

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: P883319

Luminaire Tested: **NAV-SB3C-835-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-835-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

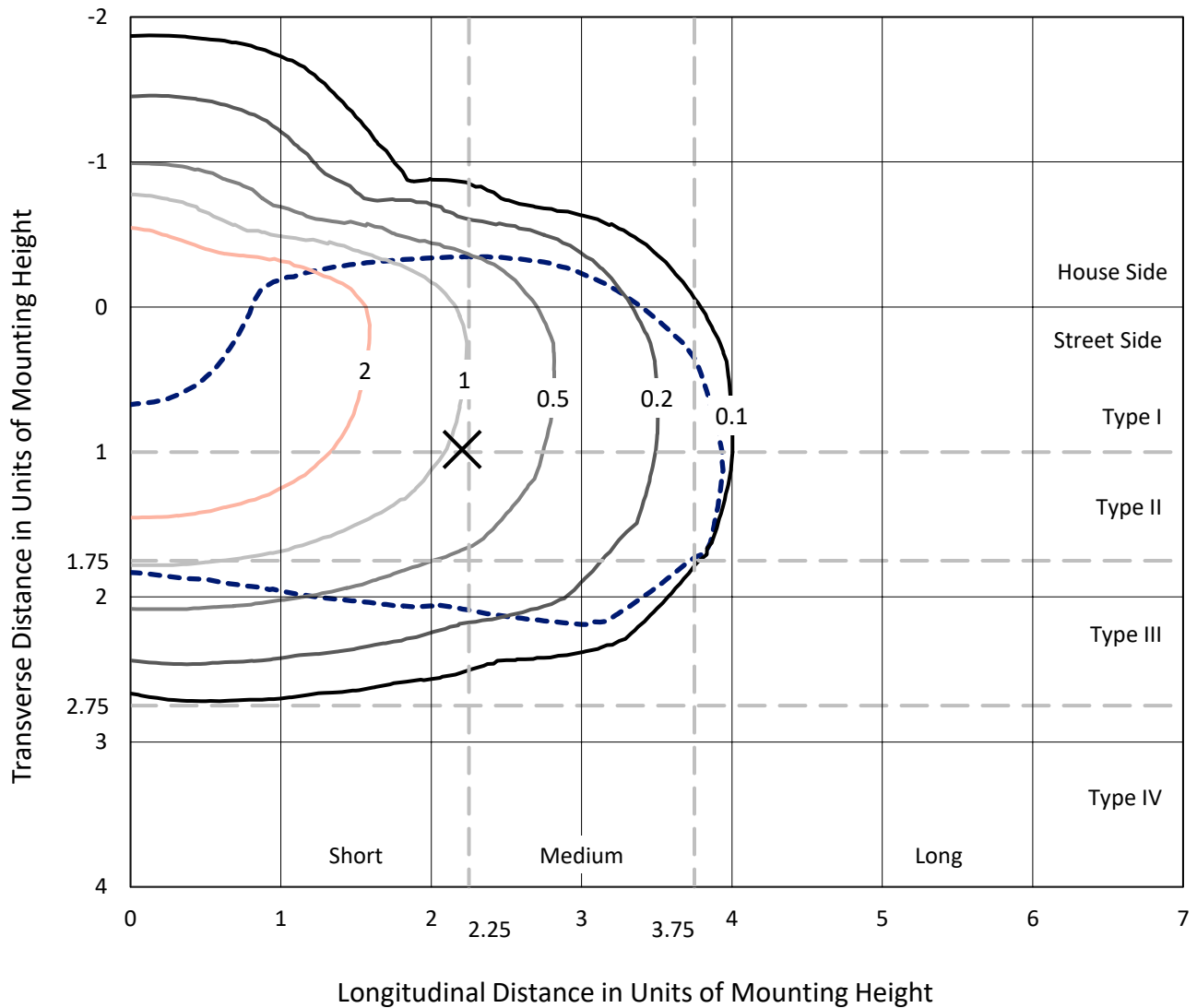
Lumens per Lamp: N/A  
Luminaire Lumens: 18966 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P883319  
 CATALOG NUMBER: NAV-SB3C-835-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

