

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: P885006

Luminaire Tested: **NAV-SB6A-830-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-830-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

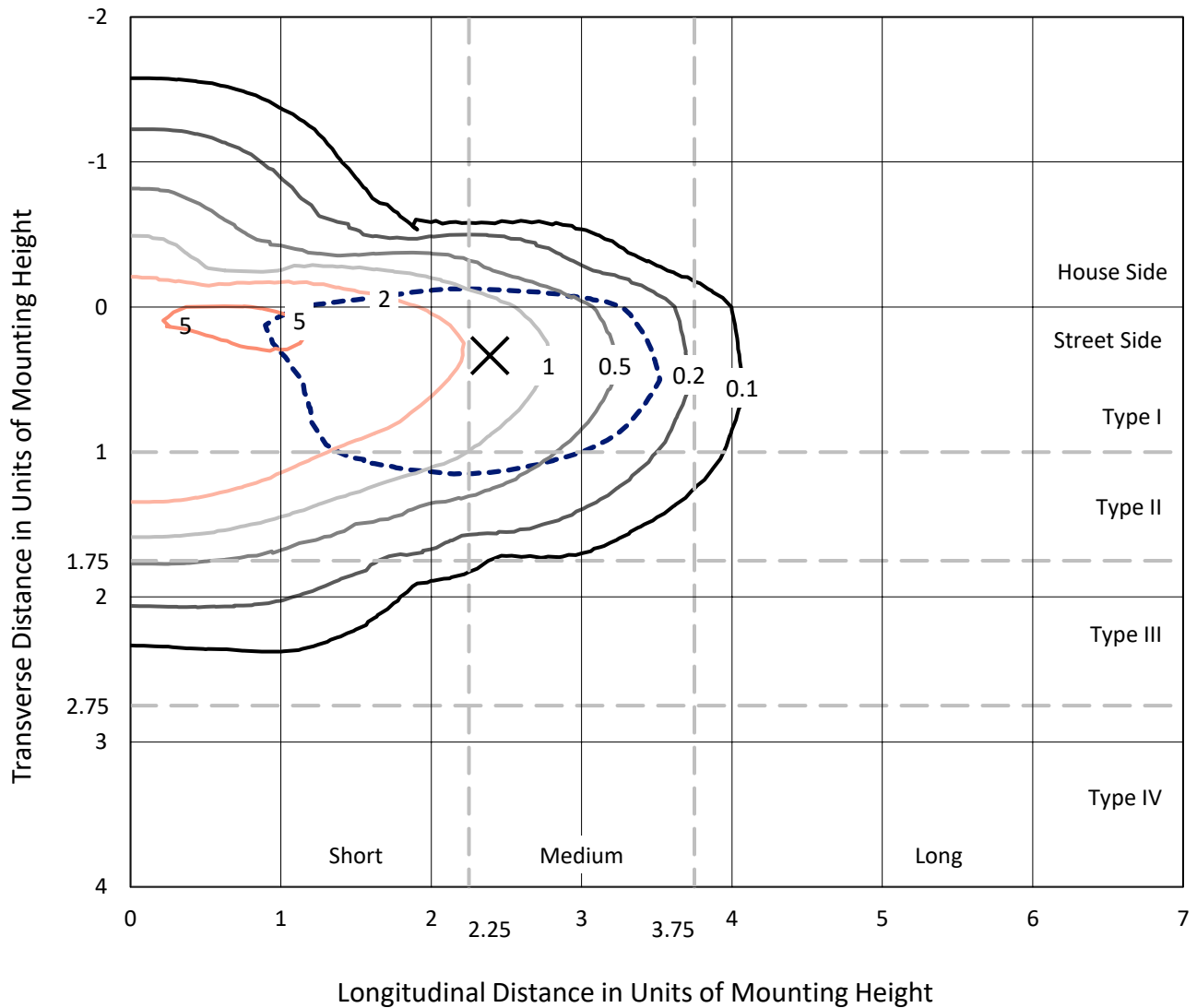
Lumens per Lamp: N/A  
Luminaire Lumens: 17397 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

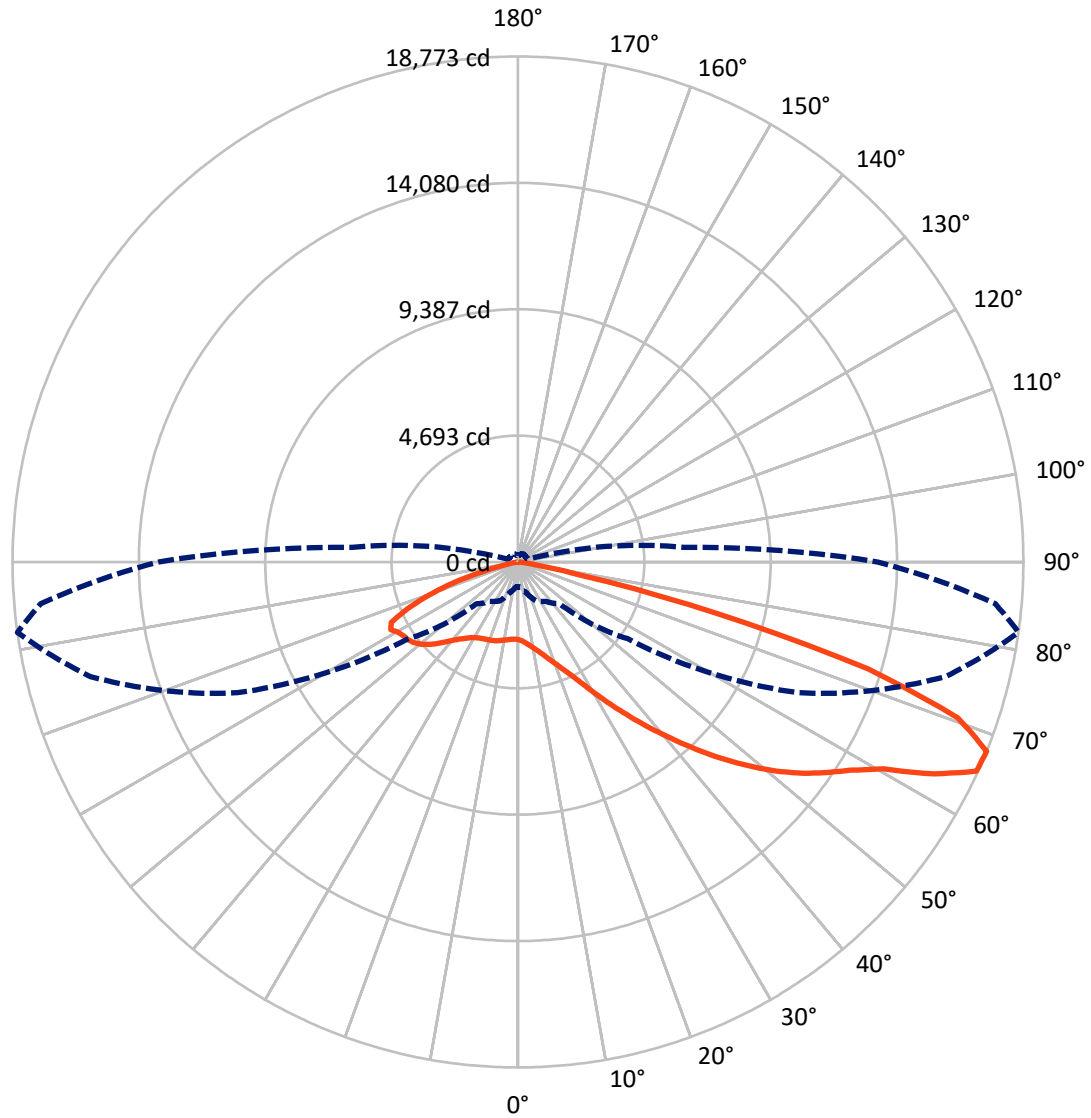
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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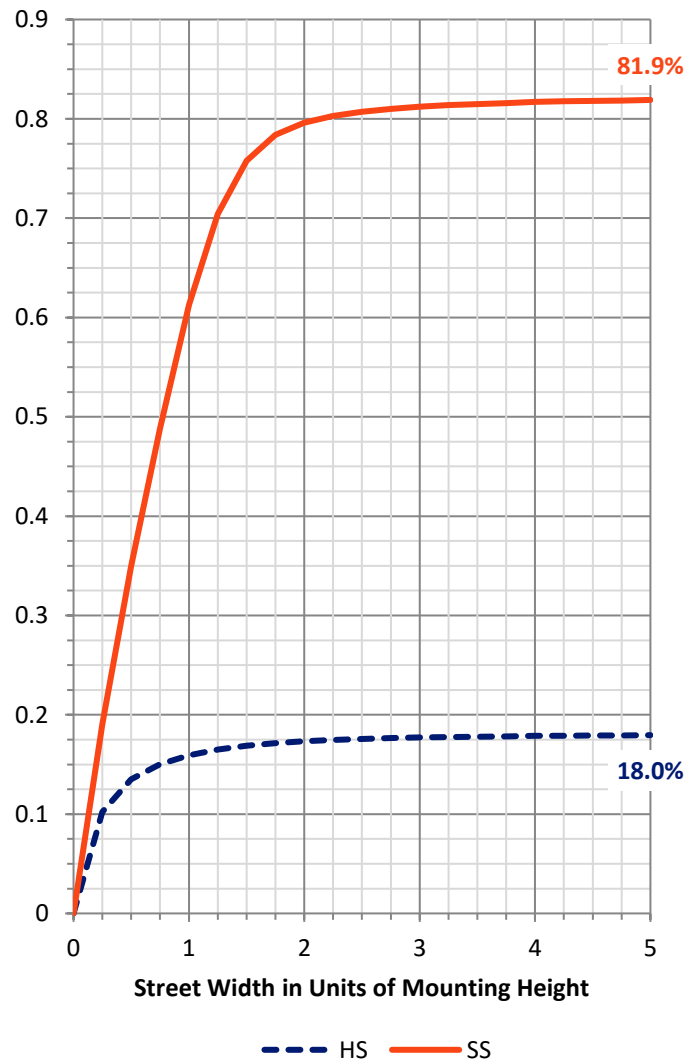
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3151.3	0.0	3151.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	14245.7	0.0	14245.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	17397.0	0.0	17397.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.8	1.5
10°-20°	667.2	3.8
20°-30°	1068.7	6.1
30°-40°	1889.8	10.9
40°-50°	3311.2	19.0
50°-60°	4416.2	25.4
60°-70°	4111.2	23.6
70°-80°	1577.9	9.1
80°-90°	98.0	0.6
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°	17397.0	100.0
0°-180°	17397.0	100.0



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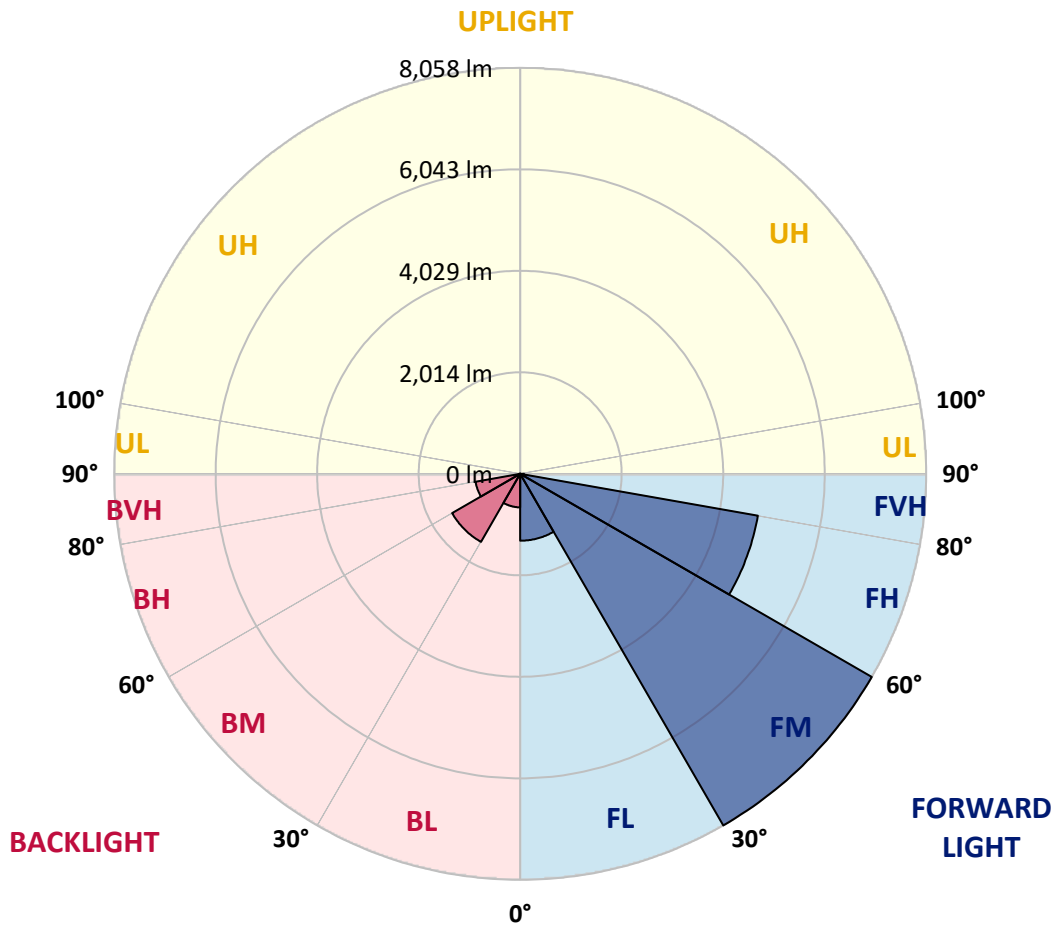
