

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: P969750

Luminaire Tested: **NAV-SB6A-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969750
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-SB6A-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA 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: 18064.6 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

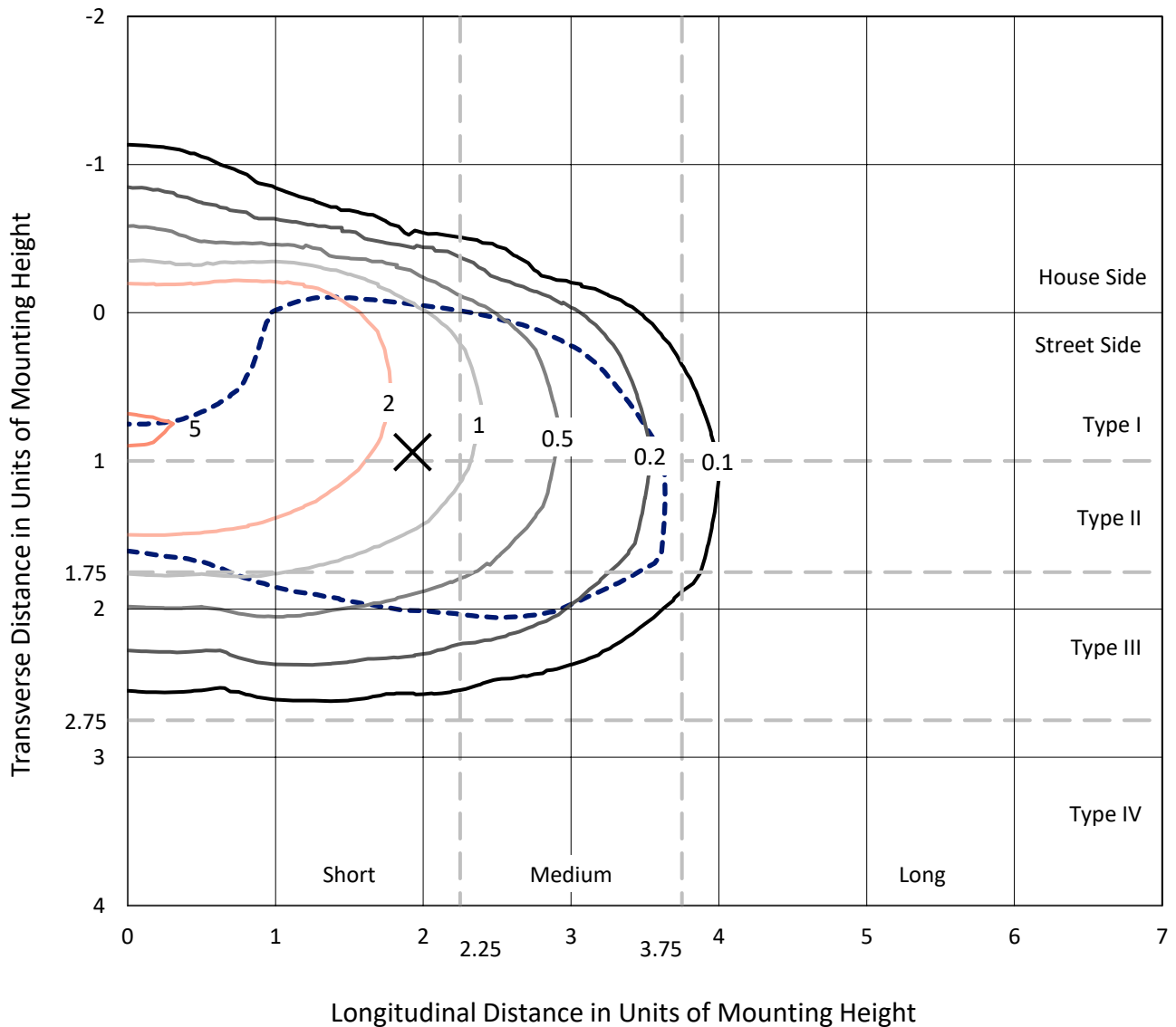
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

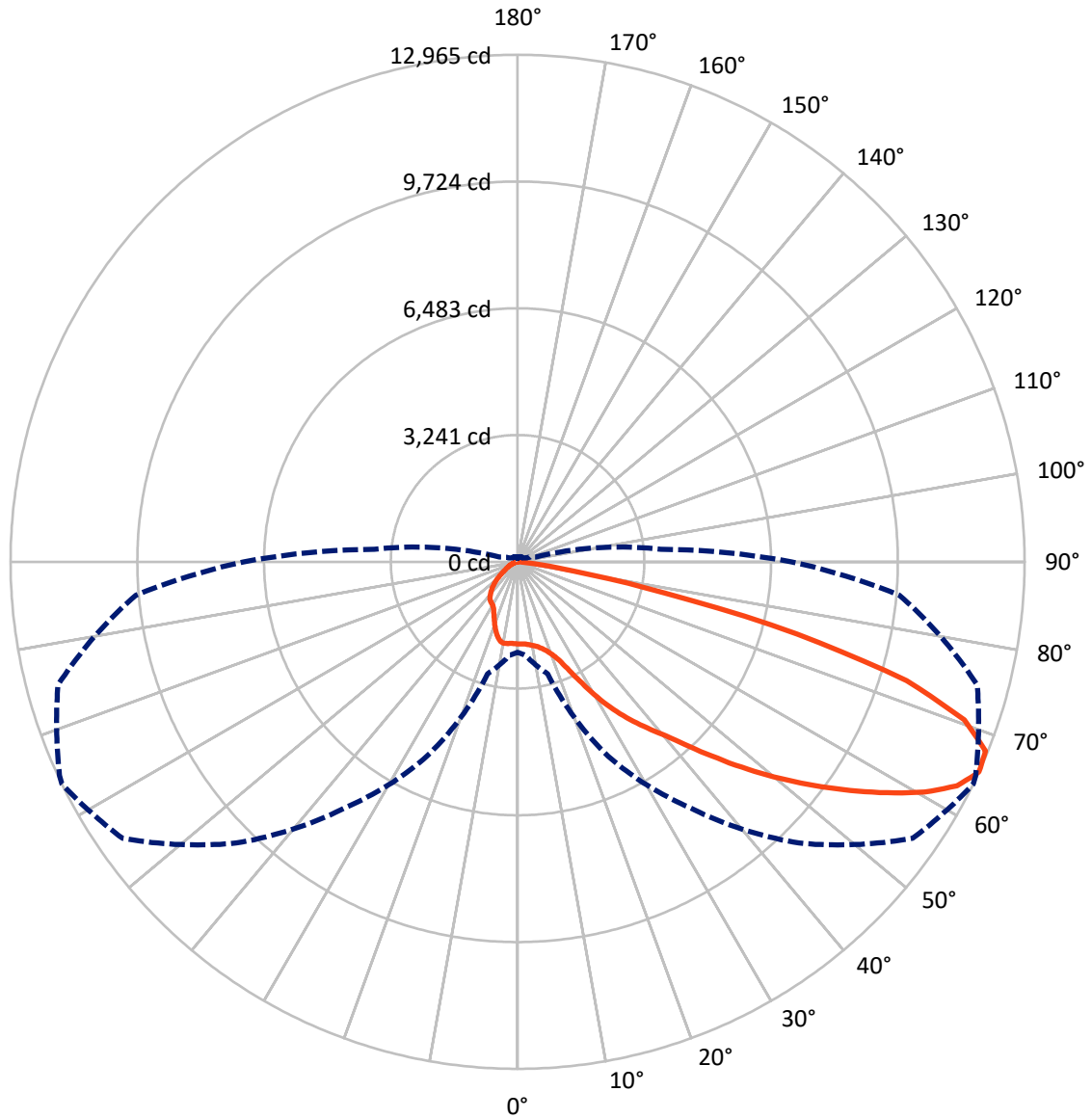
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2415.8	0.0	2415.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15648.8	0.0	15648.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	18064.6	0.0	18064.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	1.1
10°-20°	525.8	2.9
20°-30°	996.3	5.5
30°-40°	2016.0	11.2
40°-50°	3434.3	19.0
50°-60°	4670.4	25.9
60°-70°	4385.7	24.3
70°-80°	1757.1	9.7
80°-90°	85.1	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°	18064.6	100.0
0°-180°	18064.6	100.0

Coefficient of Utilization



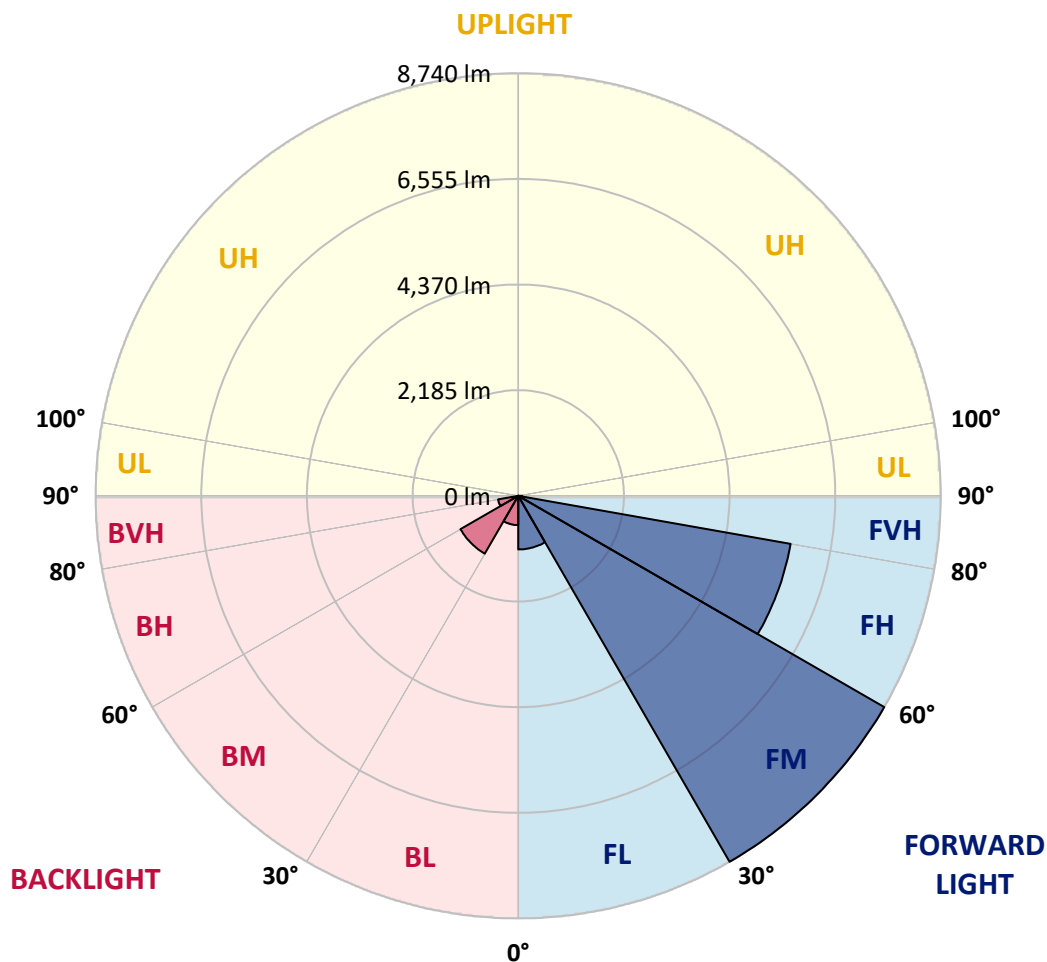
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.4	6.1			
FM (30°-60°)	8739.6	48.4			
FH (60°-80°)	5718.8	31.7			G3/7500
FVH (80°-90°)	81.0	0.4			G1/100
BL (0°-30°)	606.5	3.4	B2/1000		
BM (30°-60°)	1381.1	7.6	B2/2500		
BH (60°-80°)	424.0	2.3	B1/500		G1/500