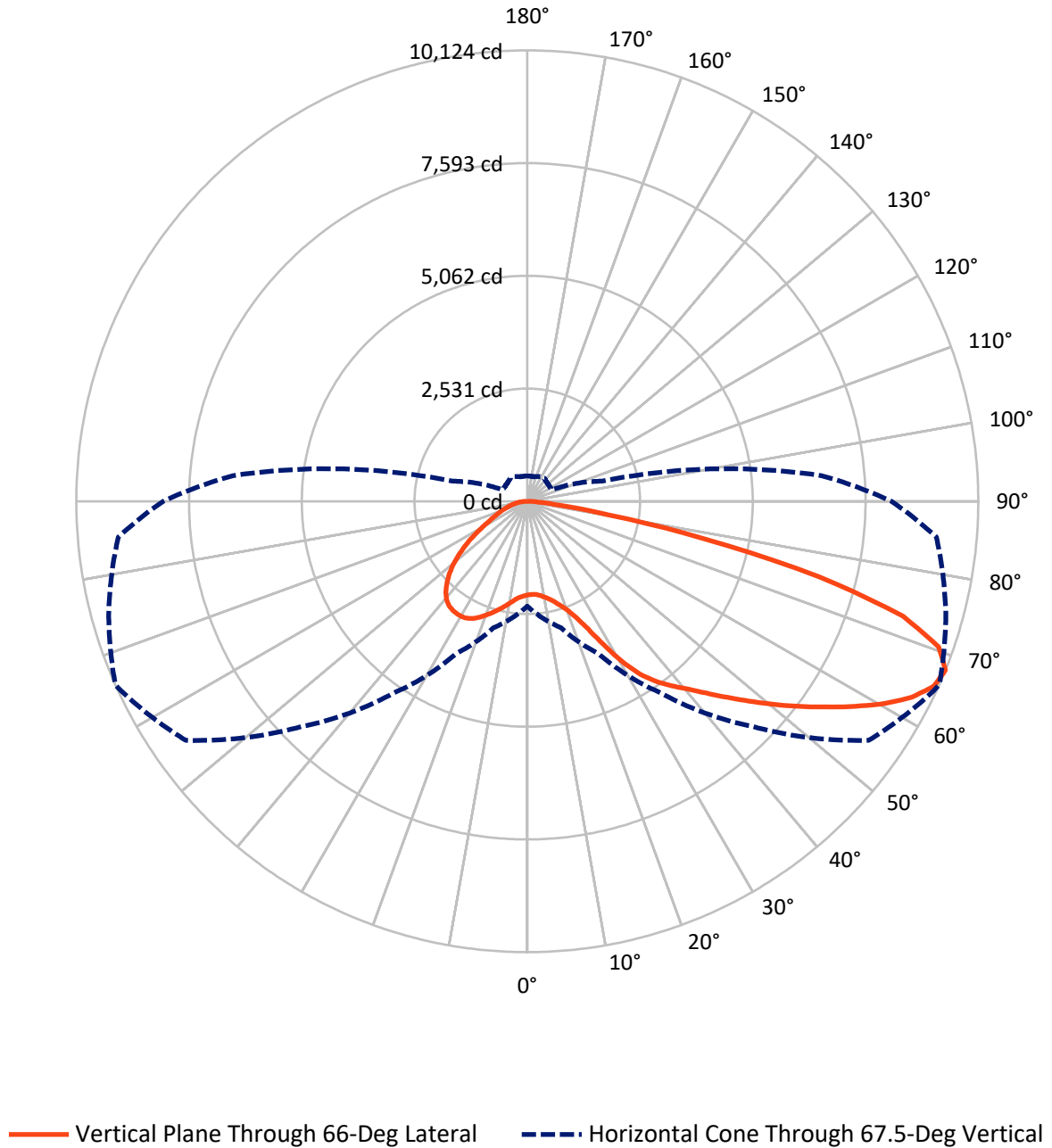
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P883319  
CATALOG NUMBER: NAV-SB3C-835-U-T3

### Luminous Intensity Polar Plot



REPORT NUMBER: P883319  
 CATALOG NUMBER: NAV-SB3C-835-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4715.8	0.0	4715.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	14250.2	0.0	14250.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	18966.0	0.0	18966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.6	1.1
10°-20°	689.1	3.6
20°-30°	1328.1	7.0
30°-40°	2328.7	12.3
40°-50°	3462.0	18.3
50°-60°	4388.4	23.1
60°-70°	4294.0	22.6
70°-80°	2048.3	10.8
80°-90°	218.9	1.2
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°	18966.0	100.0
0°-180°	18966.0	100.0

