

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: P884958

Luminaire Tested: **NAV-SB6A-735-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-735-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

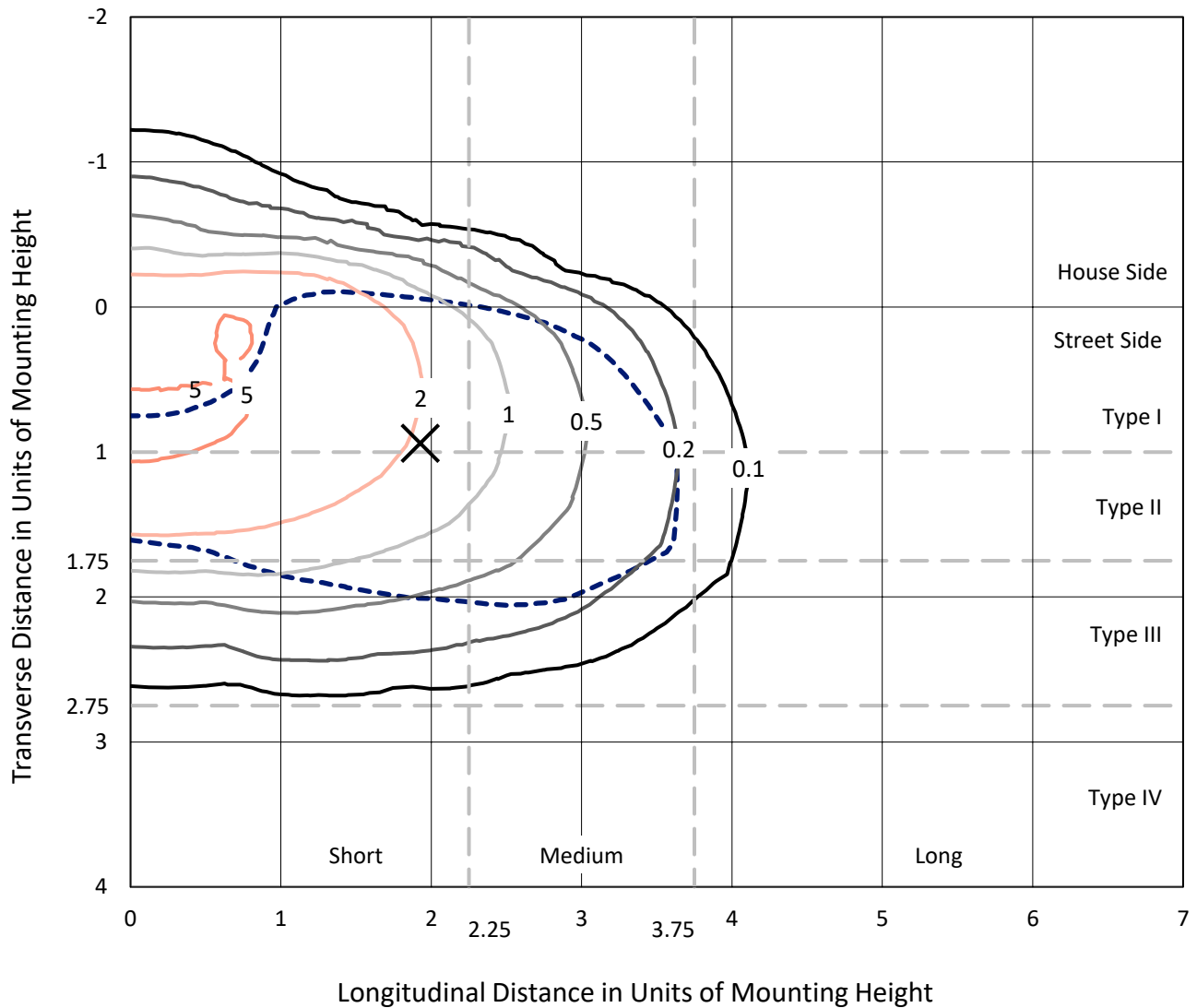
Lumens per Lamp: N/A  
Luminaire Lumens: 21354 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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



REPORT NUMBER: P884958  
 CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

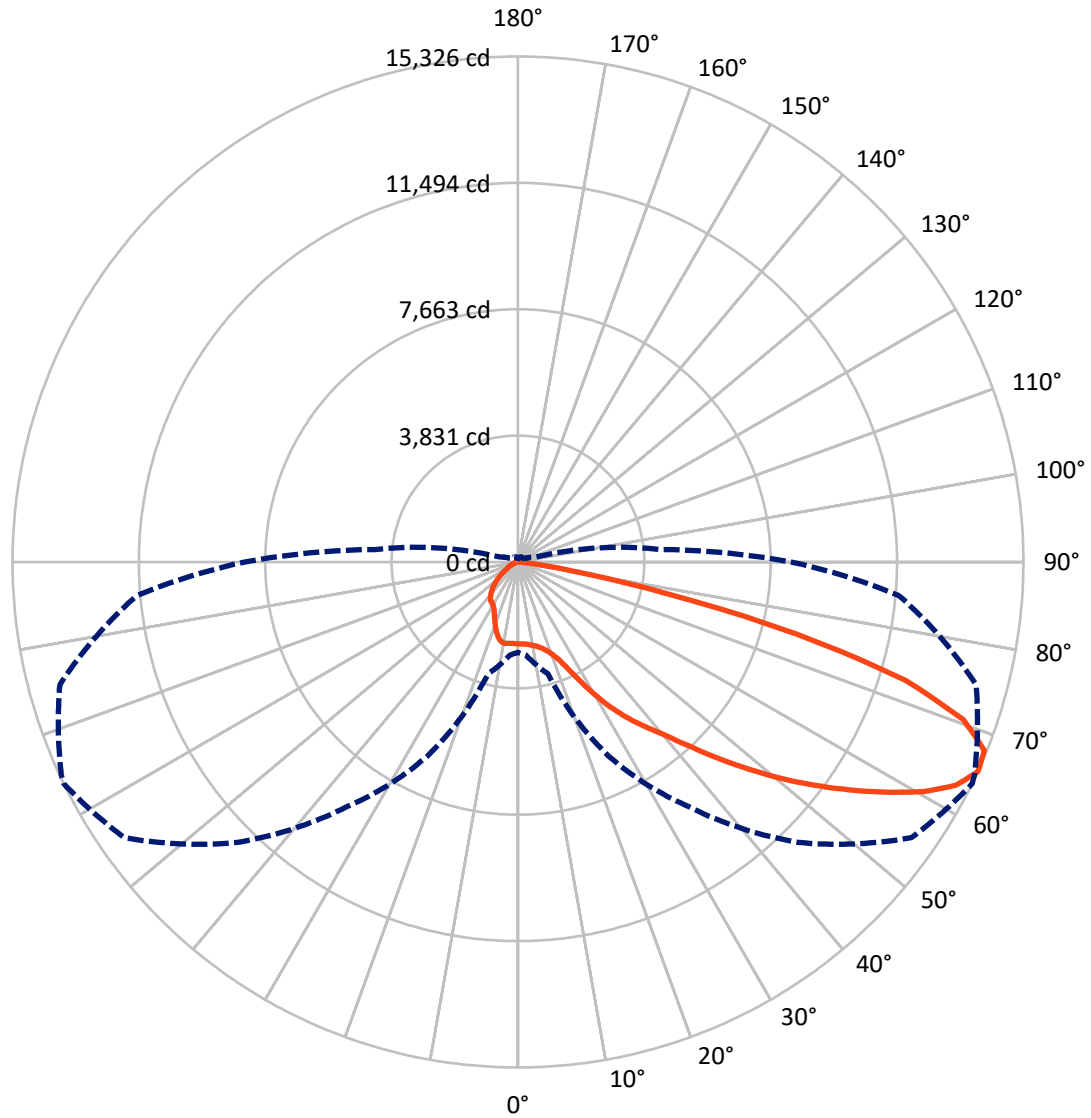
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P884958  
CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P884958

CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

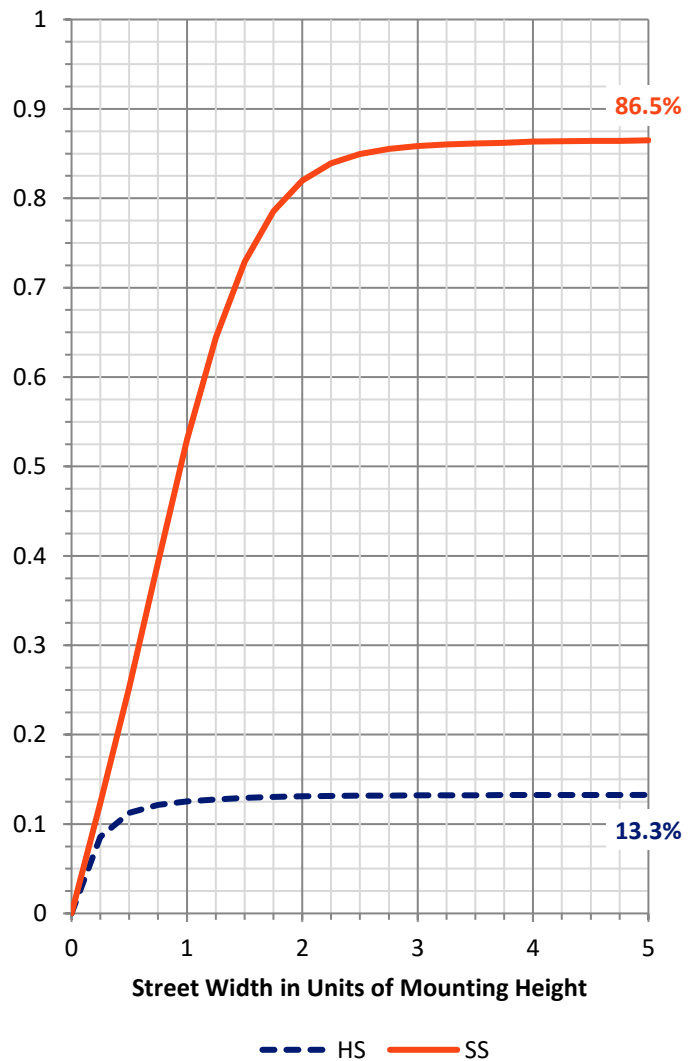
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2855.7	0.0	2855.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	18498.3	0.0	18498.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	21354.0	0.0	21354.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.1	1.1
10°-20°	621.5	2.9
20°-30°	1177.7	5.5
30°-40°	2383.1	11.2
40°-50°	4059.7	19.0
50°-60°	5520.8	25.9
60°-70°	5184.3	24.3
70°-80°	2077.1	9.7
80°-90°	100.6	0.5
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°	21354.0	100.0