BVH (80°-90°)	4.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2093.9	2108.3	2104.7	2101.1	2099.9	2102.3	2103.5	2102.3	2102.3	2102.3	2103.5
5°	2053.9	2066.0	2066.0	2074.5	2086.6	2101.1	2112.0	2114.5	2116.8	2120.5	2119.3
7.5°	1977.5	1987.3	1994.5	2022.4	2052.7	2091.4	2124.1	2141.0	2143.5	2156.8	2161.6
10°	1925.5	1937.7	1949.8	1978.8	2022.4	2080.5	2136.2	2177.4	2183.5	2214.9	2229.5
12.5°	1923.1	1935.2	1951.0	1982.5	2033.3	2095.0	2162.9	2222.2	2233.1	2279.1	2309.4
15°	1948.5	1963.1	1977.5	2016.4	2070.8	2145.9	2218.6	2292.4	2303.4	2368.8	2401.5
17.5°	2000.6	2020.0	2030.8	2069.6	2127.7	2211.3	2307.0	2391.7	2401.5	2477.7	2518.9
20°	2103.5	2126.6	2130.2	2161.6	2218.6	2308.2	2422.0	2527.3	2539.4	2626.7	2672.7
22.5°	2316.7	2349.4	2320.3	2336.1	2386.9	2476.5	2600.0	2733.3	2750.2	2849.5	2890.7
25°	2692.1	2738.1	2663.1	2636.4	2658.1	2751.4	2906.4	3074.8	3094.2	3174.0	3194.6
27.5°	3429.5	3370.2	3256.4	3145.0	3079.6	3132.9	3307.3	3515.5	3539.7	3617.3	3593.0
30°	4239.7	4187.6	4033.9	3786.9	3631.8	3623.4	3784.4	4016.9	4044.8	4118.7	4044.8
32.5°	5051.1	5001.5	4834.3	4530.4	4261.5	4128.3	4239.7	4497.7	4512.3	4559.4	4450.4
35°	5849.2	5798.3	5631.1	5320.0	4989.4	4686.6	4664.8	4955.5	4960.3	5010.0	4847.6
37.5°	6652.0	6609.7	6431.7	6126.5	5800.8	5382.9	5180.7	5389.0	5395.1	5443.5	5275.2
40°	7224.9	7243.1	7120.8	6884.6	6604.8	6148.3	5759.6	5850.4	5814.0	5895.2	5794.6
