

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: P965520

Luminaire Tested: **NAV-SB4A-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4A-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14877.9 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

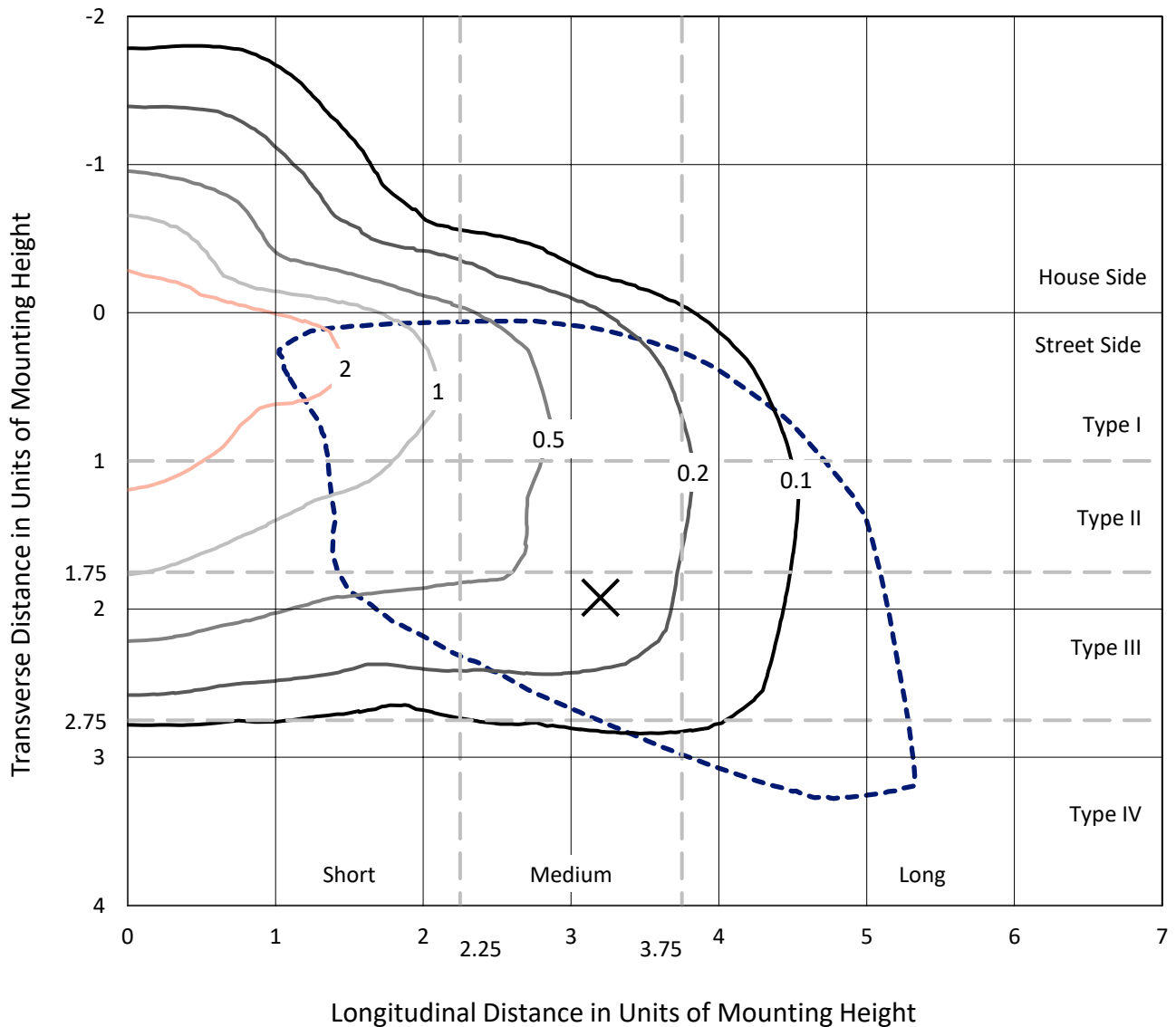
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

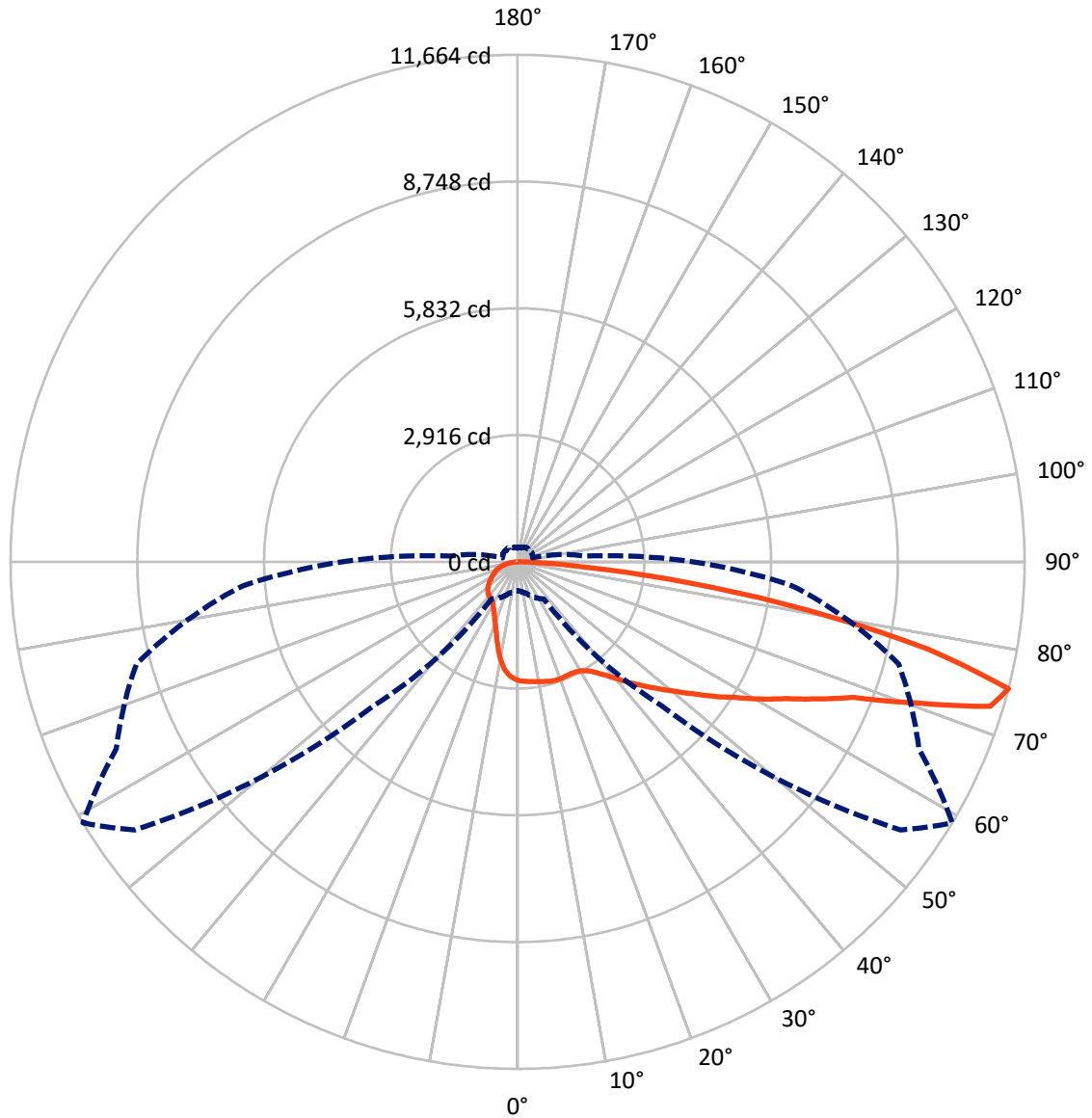
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2790.4	0.0	2790.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	12087.4	0.0	12087.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	14877.9	0.0	14877.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.9	1.6
10°-20°	625.9	4.2
20°-30°	950.7	6.4
30°-40°	1413.1	9.5
40°-50°	2101.6	14.1
50°-60°	2852.6	19.2
60°-70°	3482.6	23.4
70°-80°	2733.1	18.4
80°-90°	473.4	3.2
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°	14877.9	100.0
0°-180°	14877.9	100.0

**Coefficient of Utilization**

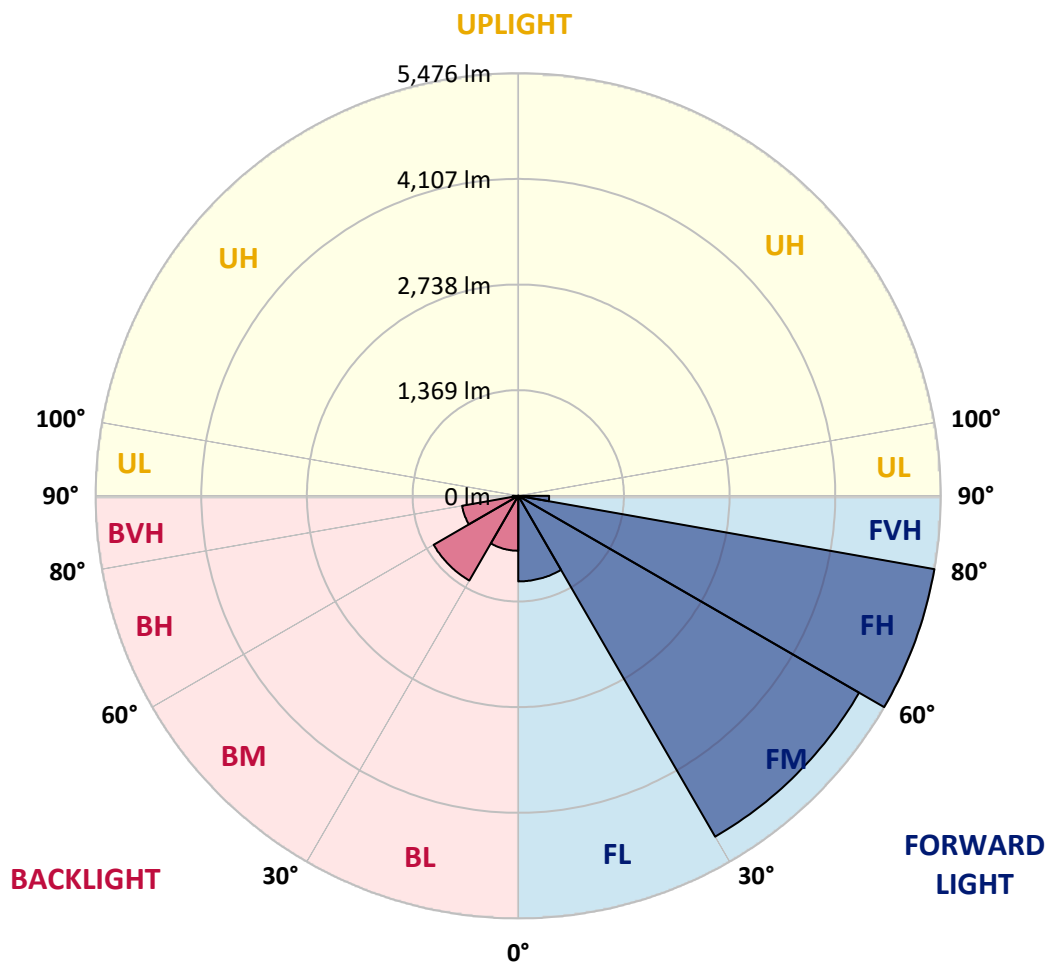


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.3	7.5			
FM (30°-60°)	5100.7	34.3			
FH (60°-80°)	5476.4	36.8			G3/7500
FVH (80°-90°)	401.0	2.7			G3/500
BL (0°-30°)	712.1	4.8	B2/1000		
BM (30°-60°)	1266.6	8.5	B2/2500		
BH (60°-80°)	739.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	72.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8
2.5°	2754.0	2744.4	2754.0	2750.0	2748.4	2745.3	2746.0	2751.6	2748.4	2752.4	2738.8