0°-180°	21354.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P884958

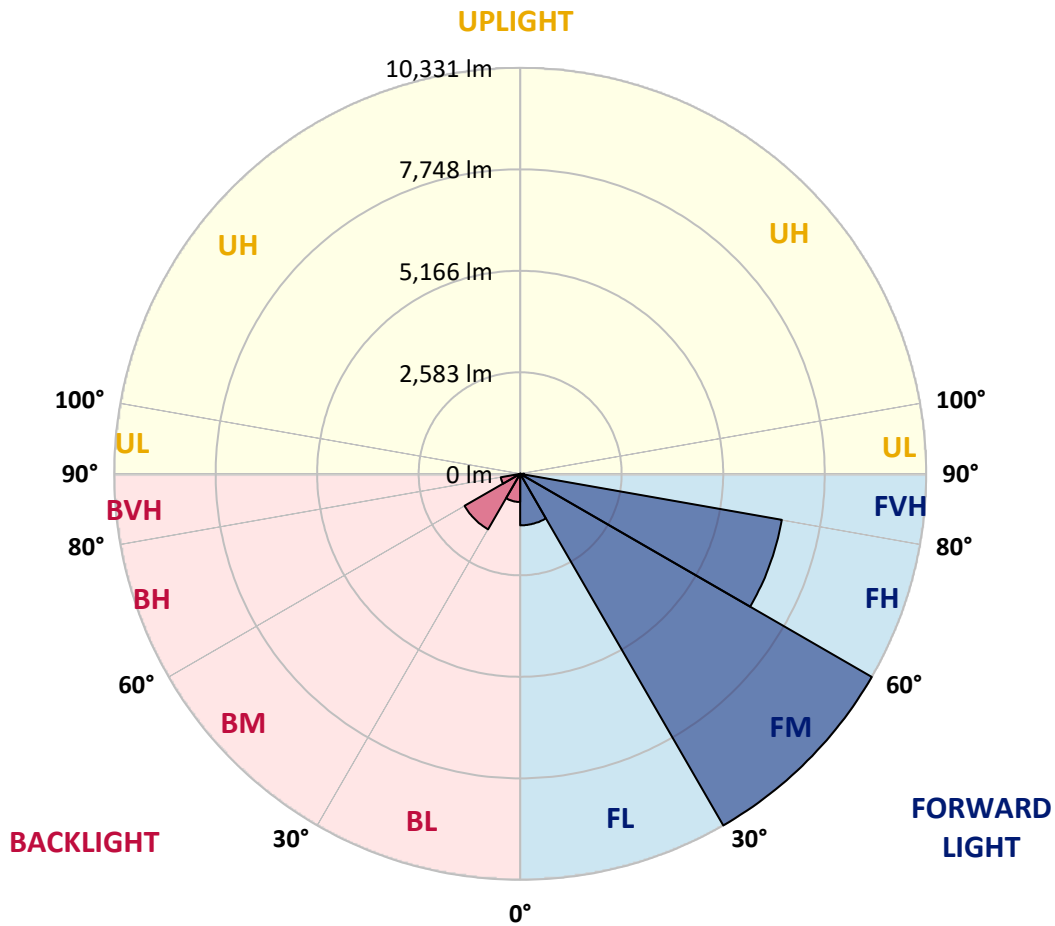
CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.4	6.1			
FM (30°-60°)	10331.0	48.4			
FH (60°-80°)	6760.2	31.7			G3/7500
FVH (80°-90°)	95.7	0.4			G1/100
BL (0°-30°)	717.0	3.4	B2/1000		
BM (30°-60°)	1632.6	7.6	B2/2500		
BH (60°-80°)	501.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short



REPORT NUMBER: P884958

CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7
2.5°	2475.1	2492.3	2488.0	2483.7	2482.3	2485.1	2486.6	2485.1	2485.1	2485.1	2486.6
5°	2427.9	2442.2	2442.2	2452.2	2466.5	2483.7	2496.6	2499.4	2502.3	2506.6	2505.2
7.5°	2337.7	2349.1	2357.7	2390.6	2426.4	2472.2	2510.9	2530.9	2533.8	2549.5	2555.3
10°	2276.1	2290.4	2304.8	2339.1	2390.6	2459.4	2525.2	2573.9	2581.0	2618.3	2635.4
12.5°	2273.3	2287.6	2306.2	2343.4	2403.5	2476.5	2556.7	2626.8	2639.7	2694.1	2729.9
15°	2303.3	2320.5	2337.7	2383.5	2447.9	2536.7	2622.5	2709.9	2722.8	2800.1	2838.7
17.5°	2364.9	2387.8	2400.7	2446.5	2515.2	2614.0	2727.1	2827.3	2838.7	2928.9	2977.6
20°	2486.6	2513.8	2518.0	2555.3	2622.5	2728.5	2863.0	2987.6	3001.9	3105.0	3159.4
