

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: P885021

Luminaire Tested: **NAV-SB6A-835-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-835-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

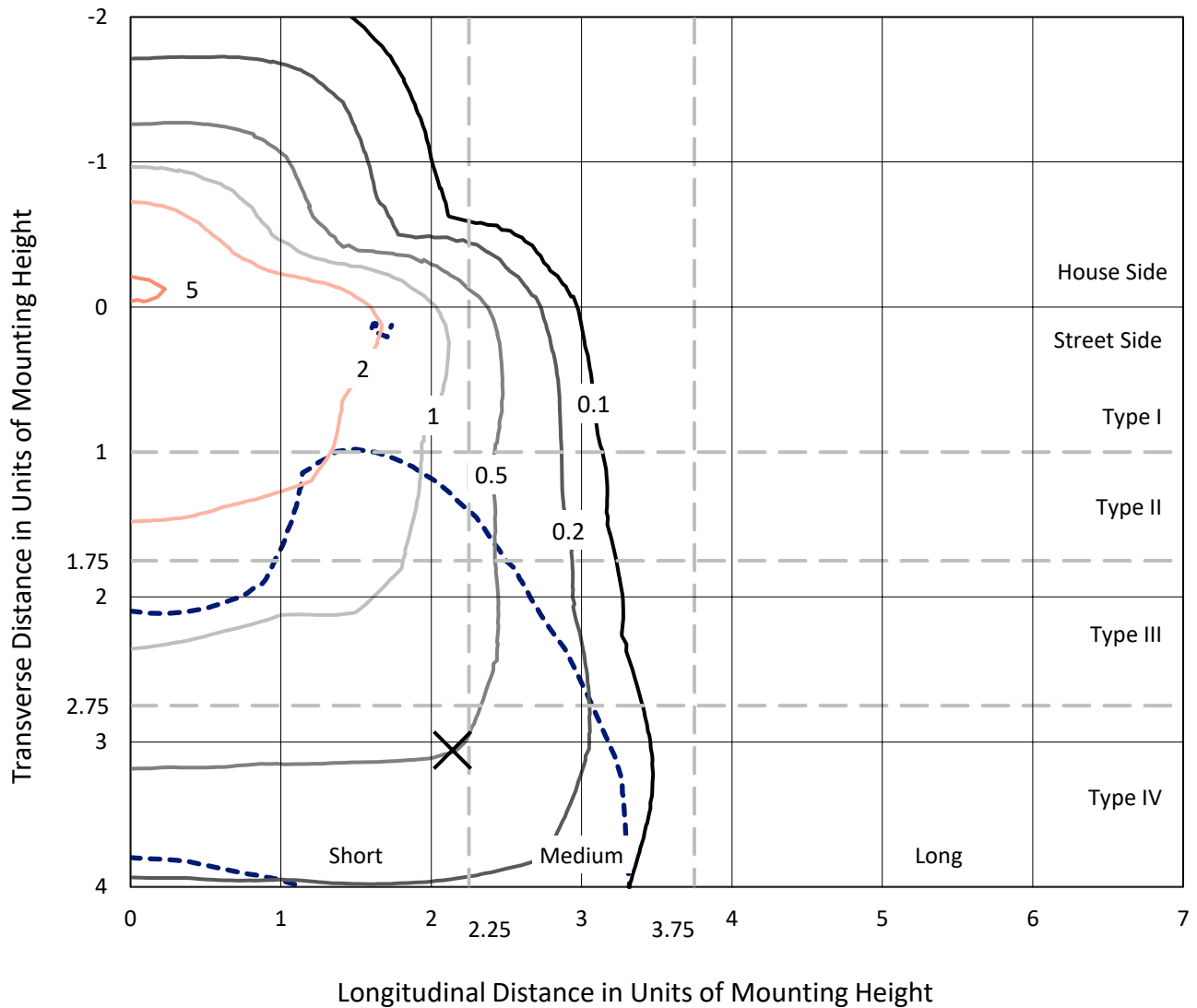
Lumens per Lamp: N/A  
Luminaire Lumens: 22706 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

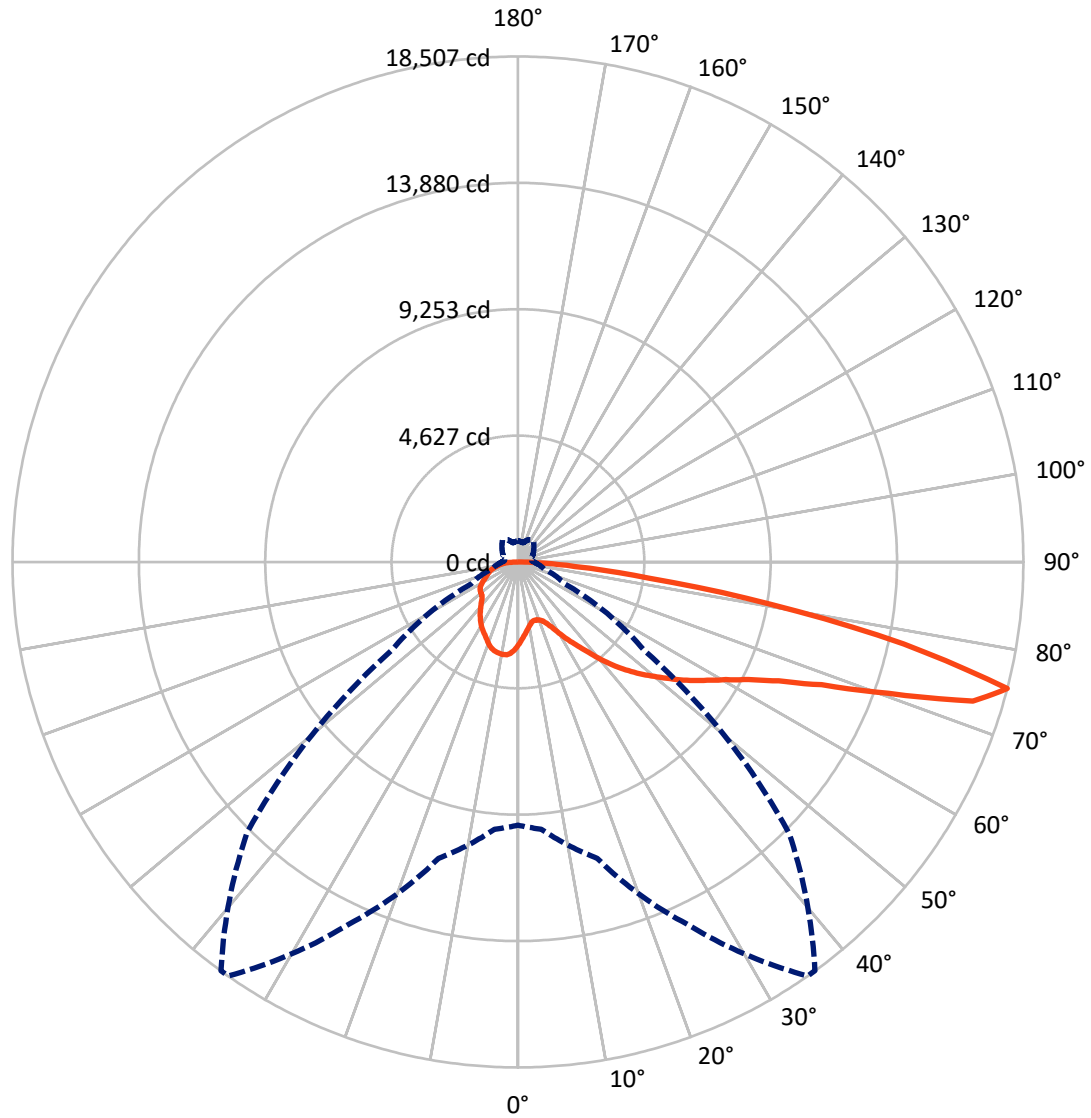
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5403.5	0.0	5403.5
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	17302.5	0.0	17302.5
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	22706.0	0.0	22706.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.5	1.3
10°-20°	826.3	3.6
20°-30°	1387.6	6.1
30°-40°	2156.5	9.5
40°-50°	3200.9	14.1
50°-60°	4419.0	19.5
60°-70°	5361.3	23.6
70°-80°	4430.7	19.5
80°-90°	637.3	2.8
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°	22706.0	100.0
0°-180°	22706.0	100.0

**Coefficient of Utilization**



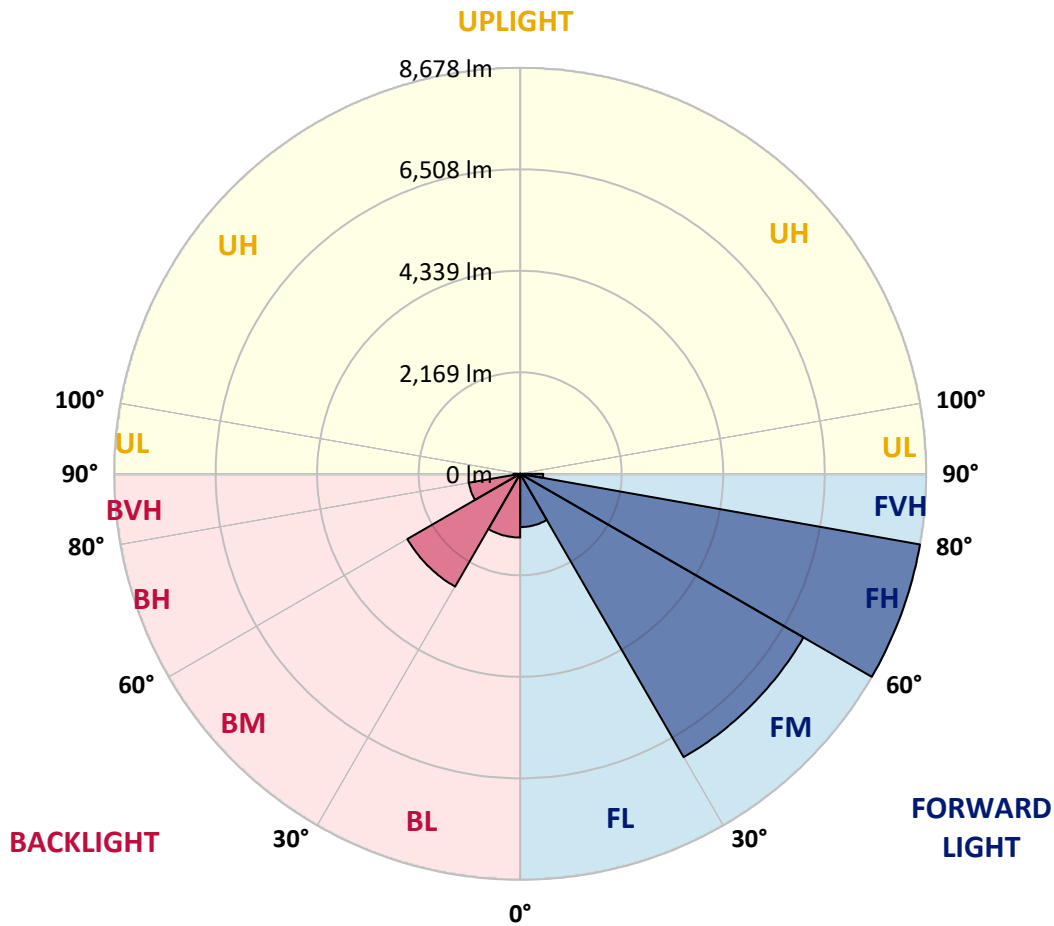
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.7	5.0			
FM (30°-60°)	6992.2	30.8			
FH (60°-80°)	8677.9	38.2			G4/12000
FVH (80°-90°)	493.8	2.2			G3/500
BL (0°-30°)	1361.7	6.0	B3/2500		
BM (30°-60°)	2784.2	12.3	B3/5000		
BH (60°-80°)	1114.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	143.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7
2.5°	2790.1	2807.2	2814.6	2810.9	2829.3	2826.9	2852.7	2884.6	2928.8	2971.7	3034.3