42.5°	7716.5	7752.9	7646.3	7527.6	7365.3	6963.3	6476.5	6460.8	6402.6	6446.2	6342.1
45°	8141.6	8171.9	8076.2	8048.4	8044.7	7762.5	7260.0	7165.6	7084.4	7075.9	6951.2
47.5°	8297.8	8356.0	8397.1	8490.4	8672.0	8553.3	8070.1	7923.7	7832.8	7766.2	7568.8
50°	8357.1	8418.9	8559.4	8830.7	9260.6	9311.4	8876.7	8712.0	8600.6	8479.5	8188.8
52.5°	8277.3	8387.5	8576.4	9032.9	9656.6	9919.3	9650.6	9506.5	9379.3	9181.8	8750.7
55°	7806.2	7916.4	8302.7	9030.5	9853.9	10345.6	10382.0	10317.8	10174.9	9863.7	9204.9
57.5°	6813.2	6976.7	7588.2	8722.9	9850.4	10712.6	11098.9	11144.9	10985.0	10539.5	9562.1
60°	5437.4	5659.0	6405.0	8041.1	9546.3	10911.2	11727.4	11957.5	11788.0	11205.5	9851.6
62.5°	3794.1	4050.8	4756.8	6973.0	8851.3	10768.3	12186.4	12611.5	12483.1	11801.2	9963.0
65°	2314.2	2396.6	2965.7	5487.1	7669.4	10170.0	12328.1	12965.0	12922.7	12165.8	9798.3
67.5°	1541.6	1610.7	1774.2	3762.6	5953.3	8974.8	11989.0	12903.3	12915.4	12106.5	9195.2
70°	928.9	988.2	1094.8	2188.3	3858.3	7103.8	10939.0	12116.1	12186.4	11313.2	8052.0
72.5°	382.6	422.6	519.6	991.8	1998.1	4508.6	8710.8	10402.5	10566.0	9512.5	6179.8
75°	216.8	237.4	305.1	497.7	867.0	2101.1	5276.4	7384.7	7625.7	6556.4	3717.8
77.5°	144.1	153.8	197.4	322.2	488.0	716.9	2254.9	3847.3	4307.6	3580.9	1609.5
80°	96.9	105.4	135.6	215.6	317.2	307.6	718.1	1425.4	1753.6	1230.4	392.4
82.5°	65.4	66.6	96.9	141.7	201.0	148.9	212.0	443.2	557.1	356.1	148.9
