.1	161.5	149.9	125.6	106.6	103.4
67.5°	2169.1	503.5	176.3	142.5	143.5	139.3	134.1	124.5	106.6	89.7	87.6
70°	955.2	243.8	116.1	108.8	106.6	106.6	110.8	107.6	90.8	74.9	71.8
72.5°	325.1	130.9	86.5	82.3	77.1	76.0	92.9	89.7	72.9	58.0	54.8
75°	169.9	87.6	63.3	59.1	46.4	56.0	73.9	69.7	51.8	38.0	34.8
77.5°	110.8	62.3	43.3	38.0	26.3	36.9	54.8	48.6	30.6	19.0	16.9
80°	69.7	41.2	25.3	17.9	12.7	20.1	29.5	21.1	11.6	4.2	3.2
82.5°	36.9	21.1	9.5	6.4	5.2	6.4	7.4	5.2	2.2	0.0	0.0
85°	14.8	7.4	3.2	2.2	1.0	0.0	2.2	1.0	0.0	0.0	0.0
87.5°	5.2	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)