

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: P969754

Luminaire Tested: **NAV-SB6A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969754
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-SB6A-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA 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: 17439.3 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

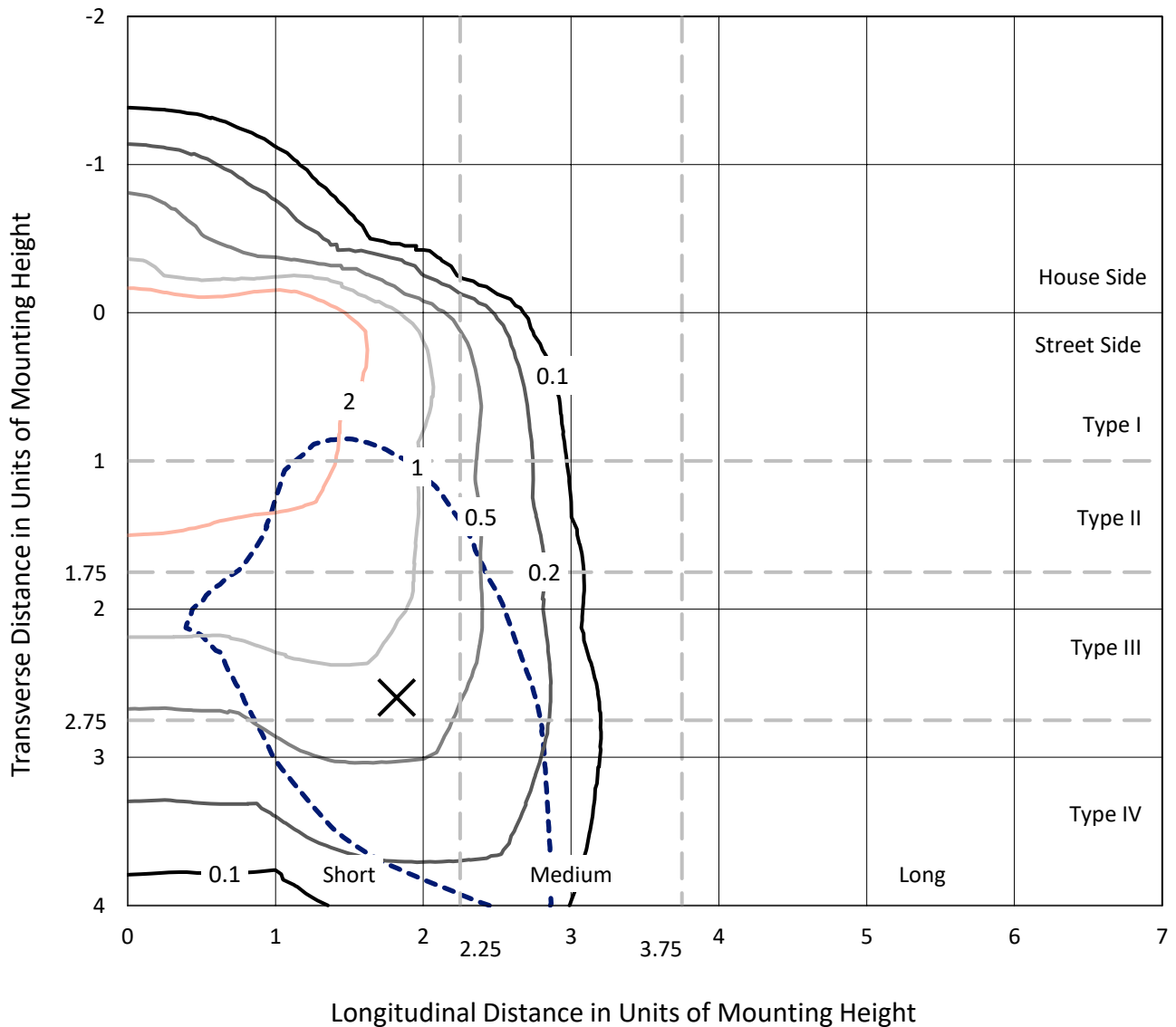
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

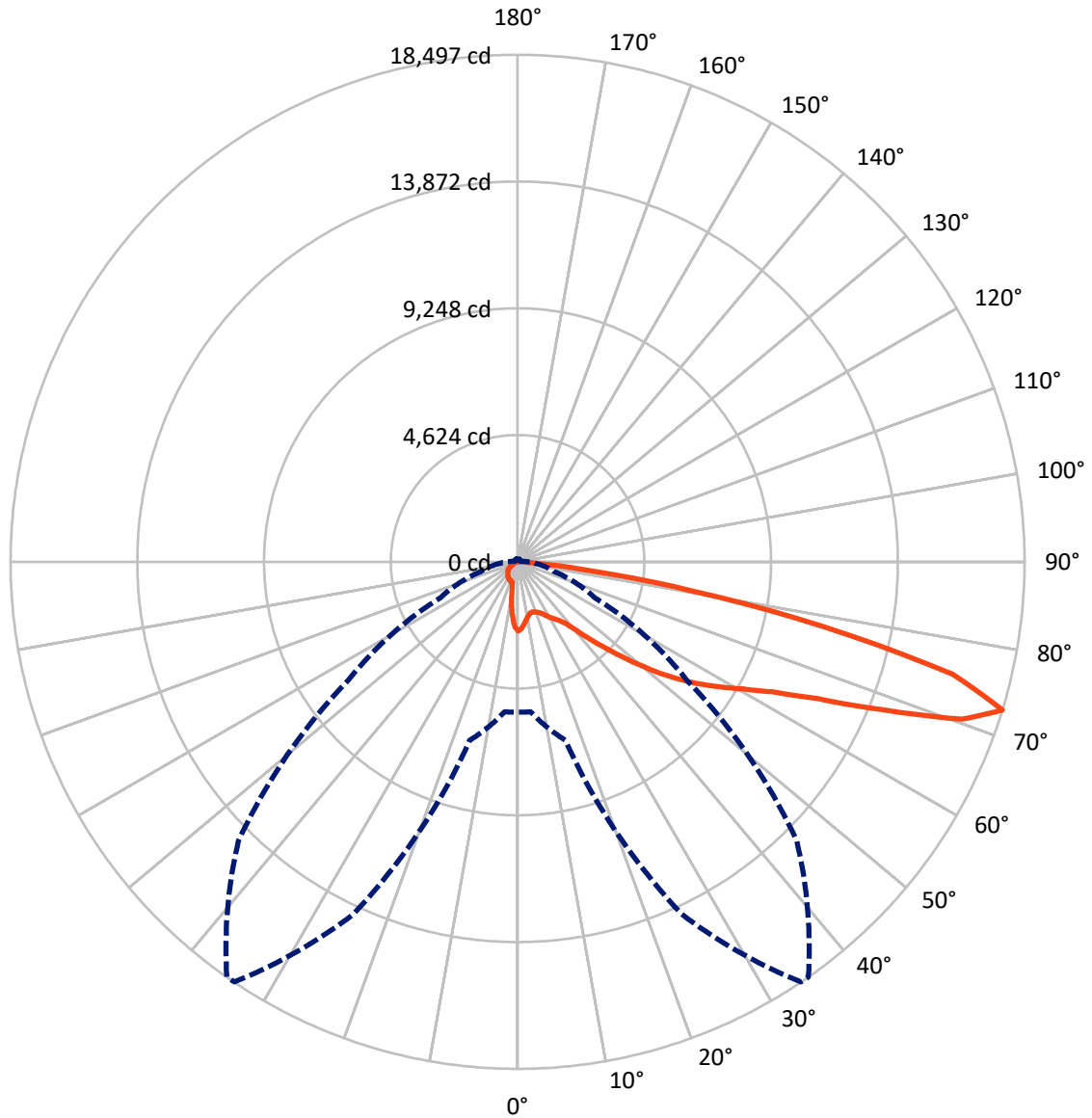
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1962.7	0.0	1962.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15476.6	0.0	15476.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	17439.3	0.0	17439.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.2
10°-20°	485.9	2.8
20°-30°	789.3	4.5
30°-40°	1316.9	7.6
40°-50°	2491.7	14.3
50°-60°	3959.3	22.7
60°-70°	4897.9	28.1
70°-80°	3044.6	17.5
80°-90°	246.0	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°	17439.3	100.0
0°-180°	17439.3	100.0

Coefficient of Utilization



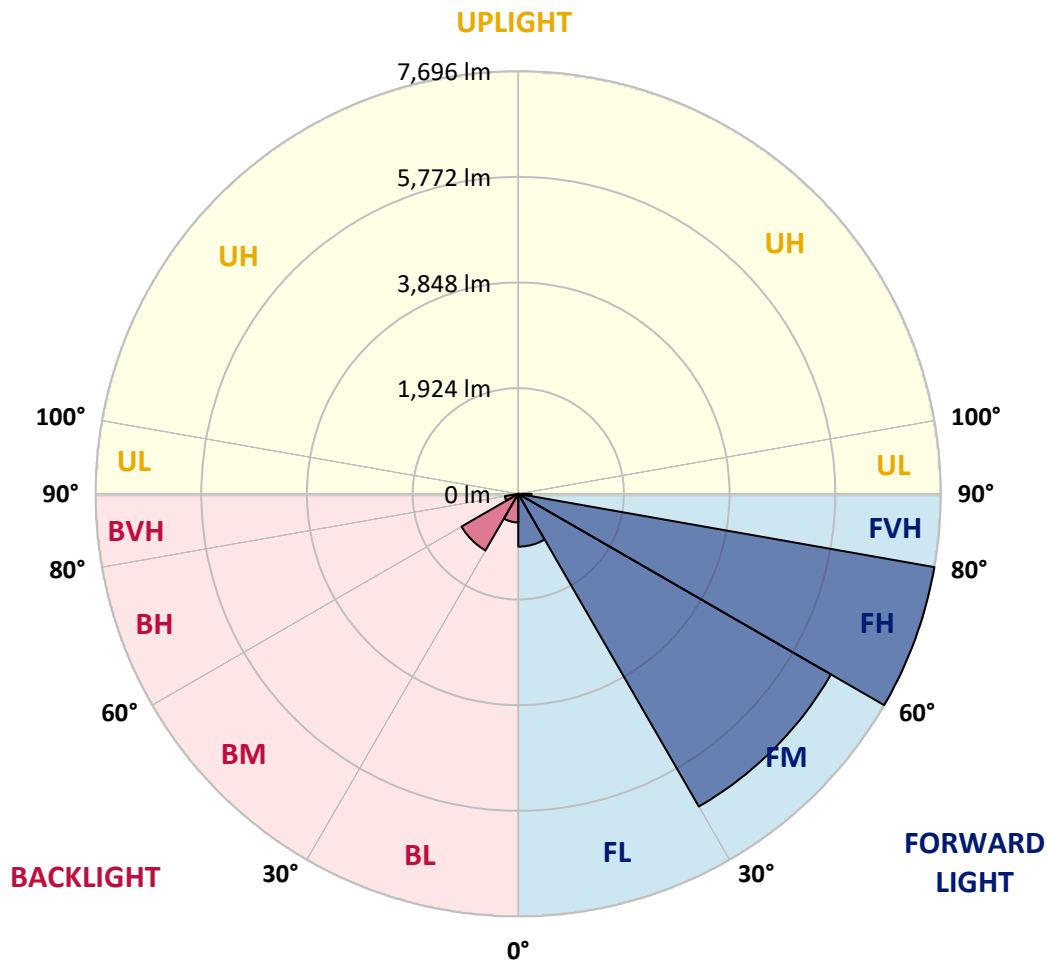
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.3	5.5			
FM (30°-60°)	6576.4	37.7			
FH (60°-80°)	7696.2	44.1			G4/12000
FVH (80°-90°)	242.7	1.4			G3/500
BL (0°-30°)	521.5	3.0	B2/1000		
BM (30°-60°)	1191.5	6.8	B2/2500		
BH (60°-80°)	246.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5