85°	37.5	36.3	71.4	82.3	89.6	61.8	64.2	133.2	174.4	150.2	84.8
87.5°	4.8	7.3	27.9	21.8	12.1	13.3	13.3	23.0	33.9	36.3	18.1
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°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2103.5	2102.3	2098.7	2095.0	2086.6	2081.8	2084.1	2081.8	2080.5	2081.8	2086.6
5°	2119.3	2115.6	2106.0	2093.9	2076.9	2056.3	2042.9	2023.6	2005.4	1994.5	1996.9
7.5°	2161.6	2158.0	2144.7	2110.8	2056.3	1970.4	1891.6	1822.6	1770.5	1740.2	1741.5
10°	2229.5	2223.4	2202.8	2127.7	1984.8	1797.1	1640.9	1511.4	1426.6	1386.6	1382.9
12.5°	2309.4	2302.1	2265.8	2112.0	1849.2	1556.2	1340.6	1196.5	1117.8	1082.6	1079.0
15°	2403.8	2394.2	2322.8	2036.9	1651.8	1289.8	1092.3	984.5	933.7	902.2	903.4
17.5°	2521.3	2504.4	2365.1	1924.3	1437.5	1086.3	939.7	858.6	813.7	783.5	781.0
20°	2673.9	2646.0	2399.0	1789.9	1240.0	957.9	836.8	769.0	735.1	708.5	703.6
22.5°	2887.0	2847.0	2440.2	1644.5	1100.8	869.5	760.6	710.8	683.1	652.7	647.9
25°	3151.1	3103.8	2491.1	1510.1	1005.1	793.2	704.8	663.6	630.9	595.8	592.1
27.5°	3520.4	3435.6	2551.6	1399.9	922.8	727.9	653.9	607.9	570.4	541.3	535.3
30°	3932.1	3792.9	2604.8	1333.3	847.7	667.3	587.3	541.3	506.2	485.6	482.0
32.5°	4322.1	4133.2	2640.0	1304.2	779.9	598.2	514.7	465.0	438.4	432.3	435.9
35°	4690.2	4440.8	2636.4	1276.4	719.3	529.2	443.2	392.4	371.8	375.5	375.5
37.5°	5114.1	4768.9	2611.0	1232.8	669.7	466.3	381.5	336.6	318.5	319.7	324.5