5°	2735.6	2730.0	2739.6	2737.2	2747.6	2749.3	2759.6	2766.1	2770.1	2770.8	2760.4
7.5°	2705.2	2699.5	2713.2	2724.3	2746.8	2753.3	2774.8	2785.2	2790.9	2800.4	2785.2
10°	2594.0	2591.5	2625.1	2667.6	2720.4	2753.3	2786.1	2803.7	2812.4	2838.0	2820.4
12.5°	2397.1	2400.2	2444.3	2525.9	2631.6	2737.2	2798.9	2824.5	2838.0	2870.1	2862.1
15°	2209.0	2208.2	2256.2	2343.5	2491.5	2666.7	2805.2	2849.3	2872.5	2919.7	2913.3
17.5°	2100.1	2096.9	2130.6	2197.0	2334.6	2558.7	2789.2	2862.8	2912.4	2971.7	2966.1
20°	2080.1	2073.7	2091.3	2124.1	2221.8	2440.3	2747.6	2862.8	2944.5	3021.3	3018.1
22.5°	2152.9	2142.6	2135.4	2131.4	2174.5	2342.6	2700.4	2853.3	2991.7	3092.5	3087.0
25°	2299.4	2283.4	2246.6	2210.6	2197.8	2298.6	2658.7	2850.8	3062.2	3188.6	3167.8
27.5°	2536.4	2516.3	2441.9	2355.4	2277.8	2321.0	2640.4	2865.3	3139.8	3290.2	3248.6
30°	2830.0	2808.4	2714.8	2582.0	2442.7	2404.2	2663.6	2907.7	3239.0	3425.6	3343.9
32.5°	3093.3	3069.4	2989.3	2854.0	2665.9	2548.4	2737.2	2988.5	3395.1	3613.6	3487.2
35°	3327.0	3299.1	3227.0	3102.2	2939.7	2750.8	2870.1	3131.8	3616.8	3919.3	3681.6
37.5°	3555.9	3523.1	3444.7	3312.7	3199.0	3020.6	3053.4	3315.9	3911.3	4290.6	3939.4
40°	3812.1	3764.8	3669.6	3539.1	3428.7	3336.7	3294.2	3541.6	4210.7	4705.3	4261.0
42.5°	4060.2	4015.3	3901.8	3790.4	3652.0	3625.6	3573.6	3805.7	4538.0	5160.7	4587.6
45°	4327.5	4273.8	4136.2	3995.3	3908.1	3817.7	3844.1	4069.8	4858.9	5624.9	4930.1