2.5°	2415.1	2435.5	2439.4	2445.8	2445.8	2453.4	2466.3	2484.1	2513.5	2528.8	2539.0
5°	2226.0	2241.3	2260.4	2275.8	2305.2	2309.0	2358.8	2407.4	2475.2	2526.3	2562.1
7.5°	2035.5	2053.5	2079.0	2116.1	2154.4	2165.9	2241.3	2323.1	2430.5	2526.3	2586.3
10°	1901.4	1902.7	1925.7	1962.8	2024.1	2038.1	2130.2	2246.4	2380.6	2510.9	2609.3
12.5°	1826.0	1835.0	1845.2	1873.3	1932.1	1941.0	2039.4	2176.2	2330.7	2502.0	2636.2
15°	1826.0	1832.4	1838.7	1852.9	1900.1	1907.8	1994.6	2131.4	2305.2	2505.8	2679.7
17.5°	1845.2	1855.5	1850.3	1866.9	1916.7	1921.9	1998.5	2118.7	2303.9	2530.1	2746.1
20°	1891.2	1898.8	1888.7	1898.8	1948.7	1958.9	2038.1	2143.0	2325.6	2572.2	2829.1
22.5°	1964.0	1967.9	1943.6	1951.3	2002.3	2015.2	2107.1	2212.0	2378.0	2640.0	2940.3
25°	2056.0	2063.7	2026.6	2035.5	2084.1	2099.5	2205.5	2315.5	2461.1	2733.3	3082.2
27.5°	2162.1	2165.9	2133.9	2132.7	2195.3	2217.1	2324.4	2443.2	2572.2	2850.8	3261.0
30°	2283.5	2295.0	2264.3	2259.2	2338.4	2356.3	2462.4	2600.4	2735.8	3027.1	3515.3
32.5°	2379.3	2388.2	2370.4	2383.1	2463.7	2477.7	2629.7	2822.7	2992.7	3277.6	3861.6
35°	2517.3	2522.4	2481.5	2504.6	2596.5	2632.3	2858.5	3134.6	3316.0	3592.0	4313.9
37.5°	3017.0	3017.0	2843.1	2729.5	2817.6	2849.6	3171.6	3526.8	3714.6	4013.7	4883.8
40°	3708.2	3696.8	3442.5	3209.9	3198.4	3261.0	3617.5	4021.3	4229.7	4519.6	5525.4
