

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: P964486

Luminaire Tested: **NAV-SB3C-722-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-722-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

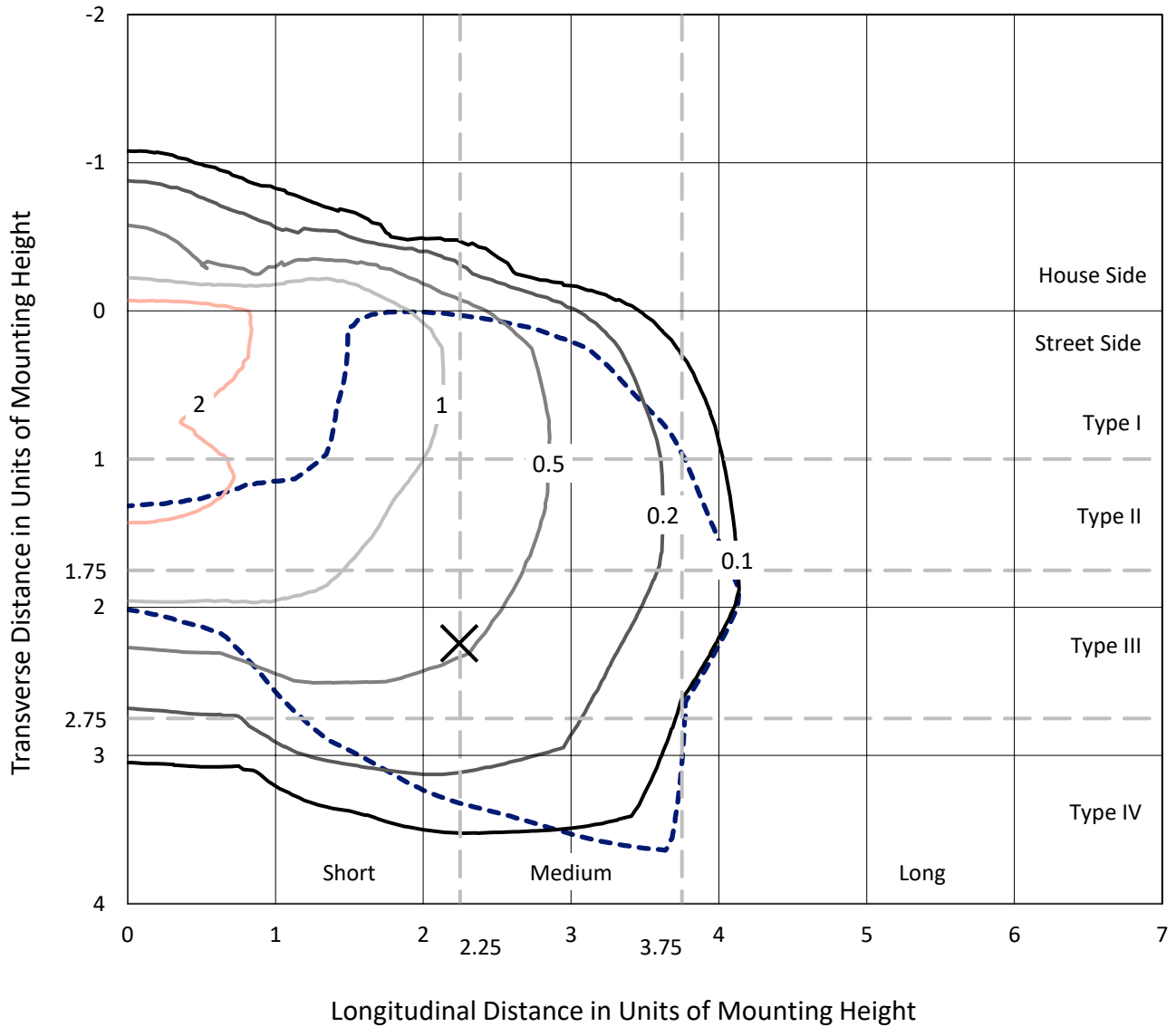
Lumens per Lamp: N/A  
Luminaire Lumens: 14655.5 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

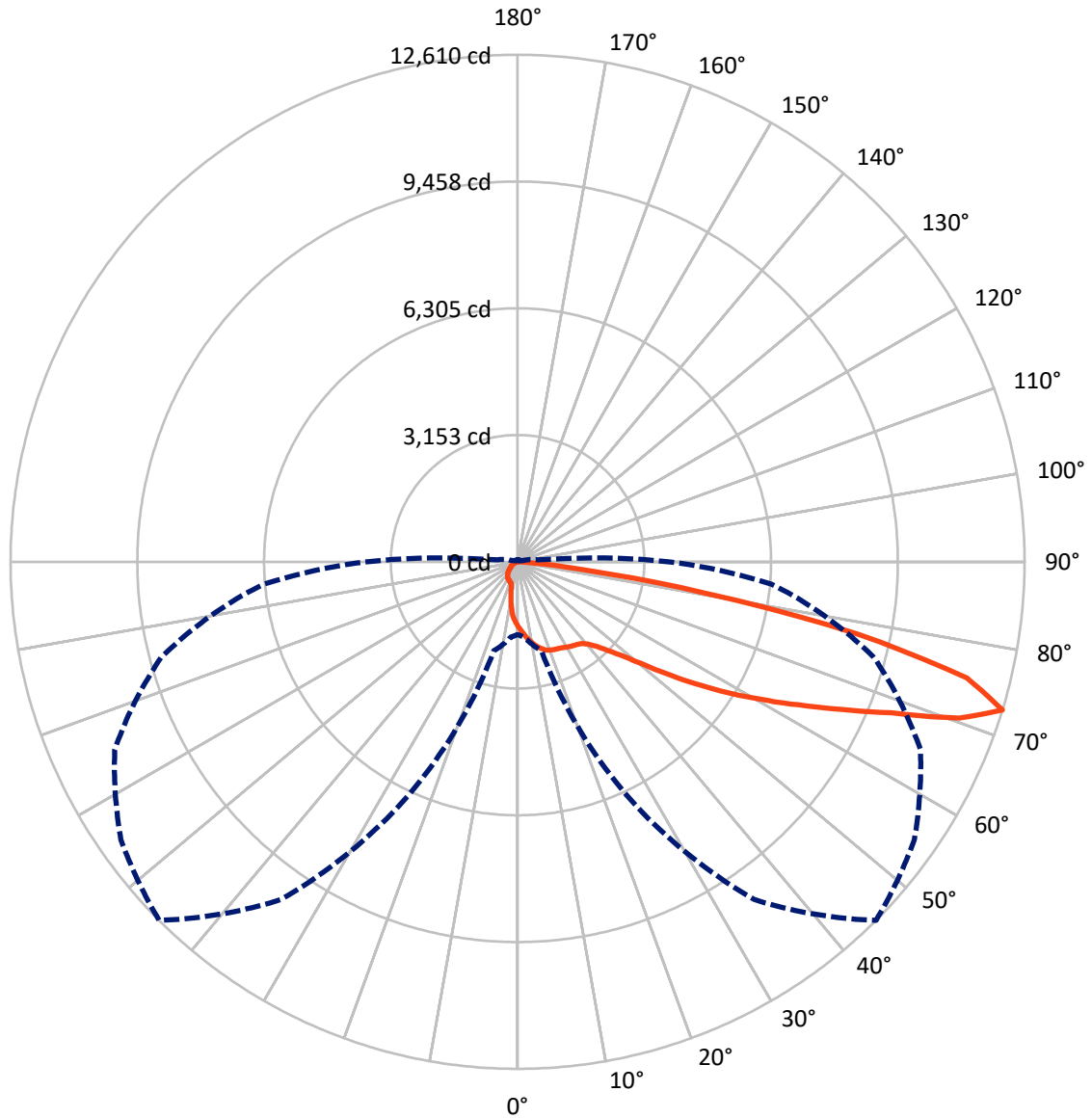
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1539.9	0.0	1539.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13115.6	0.0	13115.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	14655.5	0.0	14655.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.3	1.0
10°-20°	442.1	3.0
20°-30°	726.0	5.0
30°-40°	1029.7	7.0
40°-50°	1701.9	11.6
50°-60°	3057.3	20.9
60°-70°	4245.2	29.0
70°-80°	3079.4	21.0
80°-90°	222.6	1.5
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°	14655.5	100.0
0°-180°	14655.5	100.0

**Coefficient of Utilization**

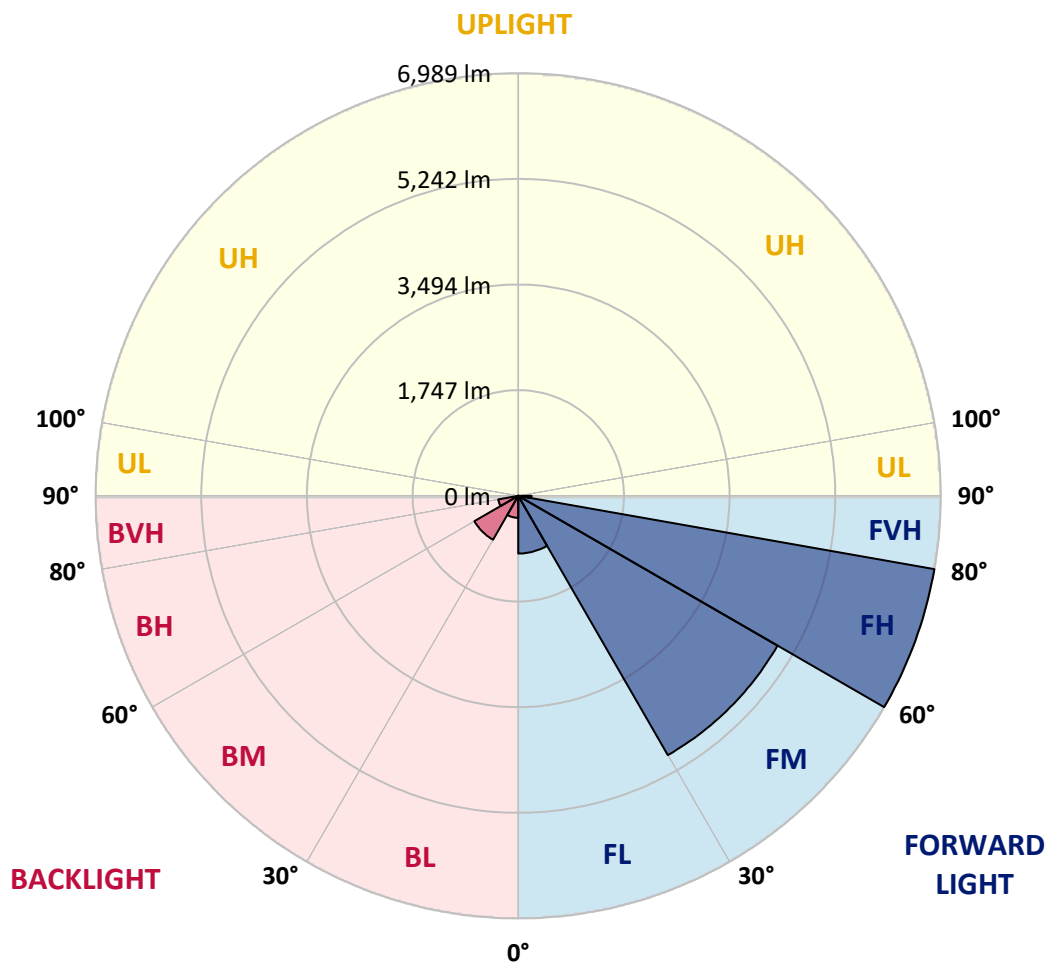


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.7	6.5			
FM (30°-60°)	4951.4	33.8			
FH (60°-80°)	6988.8	47.7			G3/7500
FVH (80°-90°)	220.8	1.5			G2/225
BL (0°-30°)	364.7	2.5	B1/500		
BM (30°-60°)	837.5	5.7	B1/1000		
BH (60°-80°)	335.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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°	35°	45°	46°	55°	65°	75°	85°