22.5°	2738.5	2777.2	2742.8	2761.4	2821.5	2927.5	3073.5	3230.9	3251.0	3368.4	3417.0
25°	3182.3	3236.7	3147.9	3116.4	3142.2	3252.4	3435.7	3634.6	3657.5	3752.0	3776.4
27.5°	4054.1	3983.9	3849.4	3717.7	3640.4	3703.3	3909.5	4155.7	4184.3	4276.0	4247.3
30°	5011.8	4950.2	4768.4	4476.4	4293.1	4283.1	4473.5	4748.4	4781.3	4868.6	4781.3
32.5°	5970.9	5912.2	5714.6	5355.3	5037.5	4880.1	5011.8	5316.7	5333.9	5389.7	5260.8
35°	6914.3	6854.1	6656.6	6288.7	5897.9	5540.0	5514.2	5857.8	5863.5	5922.2	5730.4
37.5°	7863.4	7813.3	7602.8	7242.1	6857.0	6363.1	6124.1	6370.3	6377.4	6434.7	6235.7
40°	8540.5	8561.9	8417.4	8138.2	7807.5	7267.8	6808.3	6915.7	6872.7	6968.7	6849.8
42.5°	9121.7	9164.6	9038.6	8898.3	8706.5	8231.3	7655.8	7637.2	7568.5	7620.0	7496.9
45°	9624.1	9659.9	9546.8	9513.9	9509.6	9176.1	8582.0	8470.3	8374.4	8364.4	8216.9
47.5°	9808.8	9877.5	9926.2	10036.4	10251.1	10110.8	9539.7	9366.5	9259.1	9180.4	8947.0
50°	9878.9	9951.9	10118.0	10438.7	10946.9	11007.0	10493.1	10298.4	10166.7	10023.5	9680.0
52.5°	9784.5	9914.7	10138.0	10677.7	11415.0	11725.6	11407.8	11237.5	11087.1	10853.8	10344.2
55°	9227.6	9357.9	9814.5	10674.9	11648.3	12229.5	12272.4	12196.6	12027.7	11659.8	10881.0
57.5°	8053.7	8247.0	8969.9	10311.3	11644.0	12663.3	13119.9	13174.3	12985.3	12458.5	11303.3