**Coefficient of Utilization**



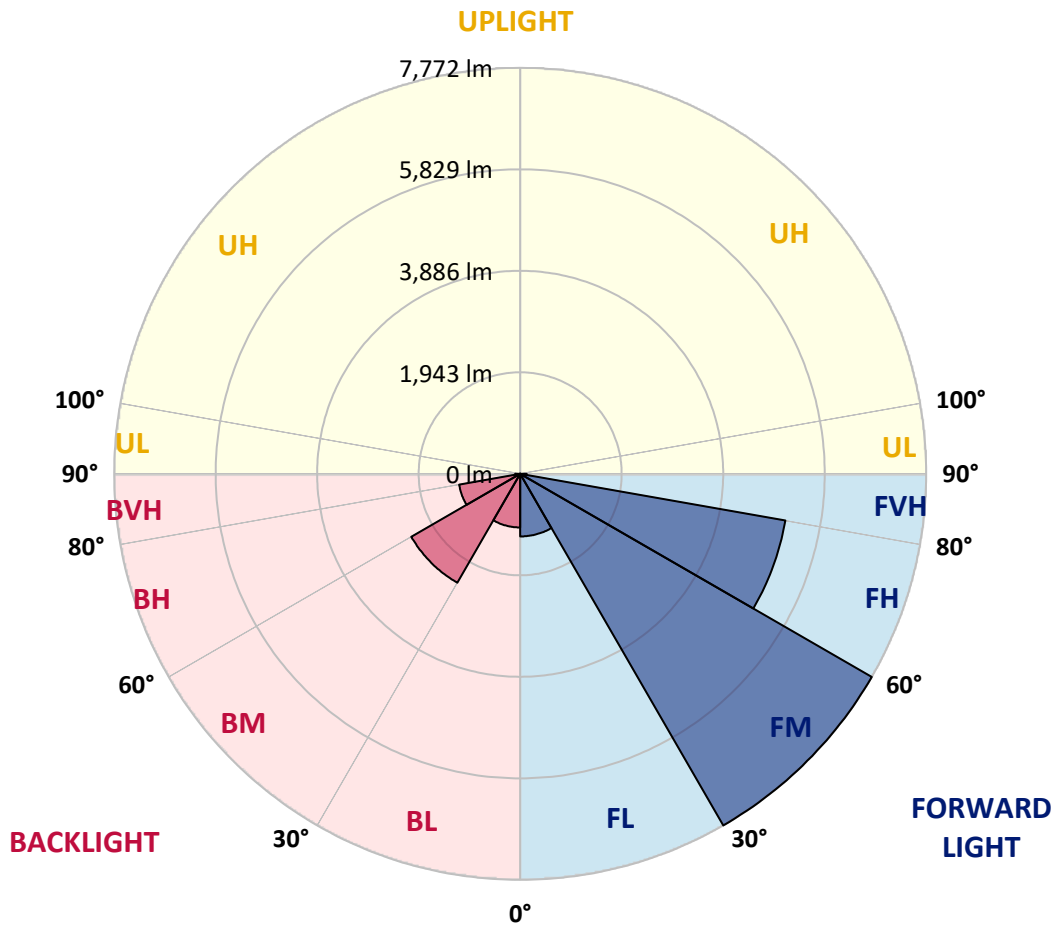
REPORT NUMBER: P883319  
 CATALOG NUMBER: NAV-SB3C-835-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.5	6.3			
FM (30°-60°)	7772.1	41.0			
FH (60°-80°)	5155.5	27.2			G3/7500
FVH (80°-90°)	124.1	0.7			G2/225
BL (0°-30°)	1027.3	5.4	B3/2500		
BM (30°-60°)	2407.0	12.7	B2/2500		
BH (60°-80°)	1186.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	94.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