0°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1753.6	1756.5	1754.6	1742.6	1722.6	1711.5	1705.6	1685.6	1672.6	1649.5	1625.5
5°	1914.6	1926.7	1919.6	1895.6	1857.6	1830.6	1822.7	1781.6	1744.6	1701.6	1651.6
7.5°	2085.7	2091.7	2078.7	2047.6	1996.7	1950.7	1943.6	1886.6	1827.6	1761.6	1693.6
10°	2233.8	2240.8	2220.8	2175.8	2117.8	2060.7	2050.7	1987.7	1917.7	1836.6	1749.6
12.5°	2357.8	2364.8	2338.7	2284.7	2220.8	2161.7	2151.7	2085.7	2008.7	1918.6	1810.6
15°	2451.8	2464.8	2429.8	2371.7	2302.8	2243.7	2238.7	2173.7	2098.7	1998.6	1883.6
17.5°	2506.8	2519.9	2486.9	2416.8	2357.8	2307.8	2301.7	2247.7	2177.7	2081.7	1954.7
20°	2515.9	2527.9	2492.8	2431.8	2382.8	2342.7	2339.8	2300.8	2249.8	2157.7	2031.7
22.5°	2488.8	2503.9	2471.8	2422.8	2388.8	2367.8	2363.8	2341.8	2312.8	2234.7	2103.7
25°	2460.8	2472.8	2448.8	2405.8	2387.8	2385.8	2388.8	2384.8	2378.8	2312.8	2187.8
27.5°	2458.8	2471.8	2444.8	2403.8	2393.8	2414.8	2417.8	2436.8	2441.9	2383.8	2268.7
30°	2475.8	2484.8	2458.8	2415.8	2410.8	2458.8	2459.8	2493.8	2501.8	2443.8	2348.8
32.5°	2512.8	2522.8	2496.8	2433.9	2426.8	2493.8	2496.8	2541.9	2554.8	2507.9	2432.8
35°	2599.9	2611.9	2581.9	2483.8	2458.8	2526.8	2535.8	2588.8	2614.9	2575.8	2519.9
37.5°	2816.9	2782.0	2741.0	2584.8	2531.9	2578.9	2593.9	2655.9	2701.9	2656.9	2623.9
40°	3356.2	3246.1	3118.0	2756.9	2659.9	2689.9	2701.9	2763.9	2827.0	2783.0	2766.9