60°	6427.5	6689.5	7571.3	9505.3	11284.7	12898.0	13862.9	14134.9	13934.4	13245.9	11645.4
62.5°	4485.0	4788.4	5623.0	8242.7	10463.0	12729.1	14405.4	14907.9	14756.1	13950.2	11777.1
65°	2735.6	2833.0	3505.8	6486.2	9065.8	12021.9	14572.9	15325.9	15275.8	14381.1	11582.5
67.5°	1822.3	1903.9	2097.2	4447.7	7037.4	10609.0	14172.1	15252.9	15267.2	14310.9	10869.6
70°	1098.0	1168.1	1294.1	2586.8	4560.8	8397.3	12930.9	14322.4	14405.4	13373.3	9518.2
72.5°	452.4	499.6	614.1	1172.4	2362.0	5329.6	10296.9	12296.8	12490.0	11244.6	7305.1
75°	256.2	280.6	360.7	588.4	1025.0	2483.7	6237.1	8729.4	9014.3	7750.3	4394.8
77.5°	170.4	181.8	233.3	380.8	576.9	847.5	2665.5	4547.9	5091.9	4233.0	1902.5
80°	114.5	124.5	160.3	254.8	375.1	363.6	848.9	1684.9	2072.8	1454.4	463.8
82.5°	77.3	78.7	114.5	167.5	237.6	176.1	250.5	523.9	658.5	420.9	176.1
85°	44.4	42.9	84.5	97.3	105.9	73.0	75.9	157.5	206.1	177.5	100.2
87.5°	5.7	8.6	32.9	25.8	14.3	15.7	15.7	27.2	40.1	42.9	21.5
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: P884958  
 CATALOG NUMBER: NAV-SB6A-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7
2.5°	2486.6	2485.1	2480.8	2476.5	2466.5	2460.8	2463.7	2460.8	2459.4	2460.8	2466.5
5°	2505.2	2500.9	2489.4	2475.1	2455.1	2430.7	2415.0	2392.1	2370.6	2357.7	2360.6