5°	2575.2	2593.7	2609.6	2624.3	2659.9	2671.0	2711.5	2772.9	2853.9	2936.1	3039.2
7.5°	2375.2	2391.1	2415.7	2442.7	2502.8	2513.9	2581.4	2677.1	2790.1	2910.3	3052.7
10°	2211.9	2227.9	2253.6	2284.3	2359.2	2372.7	2458.6	2586.3	2733.6	2885.8	3067.5
12.5°	2141.9	2146.9	2161.6	2192.3	2257.3	2265.9	2360.4	2506.5	2678.4	2867.4	3089.6
15°	2138.3	2148.1	2149.3	2165.3	2219.3	2223.0	2310.1	2455.0	2644.0	2863.7	3122.7
17.5°	2175.1	2182.5	2171.4	2181.2	2226.6	2232.8	2301.5	2430.4	2632.9	2879.7	3179.2
20°	2273.3	2279.4	2246.3	2232.8	2265.9	2270.8	2338.3	2446.4	2644.0	2912.8	3256.5
22.5°	2482.0	2485.6	2404.6	2349.4	2351.8	2354.3	2413.2	2511.4	2686.9	2972.9	3354.7
25°	2807.2	2804.8	2675.9	2569.1	2507.7	2494.2	2533.5	2617.0	2759.4	3052.7	3481.1
27.5°	3187.8	3169.3	3040.5	2880.9	2747.1	2727.5	2718.9	2754.5	2862.5	3158.3	3635.8
30°	3617.4	3600.2	3461.5	3252.8	3067.5	3035.5	2954.5	2936.1	3015.9	3301.9	3850.6
32.5°	4088.7	4077.7	3912.0	3659.1	3411.2	3374.3	3238.1	3189.0	3251.6	3519.2	4150.1
35°	4484.0	4474.1	4336.7	4076.4	3773.3	3727.8	3589.1	3533.9	3565.8	3797.8	4541.7
37.5°	4841.2	4836.3	4718.4	4513.4	4200.4	4145.2	3989.3	3970.9	3964.7	4164.8	5016.7
40°	5172.6	5160.3	5037.6	4929.5	4697.6	4647.2	4509.7	4493.8	4447.1	4616.5	5554.3
42.5°	5539.6	5507.7	5329.7	5279.4	5216.8	5175.0	5092.8	5095.3	4992.1	5125.9	6123.9
45°	5839.1	5820.7	5637.8	5608.3	5675.8	5658.7	5729.9	5748.3	5548.2	5659.9	6715.5