42.5°	4165.4	4035.3	3829.3	3153.0	2853.0	2868.0	2877.0	2931.0	3020.0	2985.0	2989.0
45°	4886.6	4839.6	4629.5	3829.3	3214.1	3140.1	3151.1	3179.0	3310.1	3297.1	3323.2
47.5°	5440.8	5413.8	5251.8	4605.5	3824.3	3473.1	3504.2	3517.2	3706.2	3752.2	3822.2
50°	5867.0	5857.0	5711.9	5295.8	4621.5	3964.3	3975.4	3947.3	4230.4	4344.5	4477.5
52.5°	6269.1	6303.1	6196.0	5937.0	5472.8	4607.6	4605.5	4473.5	4855.6	5027.7	5254.8
55°	6632.3	6644.3	6655.2	6591.2	6329.1	5339.7	5320.8	5104.7	5580.8	5759.0	6005.0
57.5°	6973.3	6978.3	7076.4	7207.4	7220.4	6126.0	6091.1	5831.9	6373.1	6500.1	6651.2
60°	7202.4	7225.4	7432.5	7796.6	7955.6	6937.3	6918.3	6654.2	7179.4	7238.4	7210.4
62.5°	6872.3	7012.3	7534.5	8256.8	8649.9	7836.6	7827.6	7579.6	8027.7	7979.6	7739.6
65°	5562.9	5800.0	6718.3	8567.9	9331.1	8840.9	8853.9	8589.9	8898.9	8742.9	8169.8
67.5°	3891.3	4141.4	5227.7	8592.9	10092.4	10020.3	10095.3	9681.2	9824.3	9474.2	8271.8
70°	2690.9	2820.0	3527.1	8054.7	10685.5	11644.9	11642.9	11021.7	10744.6	9807.3	7751.6
72.5°	1809.6	1876.7	2290.8	6390.2	10249.4	12610.2	12552.2	12046.0	11054.7	9172.1	6333.1
75°	763.2	812.3	1060.4	3591.2	8108.7	11536.9	11379.8	10645.5	9822.3	7222.5	3951.3
77.5°	242.1	263.1	418.1	1285.5	4466.5	8671.9	8505.9	6648.3	6583.2	3623.2	1444.5
80°	115.0	134.1	235.0	516.2	1757.6	4716.5	4693.6	3016.0	2832.0	978.4	290.1
82.5°	50.0	59.0	130.1	276.1	786.3	1682.5	1716.6	1026.3	849.3	371.2	89.1