42.5°	4445.5	4427.7	4081.3	3851.3	3813.0	3834.7	4132.5	4630.8	4843.0	5136.9	6215.4
45°	5099.8	5094.7	4777.8	4468.6	4399.6	4468.6	4775.3	5343.8	5495.9	5805.2	6904.1
47.5°	5648.0	5648.0	5416.7	5214.8	5179.0	5219.9	5645.5	6134.8	6120.8	6517.0	7575.0
50°	6279.3	6274.1	6054.4	5967.4	6004.6	6062.1	6647.2	6968.1	6767.4	7215.9	8174.3
52.5°	6721.3	6752.1	6676.6	6662.6	6851.7	6951.3	7664.4	7783.2	7346.3	7879.1	8622.8
55°	7071.5	7107.2	7194.2	7292.6	7656.7	7787.1	8649.7	8556.4	7830.5	8454.1	8880.9
57.5°	7567.3	7516.2	7650.4	7844.6	8433.7	8590.8	9604.1	9286.0	8220.3	8920.6	8909.0
60°	8169.1	8176.8	8199.8	8445.2	9209.3	9411.2	10544.7	9976.0	8470.7	9206.8	8597.2
62.5°	8892.4	8903.9	8951.2	9328.1	10250.7	10441.2	11546.4	10540.8	8585.7	9126.3	7792.2
65°	8842.6	8891.2	9418.9	10708.2	11833.9	12021.8	12715.6	10937.0	8412.0	8390.2	6344.4
67.5°	8055.5	8134.7	9017.6	12356.6	14221.0	14430.6	14129.0	11014.9	7661.9	6524.6	4138.8
70°	7023.0	7051.1	8113.0	13838.9	16984.9	17197.0	15394.0	10157.4	5814.1	3639.3	1854.1
72.5°	5484.5	5490.8	6736.7	14182.6	18485.1	18496.5	14401.1	7540.5	3126.9	1397.9	644.0
75°	3917.9	3879.5	4512.0	11501.7	16263.0	16393.2	10796.4	3537.1	1194.7	660.6	320.7
77.5°	2100.7	2143.0	2553.1	6821.1	11234.7	11457.0	5890.8	1019.7	608.2	449.8	212.1
80°	649.1	684.9	1046.5	3123.0	6363.6	6497.8	2183.8	453.7	424.2	320.7	139.3
82.5°	204.5	212.1	488.1	1312.3	2641.3	2702.6	632.5	256.9	290.1	212.1	81.8