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.2	7.6			
FM (30°-60°)	8057.6	46.3			
FH (60°-80°)	4789.7	27.5			G2/5000
FVH (80°-90°)	71.3	0.4			G1/100
BL (0°-30°)	665.5	3.8	B2/1000		
BM (30°-60°)	1559.6	9.0	B2/2500		
BH (60°-80°)	899.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	26.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1
2.5°	3046.2	3063.7	3053.7	3048.7	3039.9	3027.4	3017.4	2986.1	2953.5	2932.2	2924.7
5°	3107.6	3125.1	3123.8	3128.8	3135.1	3138.9	3136.4	3101.3	3054.9	3018.6	2997.3
7.5°	3054.9	3075.0	3091.3	3116.3	3160.2	3206.5	3229.0	3221.5	3173.9	3123.8	3097.5
10°	2905.9	2927.2	2966.0	3024.9	3117.6	3217.8	3301.7	3340.5	3310.5	3255.4	3219.0
12.5°	2632.8	2654.1	2730.5	2858.3	3013.6	3187.7	3348.0	3452.0	3459.5	3404.4	3361.8
15°	2326.0	2347.3	2428.7	2589.0	2825.7	3105.0	3373.1	3569.7	3636.1	3588.5	3537.2
17.5°	2135.6	2154.4	2215.7	2344.8	2591.5	2939.7	3364.3	3695.0	3846.5	3809.0	3747.6
20°	2078.0	2094.2	2123.1	2213.2	2418.7	2768.1	3306.7	3812.7	4073.3	4052.0	3983.1
22.5°	2139.3	2154.4	2163.1	2203.2	2332.2	2655.4	3234.1	3933.0	4336.3	4338.8	4254.9
25°	2280.9	2295.9	2285.9	2310.9	2367.3	2620.3	3206.5	4074.5	4667.0	4694.5	4599.3