7.5°	2555.3	2551.0	2535.2	2495.1	2430.7	2329.1	2236.0	2154.4	2092.9	2057.1	2058.5
10°	2635.4	2628.3	2603.9	2515.2	2346.3	2124.4	1939.7	1786.5	1686.3	1639.1	1634.8
12.5°	2729.9	2721.3	2678.4	2496.6	2185.9	1839.5	1584.7	1414.3	1321.3	1279.8	1275.5
15°	2841.6	2830.1	2745.7	2407.8	1952.6	1524.6	1291.2	1163.8	1103.7	1066.5	1067.9
17.5°	2980.4	2960.4	2795.8	2274.7	1699.2	1284.1	1110.9	1014.9	962.0	926.2	923.3
20°	3160.8	3127.9	2835.8	2115.8	1465.9	1132.3	989.2	909.0	868.9	837.4	831.7
22.5°	3412.8	3365.5	2884.5	1944.0	1301.3	1027.8	899.0	840.3	807.4	771.6	765.9
25°	3724.8	3669.0	2944.6	1785.1	1188.2	937.6	833.1	784.5	745.8	704.3	700.0
27.5°	4161.4	4061.2	3016.2	1654.8	1090.8	860.3	773.0	718.6	674.2	639.9	632.7
30°	4648.2	4483.5	3079.2	1576.1	1002.1	788.8	694.3	639.9	598.4	574.0	569.7
32.5°	5109.1	4885.8	3120.7	1541.7	921.9	707.2	608.4	549.7	518.2	511.1	515.3
35°	5544.3	5249.4	3116.4	1508.8	850.3	625.6	523.9	463.8	439.5	443.8	443.8
37.5°	6045.3	5637.3	3086.4	1457.3	791.6	551.1	450.9	398.0	376.5	377.9	383.6
40°	6628.0	6085.4	3067.8	1359.9	727.2	482.4	390.8	347.9	332.1	326.4	325.0
42.5°	7249.2	6519.2	3070.6	1249.7	647.0	420.9	349.3	313.5	299.2	294.9	293.5