85°	58.7	60.1	217.2	489.4	652.9	665.7	177.6	99.6	166.2	131.6	42.1
87.5°	6.4	20.4	81.8	81.8	57.5	56.3	19.2	21.7	47.3	16.6	7.7
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°	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5
2.5°	2532.7	2533.9	2517.3	2489.2	2458.6	2432.9	2401.1	2375.4	2357.6	2352.5	2361.4
5°	2550.5	2541.6	2494.3	2408.8	2306.5	2218.3	2119.9	2042.0	1990.9	1969.1	1976.8
7.5°	2577.4	2551.8	2448.3	2279.6	2084.1	1910.4	1734.0	1597.3	1510.4	1467.0	1473.3
10°	2600.4	2549.3	2371.6	2093.0	1794.1	1530.8	1293.1	1128.3	1036.3	992.9	994.1
12.5°	2622.2	2547.9	2272.0	1872.1	1467.0	1144.9	923.8	842.1	816.5	807.6	805.0
15°	2663.0	2551.8	2146.8	1619.0	1141.1	865.1	784.6	783.3	788.4	785.9	784.6
17.5°	2719.2	2555.6	2004.9	1350.6	880.5	762.9	759.0	770.5	778.2	774.4	773.1
20°	2792.1	2571.0	1854.1	1084.9	756.4	737.3	746.3	756.4	762.9	756.4	755.2
22.5°	2894.3	2597.9	1689.3	871.5	716.9	722.0	729.6	741.2	747.5	738.6	737.3
25°	3019.5	2640.0	1527.0	757.8	697.7	704.1	715.6	728.4	736.1	727.1	725.8
27.5°	3181.8	2707.7	1377.5	732.2	678.6	682.3	698.9	718.1	728.4	716.9	716.9
30°	3416.9	2818.9	1248.4	743.7	667.1	658.0	681.1	708.0	719.4	709.2	708.0
32.5°	3728.7	2976.1	1169.2	761.6	661.9	630.0	651.7	686.2	705.4	698.9	698.9
35°	4137.6	3215.0	1138.6	782.1	658.0	600.5	615.9	652.9	686.2	692.6	692.6
37.5°	4633.4	3547.2	1147.5	791.0	646.6	576.3	583.9	615.9	659.4	679.8	684.9