47.5°	6160.7	6143.5	5988.9	5968.0	6150.9	6155.8	6407.4	6413.6	6090.7	6214.7	7308.4
50°	6557.2	6532.6	6379.2	6405.0	6610.0	6628.4	7088.7	7046.9	6590.3	6778.1	7896.4
52.5°	6818.6	6833.4	6800.2	6842.0	7121.8	7139.0	7758.9	7652.1	7085.0	7334.2	8473.3
55°	7011.3	7040.8	7143.9	7239.7	7661.9	7679.1	8391.0	8227.8	7495.0	7849.7	9015.8
57.5°	7259.3	7217.6	7410.3	7596.8	8175.0	8220.4	9006.0	8782.6	7858.3	8294.1	9387.7
60°	7615.3	7585.8	7735.6	8011.7	8749.4	8821.9	9656.6	9282.2	8124.7	8646.3	9460.2
62.5°	8337.0	8263.4	8286.7	8531.0	9473.7	9569.4	10390.6	9717.9	8257.2	8783.8	9072.3
65°	9416.0	9289.5	9171.7	9341.1	10493.7	10588.2	11219.1	10060.4	8208.1	8517.5	8042.4
67.5°	10774.8	10649.6	10504.7	10664.3	11996.1	12071.0	12241.6	10253.1	7821.5	7491.3	6222.1
70°	11895.5	11848.8	12021.9	12678.6	14395.8	14398.3	13552.6	10093.5	6762.2	5311.3	3600.2
72.5°	11746.9	11718.7	12630.7	14661.0	17420.3	17355.3	14793.5	8885.7	4555.2	2396.0	1349.0
75°	9636.9	9819.8	11232.6	14625.4	18506.7	18498.1	14033.7	5648.8	1884.2	993.0	697.2
77.5°	5167.7	5457.4	7292.4	10798.1	14447.4	14664.7	9866.5	1976.2	808.9	635.8	482.4
80°	1685.3	1938.2	2906.7	5497.9	9387.7	9347.2	4228.7	775.8	553.6	450.5	333.9
82.5°	715.6	745.1	1298.7	2596.1	4817.8	4743.0	1346.5	445.6	389.1	308.1	206.2
85°	279.9	313.0	573.2	1200.5	2086.7	2041.3	486.1	220.9	249.2	201.3	122.7
87.5°	92.1	111.7	205.0	411.2	649.3	626.0	119.1	76.1	108.0	92.1	44.2
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°	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7	3025.7