45°	7873.4	6932.9	3074.9	1135.2	562.6	373.6	319.2	289.2	280.6	274.9	274.9
47.5°	8460.3	7285.0	2994.7	1012.1	479.6	337.8	294.9	274.9	267.7	260.5	260.5
50°	9007.1	7519.8	2801.5	868.9	413.7	309.2	276.3	262.0	254.8	247.7	247.7
52.5°	9432.3	7557.0	2482.3	721.5	367.9	287.7	264.8	251.9	243.4	236.2	234.8
55°	9621.3	7323.7	2028.5	584.1	332.1	269.1	253.4	240.5	230.5	223.3	221.9
57.5°	9572.6	6832.7	1581.8	469.5	297.8	250.5	239.1	230.5	219.0	207.6	206.1
60°	9333.5	6175.6	1192.5	390.8	266.3	230.5	223.3	216.2	200.4	183.2	180.4
62.5°	8919.8	5349.6	850.3	323.5	231.9	207.6	204.7	199.0	176.1	144.6	141.7
65°	8287.1	4346.1	572.6	269.1	199.0	181.8	183.2	173.2	143.2	107.4	104.5
67.5°	7362.3	3178.0	366.5	220.5	166.1	151.7	153.2	147.4	121.7	91.6	87.3
70°	6184.2	2104.3	239.1	167.5	133.1	117.4	126.0	127.4	103.1	74.4	71.6
72.5°	4533.6	1242.6	167.5	124.5	97.3	81.6	103.1	105.9	83.0	55.8	53.0
75°	2583.9	589.8	126.0	90.2	60.1	57.3	80.2	80.2	57.3	37.2	34.4
77.5°	1085.1	246.2	88.8	58.7	34.4	32.9	54.4	50.1	28.6	17.2	17.2
80°	313.5	110.2	47.2	28.6	14.3	12.9	21.5	15.7	7.2	2.9	2.9
82.5°	123.1	48.7	18.6	11.5	5.7	5.7	2.9	0.0	0.0	0.0	0.0
85°	73.0	20.0	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	4.3	2.9	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)