

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: P885010

Luminaire Tested: **NAV-SB6A-830-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-830-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

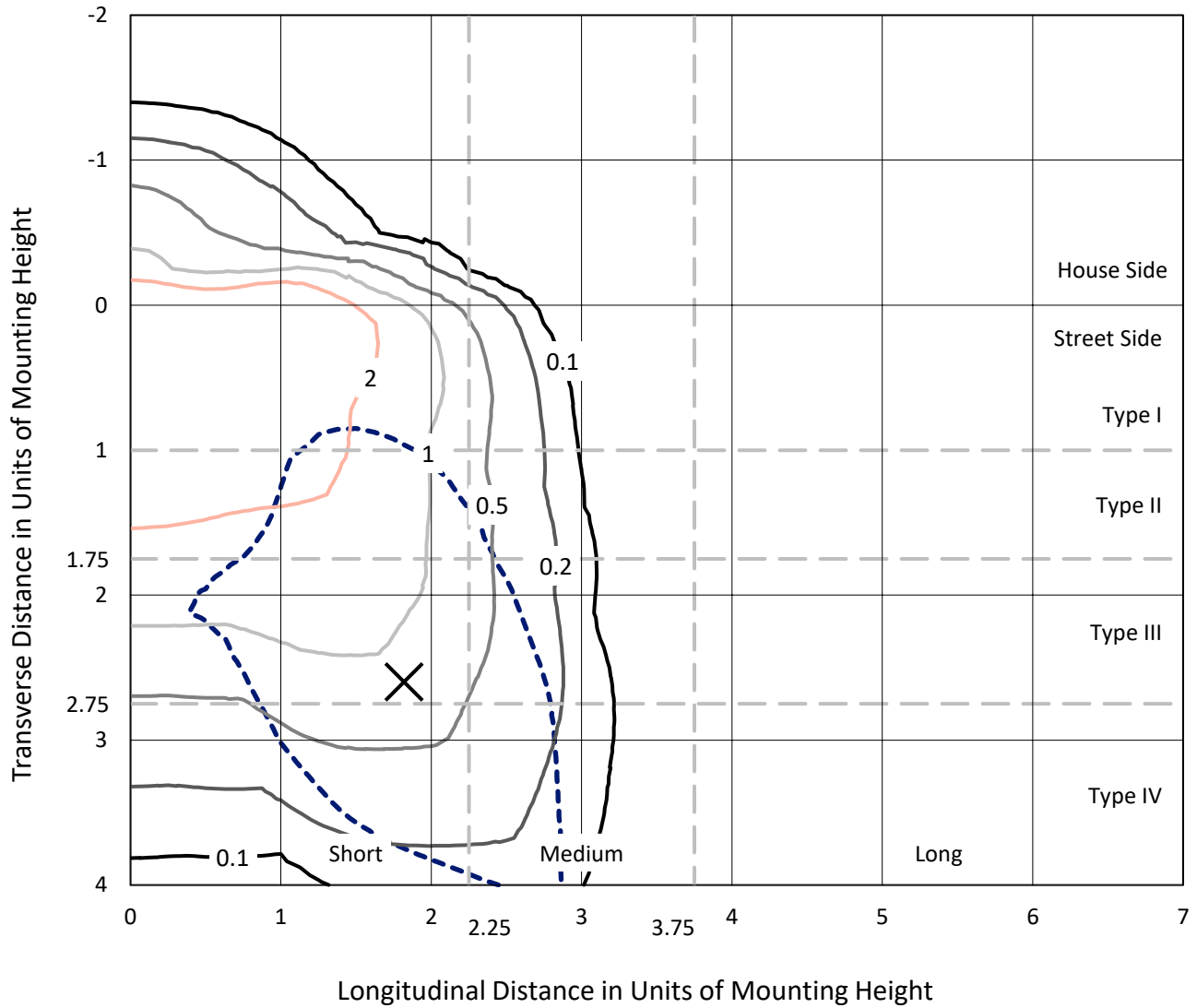
Lumens per Lamp: N/A  
Luminaire Lumens: 18038 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

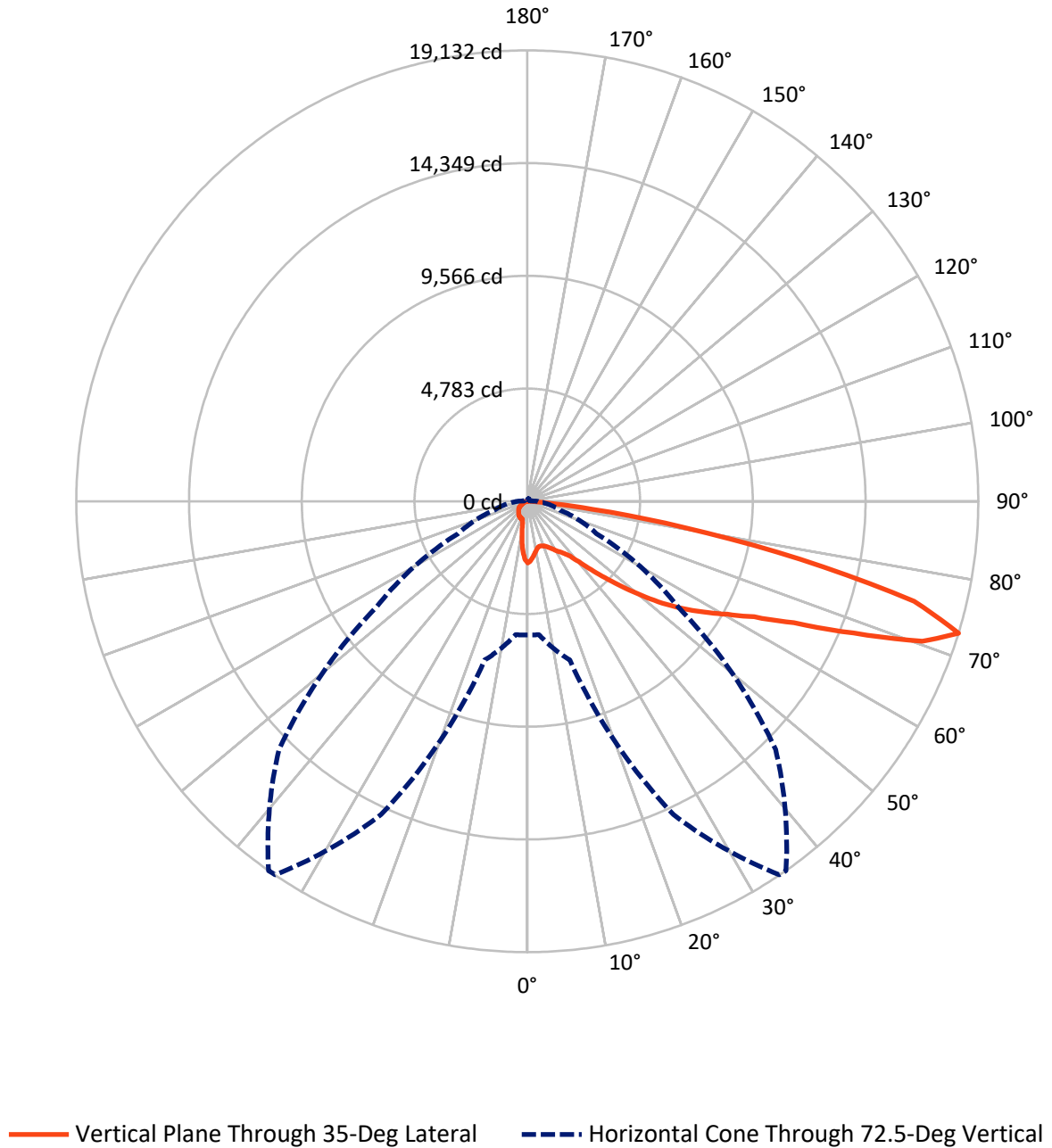
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2030.1	0.0	2030.1
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	16007.9	0.0	16007.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	18038.0	0.0	18038.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.8	1.2
10°-20°	502.6	2.8
20°-30°	816.4	4.5
30°-40°	1362.1	7.6
40°-50°	2577.2	14.3
50°-60°	4095.2	22.7
60°-70°	5066.0	28.1
70°-80°	3149.1	17.5
80°-90°	254.5	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°	18038.0	100.0
0°-180°	18038.0	100.0

**Coefficient of Utilization**



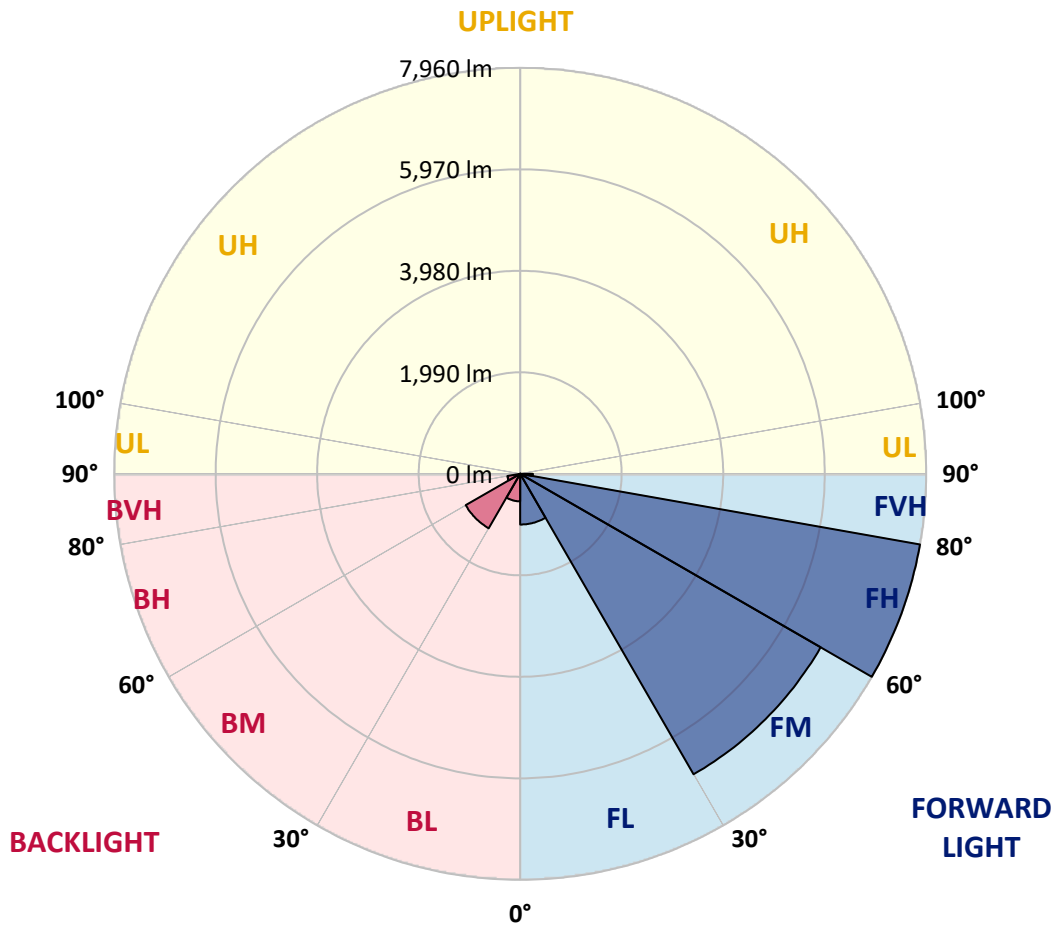
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.4	5.5			
FM (30°-60°)	6802.1	37.7			
FH (60°-80°)	7960.4	44.1			G4/12000
FVH (80°-90°)	251.0	1.4			G3/500
BL (0°-30°)	539.4	3.0	B2/1000		
BM (30°-60°)	1232.5	6.8	B2/2500		
BH (60°-80°)	254.7	1.4	B1/500		G1/500
BVH (80°-90°)	3.5	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°	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3