85°	16.0	21.0	60.1	127.0	332.1	418.1	413.2	244.1	342.1	202.0	31.1
87.5°	0.0	0.0	20.0	29.0	34.0	24.0	27.1	21.0	95.0	56.1	11.0
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°	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6	1605.6
2.5°	1613.6	1597.6	1569.5	1543.5	1520.5	1497.5	1483.5	1463.5	1461.4	1461.4	1466.5
5°	1624.5	1598.5	1548.5	1495.5	1434.5	1376.5	1318.5	1262.4	1244.5	1231.4	1237.4
7.5°	1656.5	1615.5	1536.5	1435.5	1319.5	1192.4	1103.4	1007.4	970.4	950.3	953.4
10°	1702.5	1646.6	1526.5	1349.4	1161.4	988.3	861.3	757.3	717.2	700.3	700.3
12.5°	1753.6	1684.6	1508.5	1242.4	988.3	781.3	657.2	609.2	603.2	603.2	603.2
15°	1814.6	1730.6	1477.5	1116.3	807.3	618.2	574.2	576.2	582.2	586.2	586.2
17.5°	1877.6	1779.6	1428.4	975.3	647.2	556.2	557.2	560.2	565.2	569.2	569.2
20°	1945.7	1828.6	1363.5	825.2	555.1	538.2	541.2	544.2	548.2	550.2	551.1
22.5°	2018.6	1874.6	1286.5	678.2	524.2	523.2	524.2	527.2	532.2	532.2	534.1
25°	2096.7	1925.7	1198.4	571.2	508.2	508.2	510.1	512.2	516.2	516.2	517.2
27.5°	2176.7	1972.6	1105.4	515.2	494.2	493.1	493.1	496.2	498.2	499.2	500.2
30°	2264.7	2027.7	1012.3	503.2	483.2	478.2	475.2	477.1	479.2	480.1	482.2
32.5°	2354.8	2080.6	929.3	508.2	472.1	463.2	453.2	451.1	451.1	455.2	458.2
35°	2454.8	2138.7	865.3	525.2	466.2	441.2	425.2	416.2	417.2	423.1	426.1
37.5°	2574.9	2208.8	818.3	540.2	462.2	416.2	390.1	379.1	372.1	379.1	377.1