40°	5197.0	3934.5	1198.6	782.1	633.8	555.9	557.1	581.4	619.7	650.5	660.6
42.5°	5778.3	4386.8	1293.1	748.8	622.3	537.9	534.1	550.7	576.3	598.0	607.0
45°	6331.6	4851.9	1386.4	702.8	608.2	520.1	511.2	517.5	522.6	531.6	536.7
47.5°	6814.7	5179.0	1359.6	660.6	589.1	499.6	484.3	481.7	466.4	465.1	463.8
50°	7148.1	5250.6	1207.6	618.5	561.0	476.6	452.3	437.1	410.2	397.4	398.7
52.5°	7254.2	4968.2	986.5	576.3	515.0	446.0	411.4	387.1	353.9	342.5	341.2
55°	7113.7	4414.9	788.4	525.2	451.1	405.1	366.7	334.8	307.9	293.9	293.9
57.5°	6769.9	3710.8	623.6	465.1	383.3	359.1	320.7	288.7	265.8	251.7	249.2
60°	6200.0	2946.7	493.2	393.6	327.1	309.2	269.6	249.2	228.8	212.1	208.3
62.5°	5334.9	2103.3	387.1	311.8	273.5	253.0	230.0	214.6	190.4	167.4	163.6
65°	4163.1	1286.8	299.0	228.8	219.8	209.6	195.5	181.4	152.1	129.0	125.3
67.5°	2625.9	609.6	213.4	172.5	173.7	168.7	162.3	150.8	129.0	108.6	106.1
70°	1156.4	295.2	140.5	131.6	129.0	129.0	134.2	130.4	109.9	90.7	86.9
72.5°	393.6	158.5	104.8	99.6	93.3	92.0	112.4	108.6	88.1	70.3	66.4
75°	205.7	106.1	76.7	71.5	56.3	67.8	89.5	84.4	62.6	46.0	42.1
77.5°	134.2	75.4	52.4	46.0	32.0	44.7	66.4	58.7	37.1	23.0	20.4
80°	84.4	49.8	30.6	21.7	15.4	24.3	35.8	25.5	14.0	5.1	3.8
82.5°	44.7	25.5	11.5	7.7	6.4	7.7	8.9	6.4	2.6	0.0	0.0
85°	17.9	8.9	3.8	2.6	1.2	0.0	2.6	1.2	0.0	0.0	0.0
87.5°	6.4	1.2	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)