2.5°	3051.5	3071.1	3094.5	3128.8	3158.3	3182.8	3208.6	3224.6	3230.7	3249.1	3247.9
5°	3073.6	3116.6	3174.3	3230.7	3286.0	3319.1	3348.6	3363.3	3376.8	3386.6	3389.1
7.5°	3110.4	3165.7	3256.5	3330.1	3376.8	3403.8	3423.4	3418.5	3423.4	3425.9	3429.6
10°	3142.3	3219.7	3327.7	3397.7	3433.3	3434.5	3429.6	3412.4	3403.8	3405.0	3407.5
12.5°	3180.4	3266.3	3382.9	3441.8	3451.7	3424.7	3403.8	3374.3	3363.3	3358.4	3355.9
15°	3231.9	3330.1	3443.1	3465.2	3440.6	3406.2	3370.6	3322.8	3298.2	3278.6	3284.7
17.5°	3294.5	3402.6	3489.7	3473.8	3421.0	3364.5	3306.8	3234.4	3184.1	3163.2	3164.4
20°	3381.7	3478.7	3525.3	3455.3	3375.6	3289.6	3191.4	3103.1	3056.4	3035.5	3033.1
22.5°	3487.3	3580.5	3559.7	3423.4	3310.5	3173.0	3050.3	2985.2	2961.9	2947.2	2949.6
25°	3613.7	3693.5	3584.2	3376.8	3203.7	3018.4	2923.8	2903.0	2891.9	2880.9	2880.9
27.5°	3778.2	3821.1	3602.6	3308.0	3036.8	2853.9	2819.5	2823.2	2819.5	2801.1	2804.8
30°	3995.4	3986.8	3619.8	3196.3	2845.3	2705.4	2707.8	2723.8	2726.2	2713.9	2720.1
32.5°	4281.4	4194.3	3628.4	3051.5	2662.4	2575.2	2577.7	2594.9	2607.2	2586.3	2596.1
35°	4627.6	4436.1	3614.9	2869.8	2521.2	2451.3	2432.9	2437.8	2441.4	2421.8	2435.3
37.5°	5031.4	4707.4	3554.8	2668.5	2404.6	2329.7	2290.5	2257.3	2237.7	2219.3	2231.6
40°	5474.5	5003.2	3444.3	2472.1	2274.5	2200.9	2141.9	2079.3	2013.1	1988.5	1999.6
42.5°	5938.5	5307.6	3310.5	2284.3	2124.8	2064.6	2002.0	1911.2	1811.8	1761.4	1767.6