2.5°	2498.0	2519.1	2523.1	2529.7	2529.7	2537.7	2550.9	2569.4	2599.8	2615.6	2626.2
5°	2302.4	2318.3	2338.1	2353.9	2384.3	2388.3	2439.8	2490.1	2560.1	2613.0	2650.0
7.5°	2105.5	2124.0	2150.4	2188.7	2228.4	2240.3	2318.3	2402.8	2513.9	2613.0	2675.1
10°	1966.7	1968.0	1991.8	2030.1	2093.6	2108.1	2203.3	2323.5	2462.3	2597.1	2698.9
12.5°	1888.7	1898.0	1908.5	1937.6	1998.4	2007.7	2109.4	2250.8	2410.8	2587.9	2726.7
15°	1888.7	1895.3	1901.9	1916.5	1965.4	1973.3	2063.2	2204.6	2384.3	2591.8	2771.6
17.5°	1908.5	1919.1	1913.8	1931.0	1982.5	1987.8	2067.1	2191.4	2383.0	2617.0	2840.3
20°	1956.1	1964.0	1953.5	1964.0	2015.6	2026.2	2108.1	2216.5	2405.5	2660.6	2926.2
22.5°	2031.4	2035.4	2010.3	2018.2	2071.1	2084.3	2179.5	2287.9	2459.7	2730.6	3041.2
25°	2126.6	2134.5	2096.2	2105.5	2155.7	2171.5	2281.2	2394.9	2545.6	2827.1	3187.9
27.5°	2236.3	2240.3	2207.2	2205.9	2270.7	2293.1	2404.2	2527.1	2660.6	2948.7	3373.0
30°	2361.9	2373.8	2342.0	2336.8	2418.7	2437.2	2546.9	2689.6	2829.7	3131.1	3636.0
32.5°	2461.0	2470.2	2451.7	2465.0	2548.2	2562.8	2720.0	2919.6	3095.4	3390.1	3994.2
35°	2603.7	2609.0	2566.7	2590.5	2685.7	2722.7	2956.6	3242.1	3429.8	3715.3	4462.0
37.5°	3120.5	3120.5	2940.8	2823.1	2914.3	2947.4	3280.4	3647.9	3842.2	4151.4	5051.5
40°	3835.6	3823.7	3560.6	3320.1	3308.2	3373.0	3741.7	4159.4	4374.8	4674.8	5715.0
42.5°	4598.2	4579.7	4221.5	3983.6	3943.9	3966.4	4274.4	4789.8	5009.2	5313.2	6428.7