REPORT NUMBER: P883319  
 CATALOG NUMBER: NAV-SB3C-835-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6
2.5°	2081.7	2093.6	2090.6	2085.6	2084.6	2086.6	2089.6	2092.6	2091.6	2096.6	2104.6
5°	2075.7	2087.6	2086.6	2086.6	2090.6	2098.6	2103.6	2108.6	2103.6	2109.6	2120.5
7.5°	2079.7	2088.6	2092.6	2096.6	2106.6	2121.5	2133.5	2144.4	2138.5	2145.4	2159.4
10°	2130.5	2137.5	2141.4	2141.4	2148.4	2165.4	2177.3	2197.2	2192.3	2203.2	2221.2
12.5°	2223.2	2230.1	2230.1	2226.1	2231.1	2242.1	2246.1	2268.0	2259.0	2277.0	2294.9
15°	2336.8	2350.7	2339.7	2332.8	2334.8	2345.7	2344.7	2361.7	2352.7	2367.6	2383.6
17.5°	2462.3	2480.3	2462.3	2461.3	2457.3	2469.3	2470.3	2485.2	2469.3	2480.3	2491.2
20°	2610.8	2635.7	2620.8	2625.7	2616.8	2621.8	2626.7	2648.7	2623.7	2631.7	2628.7
22.5°	2820.1	2849.9	2834.0	2852.9	2847.0	2843.0	2842.0	2880.8	2842.0	2845.0	2816.1
25°	3125.0	3160.9	3132.9	3158.9	3158.9	3171.8	3186.8	3236.6	3171.8	3152.9	3078.1
27.5°	3575.4	3611.3	3556.5	3572.4	3567.4	3599.3	3583.4	3706.9	3637.2	3606.3	3455.8
30°	4117.5	4181.3	4077.6	4073.6	4068.6	4119.5	4142.4	4224.1	4153.3	4122.5	3941.1
32.5°	4703.4	4770.2	4646.6	4610.7	4591.8	4622.7	4603.8	4669.5	4620.7	4572.9	4348.7
35°	5323.2	5389.0	5271.4	5201.7	5125.9	5061.1	4993.4	5010.3	4964.5	4891.7	4659.6
37.5°	5909.2	6029.7	5905.2	5830.4	5690.9	5564.4	5375.0	5296.3	5253.5	5186.7	4952.5
40°	6506.1	6574.8	6480.1	6416.4	6264.9	6066.6	5763.7	5597.3	5539.5	5474.7	5276.4
42.5°	6945.5	7011.3	6960.4	6916.6	6798.0	6567.8	6176.2	5967.9	5884.2	5811.5	5643.1
45°	7294.3	7343.1	7311.2	7327.2	7276.3	7053.1	6603.7	6365.5	6278.9	6190.2	6057.6
47.5°	7434.8	7486.6	7537.4	7632.1	7718.8	7554.4	7063.1	6796.0	6704.4	6613.7	6483.1
50°	7418.8	7471.6	7619.1	7820.4	8089.5	8034.7	7547.4	7254.4	7169.7	7066.1	6945.5
52.5°	7291.3	7351.1	7540.4	7875.2	8303.7	8394.4	8040.6	7727.7	7648.0	7524.5	7403.9
55°	6956.5	6992.3	7276.3	7750.7	8354.5	8645.5	8523.9	8232.0	8152.2	7979.9	7848.3
57.5°	6335.7	6387.5	6801.0	7414.8	8227.0	8815.9	8948.4	8762.1	8685.4	8437.2	8299.7
60°	5525.5	5608.2	6081.5	6850.8	7902.1	8814.9	9334.1	9283.3	9219.5	8887.7	8744.2
62.5°	4608.7	4704.4	5159.8	6053.6	7334.1	8564.8	9575.2	9719.7	9686.8	9303.2	9119.8
65°	3539.5	3605.3	4058.7	5022.3	6450.2	8027.7	9603.1	10017.7	10023.6	9619.1	9316.1
67.5°	2356.7	2546.0	2939.6	3768.7	5266.4	7149.8	9358.0	10066.5	10124.3	9727.7	9217.5
70°	1149.9	1399.1	1784.7	2449.4	3768.7	5803.5	8717.3	9665.9	9794.5	9410.8	8629.6
72.5°	477.3	558.0	768.3	1208.7	2163.4	3916.2	7429.8	8579.7	8817.9	8338.6	7255.4
75°	321.9	348.8	439.4	619.8	985.5	1931.2	5358.1	6397.4	6781.1	6297.8	5147.8
77.5°	248.1	265.1	319.9	433.5	585.9	730.4	2867.9	3855.4	4053.7	3752.8	2678.6
80°	195.3	208.3	239.2	315.9	415.5	390.6	977.6	1746.8	1861.4	1561.5	861.0
82.5°	169.4	174.4	171.4	214.2	276.0	228.2	320.9	644.7	711.5	516.2	281.0
85°	122.6	136.5	142.5	132.5	146.5	115.6	131.5	228.2	251.1	224.2	158.4
87.5°	49.8	73.7	90.7	85.7	53.8	32.9	40.9	66.8	76.7	83.7	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P883319  