40°	5607.0	5148.0	2595.2	1150.5	615.2	408.2	330.6	294.3	281.0	276.1	274.9
42.5°	6132.6	5514.9	2597.7	1057.2	547.3	356.1	295.5	265.2	253.1	249.5	248.3
45°	6660.6	5864.9	2601.2	960.3	475.9	316.1	270.1	244.7	237.4	232.5	232.5
47.5°	7157.1	6162.8	2533.4	856.2	405.7	285.8	249.5	232.5	226.4	220.4	220.4
50°	7619.6	6361.5	2369.9	735.1	349.9	261.6	233.7	221.6	215.6	209.5	209.5
52.5°	7979.3	6392.9	2099.9	610.4	311.2	243.4	224.1	213.1	205.9	199.8	198.6
55°	8139.2	6195.5	1716.0	494.0	281.0	227.7	214.3	203.5	195.0	188.9	187.7
57.5°	8098.0	5780.2	1338.1	397.2	251.8	212.0	202.2	195.0	185.3	175.6	174.4
60°	7895.8	5224.3	1008.8	330.6	225.3	195.0	188.9	182.9	169.5	155.0	152.6
62.5°	7545.8	4525.6	719.3	273.7	196.2	175.6	173.2	168.3	148.9	122.3	119.9
65°	7010.5	3676.6	484.4	227.7	168.3	153.8	155.0	146.6	121.1	90.8	88.4
67.5°	6228.2	2688.5	310.1	186.4	140.5	128.3	129.6	124.7	102.9	77.5	73.9
70°	5231.6	1780.2	202.2	141.7	112.6	99.3	106.6	107.8	87.2	62.9	60.6
72.5°	3835.2	1051.1	141.7	105.4	82.3	69.0	87.2	89.6	70.2	47.3	44.8
75°	2185.9	499.0	106.6	76.3	50.8	48.5	67.9	67.9	48.5	31.5	29.1
77.5°	918.0	208.3	75.1	49.6	29.1	27.9	46.0	42.4	24.2	14.6	14.6
80°	265.2	93.3	40.0	24.2	12.1	10.9	18.1	13.3	6.0	2.5	2.5
82.5°	104.1	41.2	15.8	9.7	4.8	4.8	2.5	0.0	0.0	0.0	0.0
85°	61.8	16.9	7.3	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	3.6	2.5	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)