27.5°	2513.8	2515.1	2491.3	2490.0	2498.8	2672.9	3235.3	4226.1	5084.1	5135.4	5017.7
30°	2981.0	2962.3	2870.8	2771.9	2726.8	2830.7	3315.5	4405.2	5576.3	5667.7	5519.9
32.5°	3701.3	3673.7	3505.9	3269.1	3031.1	3085.0	3459.5	4609.3	6112.4	6277.7	6097.4
35°	4482.8	4475.3	4300.0	3948.0	3532.2	3447.0	3693.7	4877.4	6697.3	6960.4	6746.2
37.5°	5209.3	5205.6	5105.4	4690.8	4184.7	3951.8	4069.5	5228.1	7323.6	7704.4	7451.4
40°	5873.2	5884.4	5784.2	5413.5	4903.7	4599.3	4580.5	5661.5	8020.0	8514.8	8214.2
42.5°	6446.8	6459.3	6357.9	6083.6	5613.9	5315.8	5208.1	6192.6	8700.1	9385.3	9029.6
45°	6836.4	6914.0	6899.0	6679.8	6342.9	6033.5	5962.1	6858.9	9475.5	10308.4	9891.3
47.5°	6946.6	7018.0	7130.7	7160.8	6955.4	6651.0	6736.2	7661.8	10259.6	11232.8	10758.1
50°	6674.8	6741.2	6975.4	7287.3	7430.1	7336.1	7488.9	8522.3	11062.4	12154.6	11608.5
52.5°	6138.7	6206.3	6501.9	6995.4	7577.9	7873.5	8244.2	9370.3	11840.3	13027.7	12413.9
55°	5363.4	5434.8	5814.3	6372.9	7296.0	8095.2	8874.2	10217.0	12553.0	13813.0	13140.4
57.5°	4308.7	4361.3	4755.9	5537.5	6587.1	7874.7	9338.9	11141.3	13224.3	14584.6	13860.6
60°	2808.2	2854.5	3313.0	4184.7	5412.2	7138.2	9431.6	12172.2	14116.1	15587.9	14831.3
62.5°	1867.5	1898.9	2170.7	2810.7	3811.5	5724.1	8889.3	12995.1	15423.8	17333.9	16495.9