 CATALOG NUMBER: NAV-SB3C-835-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6	2103.6
2.5°	2105.6	2112.5	2117.5	2123.5	2127.5	2133.5	2145.4	2152.4	2153.4	2158.4	2157.4
5°	2124.5	2134.5	2145.4	2161.4	2179.3	2194.3	2217.2	2233.1	2239.1	2244.1	2243.1
7.5°	2165.4	2179.3	2199.2	2227.1	2253.1	2273.0	2300.9	2319.8	2338.8	2345.7	2346.7
10°	2226.1	2246.1	2275.0	2312.8	2340.7	2366.7	2395.6	2411.5	2430.4	2438.4	2442.4
12.5°	2301.9	2322.8	2360.7	2413.5	2439.4	2457.3	2467.3	2463.3	2467.3	2474.3	2476.3
15°	2388.6	2411.5	2454.3	2511.1	2529.1	2513.1	2491.2	2471.3	2468.3	2470.3	2477.3
17.5°	2491.2	2508.2	2558.0	2605.8	2592.9	2527.1	2479.3	2447.4	2431.4	2426.4	2433.4
20°	2634.7	2634.7	2675.6	2705.5	2618.8	2507.2	2432.4	2380.6	2347.7	2333.8	2330.8
22.5°	2809.1	2793.1	2819.1	2798.1	2613.8	2451.4	2347.7	2258.0	2208.2	2188.3	2185.3
25°	3030.3	3011.4	3004.4	2874.9	2577.9	2362.7	2194.3	2085.6	2041.8	2030.8	2032.8
27.5°	3364.1	3316.3	3225.6	2916.7	2512.1	2223.2	2014.9	1914.2	1889.3	1890.3	1893.3
30°	3808.6	3712.9	3490.7	2923.7	2404.5	2025.9	1831.5	1759.8	1747.8	1752.8	1769.8
32.5°	4220.1	4129.4	3761.7	2891.8	2239.1	1832.5	1667.1	1619.3	1601.4	1607.3	1615.3
35°	4543.0	4518.1	4012.8	2847.0	2035.8	1651.2	1519.6	1478.8	1443.9	1435.9	1441.9
37.5°	4847.9	4837.9	4201.2	2784.2	1834.5	1522.6	1401.1	1347.2	1296.4	1268.5	1269.5
40°	5182.7	5172.8	4324.7	2687.5	1656.2	1411.0	1294.4	1223.7	1160.9	1110.1	1115.1
42.5°	5559.4	5500.6	4383.5	2549.0	1504.7	1316.4	1207.7	1112.1	1029.4	982.5	985.5
45°	5970.9	5838.4	4382.5	2372.6	1377.1	1229.7	1115.1	979.5	902.8	859.0	857.0
47.5°	6407.4	6161.3	4328.7	2177.3	1253.6	1134.0	971.6	867.9	817.1	790.2	784.2
50°	6857.8	6463.2	4237.1	1953.1	1127.0	1025.4	881.9	811.1	772.3	747.4	738.4
52.5°	7281.3	6737.2	4126.4	1699.0	998.5	919.8	842.0	787.2	746.4	718.5	706.5
55°	7674.9	6973.4	3970.0	1438.9	893.8	849.0	823.1	777.3	730.4	697.5	684.6
57.5°	8024.7	7126.9	3699.9	1194.8	819.1	800.2	803.2	760.3	706.5	678.6	660.7
60°	8315.7	7239.5	3300.4	968.6	758.3	752.3	772.3	728.4	665.7	633.8	619.8
62.5°	8490.1	7237.5	2810.1	793.2	706.5	708.5	731.4	688.6	624.8	594.9	585.9
65°	8475.1	7060.1	2272.0	678.6	656.7	658.7	688.6	644.7	590.9	573.0	572.0
67.5°	8175.2	6627.6	1742.9	603.9	601.9	610.8	645.7	614.8	570.0	568.0	571.0
70°	7363.0	5729.8	1255.6	544.1	545.1	558.0	603.9	595.9	559.0	563.0	562.0
72.5°	5904.2	4368.6	843.0	481.3	482.3	503.2	564.0	581.0	548.1	600.9	608.9
75°	3932.1	2724.4	542.1	414.5	415.5	442.4	529.1	552.1	518.2	598.9	603.9
77.5°	1889.3	1224.7	392.6	348.8	348.8	373.7	457.4	494.3	441.4	465.4	426.5
80°	652.7	460.4	308.9	281.0	275.0	292.0	385.6	428.5	380.7	350.8	328.8
82.5°	257.1	239.2	248.1	218.2	198.3	209.3	299.9	353.8	280.0	253.1	252.1
85°	147.5	155.5	175.4	144.5	114.6	128.5	220.2	254.1	211.3	186.3	190.3
87.5°	39.9	54.8	80.7	74.7	51.8	54.8	104.6	140.5	121.6	93.7	96.7
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)