47.5°	4578.1	4518.0	4355.5	4198.6	4150.6	3979.4	4092.2	4360.3	5192.6	6095.5	5269.5
50°	4713.3	4654.0	4518.8	4377.2	4339.5	4178.6	4361.1	4679.6	5542.5	6564.5	5595.3
52.5°	4826.1	4762.0	4585.2	4506.8	4495.5	4395.5	4692.4	5044.6	5892.2	6979.0	5909.8
55°	4946.1	4874.9	4649.2	4578.8	4630.0	4638.8	5085.4	5458.4	6261.9	7383.3	6206.7
57.5°	5084.6	4994.2	4710.9	4639.7	4761.3	4923.8	5536.8	5887.4	6625.3	7757.8	6470.8
60°	5215.1	5123.9	4829.3	4736.5	4903.0	5254.4	6054.7	6406.9	7036.7	8091.6	6720.5
62.5°	5240.7	5165.5	4923.8	4923.0	5095.1	5640.1	6667.7	6931.0	7396.1	8421.3	6944.7
65°	4797.3	4750.1	4606.9	4915.8	5370.4	6195.5	7350.5	7601.7	7853.0	8709.4	7141.6
67.5°	3651.3	3657.6	3647.2	4243.5	5147.9	6993.5	8338.9	8319.6	8417.3	9032.8	7368.0
70°	1669.5	1707.1	1952.0	2929.2	4124.2	7085.5	9973.1	9724.3	9125.6	9451.3	7564.1
72.5°	902.0	930.8	1030.8	1419.0	2479.5	6299.5	11194.5	11371.3	10067.7	9733.1	7348.8
75°	661.8	677.9	747.5	902.0	1041.3	4682.1	10756.8	11664.3	10185.3	9076.0	6346.0
77.5°	495.4	502.7	559.4	714.7	533.0	2468.3	8594.9	9660.2	8719.1	7456.9	4687.6
80°	359.4	367.4	409.8	536.3	373.7	902.8	5901.7	6780.6	5971.4	4753.3	2336.2
82.5°	248.2	251.3	269.7	365.0	261.0	350.5	3348.7	3976.2	3333.5	1668.0	630.7
85°	149.6	153.6	161.6	212.9	148.1	166.5	1445.5	1495.1	996.4	398.6	196.1
87.5°	61.6	65.6	72.1	89.7	58.4	46.4	238.5	299.3	186.4	116.8	60.8