40°	2731.9	2311.8	784.2	552.2	457.2	387.1	352.1	334.2	321.1	325.1	323.1
42.5°	2963.0	2473.8	771.2	553.2	446.2	353.1	313.1	289.0	270.1	271.1	267.1
45°	3287.1	2729.9	838.2	540.2	422.1	316.1	272.1	240.1	228.1	225.1	221.1
47.5°	3731.2	3103.1	993.3	513.2	387.1	280.1	232.1	205.1	196.1	191.1	188.1
50°	4326.4	3582.2	1165.4	483.2	352.1	246.1	199.1	182.0	176.1	171.1	170.0
52.5°	5016.7	4068.3	1306.5	453.2	317.1	216.1	178.0	168.1	163.1	159.1	158.1
55°	5649.9	4403.5	1298.5	421.2	283.1	192.1	163.1	157.0	151.1	147.1	145.0
57.5°	6044.0	4450.4	1070.4	386.1	244.1	173.0	149.0	145.0	138.1	133.0	132.0
60°	6225.0	4182.4	750.3	340.1	205.1	155.1	134.1	132.0	123.0	116.0	114.1
62.5°	6258.1	3684.3	500.2	283.1	171.1	138.1	119.0	116.0	104.0	92.0	86.0
65°	6124.1	2972.0	346.1	221.1	146.1	120.0	102.0	96.0	83.0	71.0	67.0
67.5°	5699.9	2086.7	241.1	159.1	124.0	95.0	81.1	79.0	69.0	59.0	56.1
70°	4922.7	1189.4	161.0	119.0	98.0	65.0	64.1	66.0	56.1	48.0	44.0
72.5°	3774.3	544.2	100.0	87.0	67.0	44.0	51.0	52.0	43.0	36.0	32.0
75°	2221.8	233.1	63.0	56.1	34.0	29.0	37.0	38.0	29.0	23.0	20.0
77.5°	756.2	88.0	40.0	33.0	17.0	16.0	24.0	24.0	16.0	9.0	7.0
80°	172.1	33.0	20.0	13.0	8.0	7.0	8.0	7.0	4.0	1.0	0.0
82.5°	49.0	13.0	8.0	5.0	3.0	3.0	1.0	0.0	0.0	0.0	0.0
85°	14.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	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)