45°	6419.7	5619.4	3179.2	2099.0	1971.3	1945.5	1873.1	1763.9	1655.9	1592.0	1587.1
47.5°	6891.0	5914.0	2986.4	1912.4	1827.7	1855.9	1799.5	1698.8	1578.5	1477.9	1466.8
50°	7341.5	6190.2	2671.0	1723.4	1711.1	1828.9	1774.9	1630.1	1492.6	1363.7	1352.7
52.5°	7788.3	6413.6	2267.1	1551.5	1648.5	1821.6	1743.0	1583.4	1415.3	1280.3	1265.5
55°	8167.6	6528.9	1878.0	1404.2	1557.7	1759.0	1705.0	1528.2	1306.0	1162.4	1150.1
57.5°	8383.7	6435.7	1554.0	1259.4	1432.5	1655.9	1639.9	1410.4	1175.9	1065.4	1050.7
60°	8290.4	6057.6	1288.8	1133.0	1313.4	1544.2	1527.0	1293.8	1076.5	972.2	957.4
62.5°	7776.1	5337.1	1079.0	1022.5	1205.4	1430.0	1414.1	1204.2	1000.4	899.7	883.8
65°	6740.1	4341.6	915.7	930.4	1096.1	1292.5	1315.9	1129.3	940.2	842.0	826.1
67.5°	5140.7	3144.8	788.0	850.6	989.3	1157.5	1225.0	1075.3	889.9	796.6	781.9
70°	2930.0	1786.0	680.0	773.3	894.8	1032.3	1155.1	1032.3	835.9	758.6	748.8
72.5°	1110.9	820.0	588.0	696.0	804.0	926.7	1077.7	964.8	773.3	715.6	705.8
75°	592.9	499.6	494.7	605.1	699.7	823.6	980.8	898.5	726.7	756.1	780.7
77.5°	403.8	353.5	413.7	518.0	585.5	709.5	877.6	797.9	629.7	627.2	578.1
80°	279.9	250.4	336.3	417.3	452.9	596.6	765.9	684.9	513.1	478.7	457.8
82.5°	168.2	163.3	251.6	311.8	320.4	460.3	634.6	574.5	419.8	365.8	368.2
85°	92.1	97.0	160.8	182.9	186.6	321.6	497.1	444.3	322.8	271.3	273.7
87.5°	25.8	33.1	58.9	72.4	89.6	166.9	295.8	263.9	162.0	112.9	112.9
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)