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°	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8	2730.8
2.5°	2734.8	2729.2	2714.0	2693.2	2674.0	2649.9	2639.6	2630.8	2622.8	2607.5	2600.3
5°	2751.6	2736.4	2695.5	2642.8	2582.7	2517.1	2453.0	2409.1	2371.4	2343.5	2320.2
7.5°	2777.2	2748.4	2674.0	2565.9	2428.2	2287.4	2160.2	2069.7	2001.7	1976.9	1933.7
10°	2803.7	2769.2	2639.6	2449.0	2211.3	1994.4	1825.6	1732.8	1678.3	1660.7	1633.5
12.5°	2834.8	2784.4	2586.0	2286.6	1968.8	1731.1	1583.9	1529.5	1501.4	1491.9	1494.2
15°	2880.5	2797.2	2505.1	2083.3	1737.6	1539.0	1443.8	1406.2	1391.8	1391.0	1394.2
17.5°	2914.9	2799.6	2379.4	1865.6	1559.8	1423.0	1344.6	1330.1	1339.8	1354.2	1359.8
20°	2953.3	2778.1	2214.6	1667.2	1435.0	1321.4	1288.5	1298.2	1321.4	1342.2	1349.4
22.5°	2980.5	2738.8	2015.3	1512.7	1327.0	1263.0	1261.4	1281.4	1294.2	1304.6	1310.2
25°	3004.5	2672.4	1804.0	1383.0	1238.1	1227.7	1245.4	1238.9	1230.1	1238.9	1244.6
27.5°	3022.1	2567.5	1615.1	1269.4	1175.7	1203.8	1193.3	1179.0	1178.1	1183.0	1190.9
30°	3016.6	2427.5	1459.8	1161.3	1131.7	1158.9	1134.1	1131.7	1129.3	1131.7	1140.5
32.5°	3016.6	2268.2	1340.6	1086.9	1103.7	1093.3	1090.9	1085.3	1075.6	1074.9	1085.3
35°	3033.4	2108.9	1238.1	1046.8	1080.5	1055.6	1057.3	1043.7	1023.7	1014.0	1023.7
37.5°	3067.7	1980.9	1136.5	1027.7	1039.7	1038.8	1032.5	1009.2	974.1	943.6	954.1
40°	3151.0	1943.3	1066.8	1018.8	1020.5	1030.0	1013.2	968.4	888.4	838.8	845.2