45°	5274.9	5269.6	4941.8	4622.0	4550.6	4622.0	4939.2	5527.3	5684.6	6004.5	7141.1
47.5°	5841.9	5841.9	5602.7	5393.8	5356.8	5399.1	5839.2	6345.5	6330.9	6740.6	7835.0
50°	6494.8	6489.5	6262.2	6172.3	6210.6	6270.1	6875.5	7207.2	6999.7	7463.6	8454.9
52.5°	6952.1	6983.8	6905.9	6891.3	7086.9	7190.0	7927.5	8050.4	7598.4	8149.6	8918.8
55°	7314.3	7351.3	7441.1	7542.9	7919.6	8054.4	8946.5	8850.1	8099.3	8744.3	9185.8
57.5°	7827.1	7774.2	7913.0	8113.9	8723.2	8885.7	9933.9	9604.8	8502.5	9226.7	9214.9
60°	8449.6	8457.5	8481.3	8735.1	9525.4	9734.3	10906.6	10318.5	8761.5	9522.8	8892.4
62.5°	9197.7	9209.6	9258.5	9648.4	10602.6	10799.6	11942.8	10902.7	8880.5	9439.5	8059.7
65°	9146.1	9196.3	9742.2	11075.8	12240.2	12434.5	13152.2	11312.4	8700.7	8678.2	6562.2
67.5°	8332.0	8413.9	9327.2	12780.8	14709.1	14925.9	14614.0	11393.0	7924.9	6748.6	4281.0
70°	7264.0	7293.1	8391.4	14313.9	17568.0	17787.4	15922.4	10506.1	6013.7	3764.2	1917.8
72.5°	5672.7	5679.3	6968.0	14669.5	19119.6	19131.5	14895.5	7799.3	3234.2	1445.9	666.1
75°	4052.3	4012.7	4666.9	11896.6	16821.2	16956.0	11167.0	3658.4	1235.8	683.3	331.7
77.5°	2172.9	2216.5	2640.7	7055.2	11620.3	11850.3	6093.0	1054.7	629.1	465.2	219.4
80°	671.4	708.4	1082.5	3230.2	6582.0	6720.8	2258.8	469.2	438.8	331.7	144.1
82.5°	211.5	219.4	504.9	1357.4	2731.9	2795.4	654.2	265.7	300.0	219.4	84.6