65°	1281.3	1312.7	1584.5	2030.4	2462.5	3786.4	7329.9	12886.1	16608.7	18720.5	17729.7
67.5°	914.4	940.7	1171.1	1592.0	1782.4	2199.5	4968.8	11493.3	16438.3	18773.1	17796.1
70°	655.1	670.1	860.5	1240.0	1416.6	1321.4	2763.1	8790.3	14392.9	17335.2	16440.8
72.5°	458.4	463.4	597.5	944.4	1141.1	964.5	1315.2	5860.6	10885.8	13606.3	12745.8
75°	310.6	316.9	402.1	692.7	915.6	736.5	696.4	3142.6	6390.5	7531.5	6751.2
77.5°	190.4	192.9	259.3	473.5	685.1	561.1	448.4	1331.4	2472.5	2427.4	2069.2
80°	107.7	107.7	165.3	294.3	467.2	362.0	314.4	566.1	782.8	687.6	606.2
82.5°	60.1	61.4	120.2	182.9	309.4	214.2	172.9	261.8	338.2	299.4	260.5
85°	25.1	27.6	73.9	86.4	147.8	106.5	70.1	110.2	125.3	111.5	81.4
87.5°	2.5	3.8	22.5	16.3	17.5	21.3	10.0	21.3	17.5	17.5	12.5
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°	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1	2882.1
2.5°	2900.9	2882.1	2834.5	2779.4	2706.7	2671.7	2624.1	2591.5	2563.9	2566.5	2541.4
5°	2957.2	2909.7	2803.2	2670.4	2505.1	2387.3	2262.1	2175.7	2105.5	2090.5	2056.7
7.5°	3034.9	2959.8	2773.1	2533.9	2254.6	2042.9	1853.8	1732.3	1645.8	1618.3	1590.7
10°	3135.1	3026.1	2734.3	2362.3	1960.2	1690.9	1488.0	1392.8	1334.0	1313.9	1298.9