42.5°	3281.4	2006.4	1051.6	997.2	1007.7	1017.2	984.4	880.4	823.6	794.0	794.0
45°	3447.1	2116.9	1084.4	966.1	977.2	994.0	896.4	846.8	821.1	821.9	825.9
47.5°	3656.8	2233.0	1145.3	938.8	933.2	942.8	837.9	807.6	772.3	781.2	803.6
50°	3899.3	2350.6	1202.9	902.0	884.4	853.2	800.3	771.5	726.7	705.9	711.6
52.5°	4161.8	2464.3	1226.1	857.2	831.6	795.5	774.7	739.5	685.1	650.7	649.8
55°	4410.8	2567.5	1200.5	803.6	778.7	750.7	747.5	725.9	667.5	619.5	619.5
57.5°	4646.0	2653.9	1136.5	749.2	725.1	708.3	729.9	719.6	645.9	584.2	581.1
60°	4845.4	2713.2	1043.7	693.9	677.1	668.3	701.1	697.9	615.5	546.6	544.3
62.5°	5003.8	2736.4	941.3	641.0	637.0	621.0	661.1	661.1	577.1	509.8	507.4
65°	5127.9	2714.0	837.1	589.1	597.1	573.1	612.2	607.5	536.3	477.0	473.9
67.5°	5237.5	2640.4	721.9	537.8	556.3	525.8	561.1	549.8	491.4	444.2	441.0
70°	5286.3	2469.1	590.7	486.6	509.0	479.4	509.8	489.0	441.0	409.0	402.6
72.5°	4894.2	2052.2	465.0	433.0	452.2	428.1	454.6	430.6	386.5	372.2	360.2
75°	4049.0	1539.9	357.7	374.5	389.0	370.5	388.2	370.5	330.6	340.9	311.3
77.5°	2940.5	1039.7	273.7	312.9	319.4	309.8	324.9	304.9	269.0	266.5	254.5
80°	1462.3	609.1	214.5	247.3	244.9	238.5	256.1	246.5	216.1	228.9	226.5
82.5°	423.4	261.0	156.1	173.6	168.9	170.5	183.3	188.1	281.8	279.3	285.8
85°	132.8	102.4	93.7	96.9	92.0	94.4	108.0	214.5	198.4	116.0	125.7
87.5°	34.4	35.3	23.2	24.8	25.6	30.4	34.4	130.5	62.4	40.8	43.3
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)