85°	60.8	62.1	224.7	506.2	675.4	688.6	183.7	103.1	171.8	136.1	43.6
87.5°	6.6	21.1	84.6	84.6	59.5	58.2	19.8	22.5	48.9	17.2	7.9
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°	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3	2614.3
2.5°	2619.6	2620.9	2603.7	2574.7	2542.9	2516.5	2483.5	2457.0	2438.5	2433.2	2442.5
5°	2638.1	2628.8	2579.9	2491.4	2385.7	2294.5	2192.7	2112.1	2059.2	2036.7	2044.7
7.5°	2665.9	2639.4	2532.4	2357.9	2155.7	1975.9	1793.5	1652.1	1562.2	1517.3	1523.9
10°	2689.6	2636.8	2453.1	2164.9	1855.7	1583.4	1337.6	1167.1	1071.9	1027.0	1028.3
12.5°	2712.1	2635.5	2350.0	1936.3	1517.3	1184.2	955.6	871.0	844.6	835.3	832.7
15°	2754.4	2639.4	2220.4	1674.6	1180.3	894.8	811.5	810.2	815.5	812.8	811.5
17.5°	2812.6	2643.4	2073.7	1397.0	910.6	789.1	785.1	797.0	804.9	800.9	799.6
20°	2887.9	2659.2	1917.8	1122.1	782.4	762.6	771.9	782.4	789.1	782.4	781.1
22.5°	2993.6	2687.0	1747.3	901.4	741.5	746.8	754.7	766.6	773.2	763.9	762.6
25°	3123.2	2730.6	1579.4	783.8	721.6	728.3	740.1	753.4	761.3	752.0	750.7
27.5°	3291.0	2800.7	1424.8	757.3	701.8	705.8	723.0	742.8	753.4	741.5	741.5
30°	3534.2	2915.7	1291.3	769.2	689.9	680.7	704.5	732.2	744.1	733.5	732.2
32.5°	3856.7	3078.2	1209.4	787.7	684.6	651.6	674.1	709.7	729.6	723.0	723.0
35°	4279.6	3325.4	1177.6	808.9	680.7	621.2	637.1	675.4	709.7	716.4	716.4
37.5°	4792.5	3669.0	1186.9	818.1	668.8	596.1	604.0	637.1	682.0	703.1	708.4