12.5°	3251.6	3102.5	2682.9	2153.1	1657.1	1397.8	1268.8	1221.2	1202.4	1196.2	1192.4
15°	3398.1	3197.7	2605.3	1905.1	1400.3	1218.7	1163.6	1157.3	1159.9	1157.3	1156.1
17.5°	3572.2	3301.7	2478.8	1649.6	1227.5	1127.3	1107.2	1112.3	1118.5	1117.3	1114.8
20°	3762.6	3404.4	2317.2	1422.9	1109.8	1062.2	1050.9	1055.9	1060.9	1058.4	1057.1
22.5°	3979.3	3514.6	2138.1	1246.3	1030.8	1002.0	989.5	990.8	990.8	985.7	983.2
25°	4238.6	3636.1	1950.2	1121.0	970.7	948.2	933.1	928.1	920.6	905.6	903.1
27.5°	4548.0	3765.1	1769.8	1033.3	923.1	901.8	884.3	871.8	853.0	827.9	825.4
30°	4896.2	3921.7	1617.0	978.2	885.5	864.3	844.2	825.4	797.9	766.6	764.0
32.5°	5305.8	4089.5	1505.6	941.9	851.7	829.2	805.4	782.8	752.8	721.5	722.7
35°	5794.2	4292.5	1440.4	916.9	825.4	795.4	769.1	744.0	721.5	693.9	691.4
37.5°	6324.1	4507.9	1420.4	904.3	807.9	761.5	731.5	713.9	711.4	695.2	693.9
40°	6904.0	4763.4	1435.4	896.8	789.1	729.0	696.4	692.7	698.9	670.1	671.4
42.5°	7517.7	5066.5	1460.5	888.1	762.8	696.4	665.1	665.1	660.1	620.0	620.0
45°	8181.6	5416.0	1485.5	866.8	731.5	663.8	640.0	631.3	610.0	571.2	569.9
47.5°	8850.4	5771.7	1504.3	827.9	693.9	636.3	615.0	595.0	563.6	528.6	527.3
50°	9485.5	6091.1	1484.3	770.3	651.3	610.0	587.4	559.9	526.1	502.3	498.5
52.5°	10052.9	6367.9	1399.1	702.7	606.2	582.4	562.4	533.6	506.0	481.0	478.5
55°	10546.4	6592.1	1248.8	638.8	566.1	558.6	538.6	502.3	464.7	443.4	440.9
57.5°	11019.8	6762.5	1060.9	586.2	529.8	532.3	502.3	469.7	434.6	412.1	409.6
60°	11649.9	6990.4	870.5	537.3	491.0	498.5	465.9	442.1	398.3	369.5	365.7
62.5°	12656.9	7344.9	691.4	477.2	445.9	448.4	434.6	405.8	353.2	319.4	316.9
65°	13456.0	7214.6	544.9	412.1	394.6	398.3	398.3	367.0	310.6	271.8	268.0
67.5°	13365.9	6177.5	434.6	348.2	345.7	348.2	357.0	330.7	275.6	244.2	239.2
70°	12312.5	4913.7	348.2	289.3	300.6	294.3	319.4	301.9	248.0	216.7	212.9
72.5°	10046.6	3539.7	265.5	239.2	230.5	240.5	288.1	271.8	206.7	171.6	167.8
75°	5870.7	1888.8	197.9	189.1	166.6	200.4	255.5	231.7	157.8	126.5	122.7
77.5°	1911.4	658.8	145.3	139.0	124.0	161.6	217.9	195.4	129.0	100.2	96.4
80°	512.3	199.2	99.0	91.4	80.2	120.2	172.9	155.3	92.7	65.1	63.9
82.5°	205.4	83.9	57.6	51.4	43.8	82.7	136.5	125.3	68.9	41.3	41.3
85°	66.4	27.6	21.3	16.3	20.0	51.4	81.4	85.2	48.8	21.3	16.3
87.5°	8.8	3.8	3.8	5.0	3.8	8.8	25.1	23.8	13.8	2.5	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)