40°	5375.3	4069.5	1239.7	808.9	655.6	574.9	576.3	601.4	641.0	672.7	683.3
42.5°	5976.7	4537.4	1337.6	774.5	643.7	556.4	552.5	569.7	596.1	618.6	627.8
45°	6549.0	5018.5	1434.0	726.9	629.1	537.9	528.7	535.3	540.6	549.8	555.1
47.5°	7048.6	5356.8	1406.3	683.3	609.3	516.8	500.9	498.3	482.4	481.1	479.8
50°	7393.6	5430.8	1249.0	639.7	580.2	493.0	467.9	452.0	424.3	411.0	412.4
52.5°	7503.3	5138.7	1020.3	596.1	532.6	461.3	425.6	400.5	366.1	354.2	352.9
55°	7357.9	4566.5	815.5	543.2	466.6	419.0	379.3	346.3	318.5	304.0	304.0
57.5°	7002.3	3838.2	645.0	481.1	396.5	371.4	331.7	298.7	274.9	260.4	257.7
60°	6412.9	3047.8	510.2	407.1	338.4	319.8	278.9	257.7	236.6	219.4	215.4
62.5°	5518.1	2175.5	400.5	322.5	282.8	261.7	237.9	222.0	196.9	173.1	169.2
65°	4306.1	1330.9	309.3	236.6	227.3	216.8	202.2	187.7	157.3	133.5	129.5
67.5°	2716.1	630.4	220.7	178.4	179.8	174.5	167.9	156.0	133.5	112.3	109.7
70°	1196.1	305.3	145.4	136.1	133.5	133.5	138.8	134.8	113.7	93.8	89.9
72.5°	407.1	163.9	108.4	103.1	96.5	95.2	116.3	112.3	91.2	72.7	68.7
75°	212.8	109.7	79.3	74.0	58.2	70.0	92.5	87.2	64.8	47.6	43.6
77.5°	138.8	78.0	54.2	47.6	33.0	46.3	68.7	60.8	38.3	23.8	21.1
80°	87.2	51.5	31.7	22.5	15.9	25.1	37.0	26.4	14.5	5.3	4.0
82.5°	46.3	26.4	11.9	7.9	6.6	7.9	9.3	6.6	2.6	0.0	0.0
85°	18.5	9.3	4.0	2.6	1.3	0.0	2.6	1.3	0.0	0.0	0.0
87.5°	6.6	1.3	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)