

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: P885016

Luminaire Tested: **NAV-SB6A-835-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885016  
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-835-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

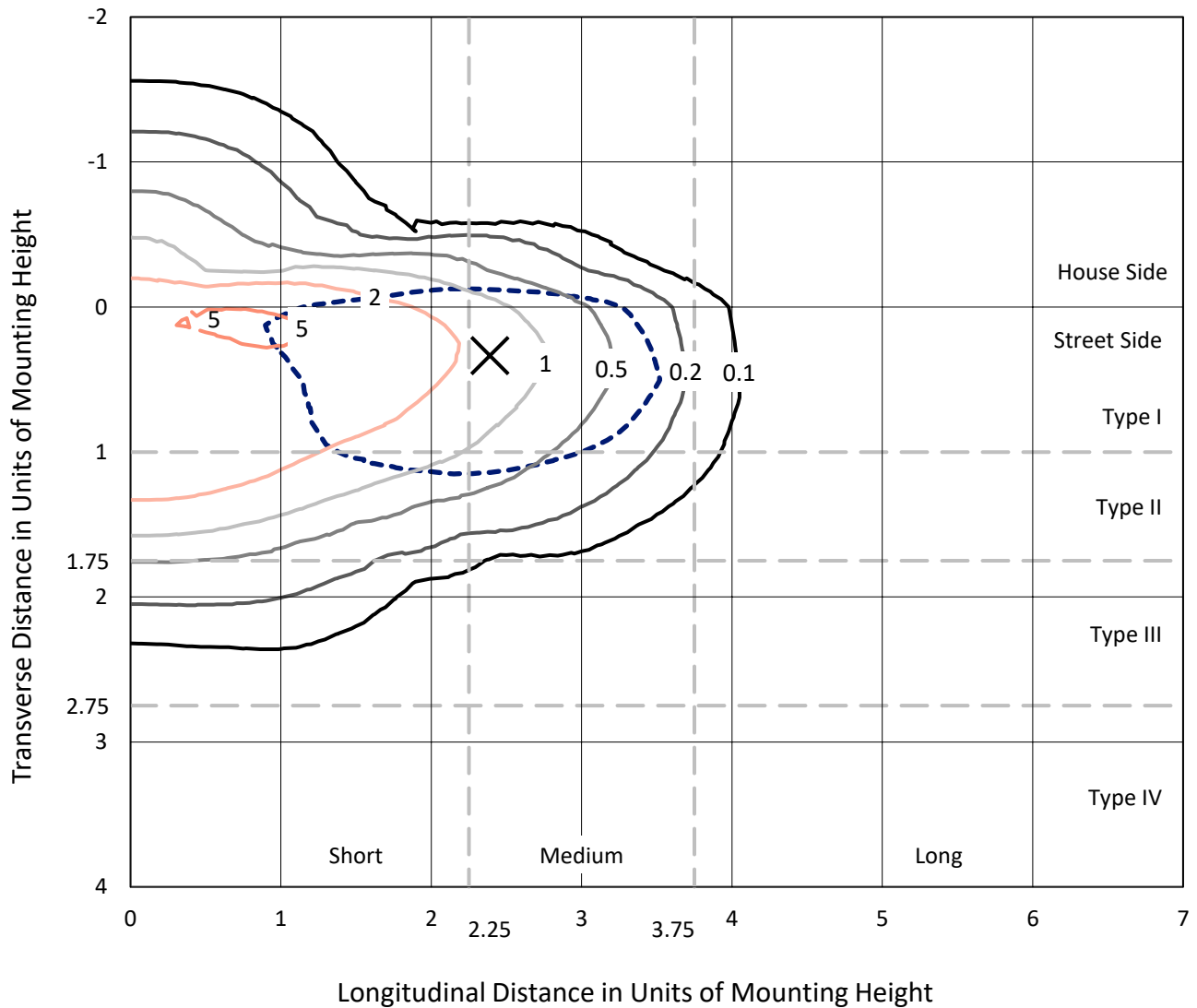
Lumens per Lamp: N/A  
Luminaire Lumens: 16775 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

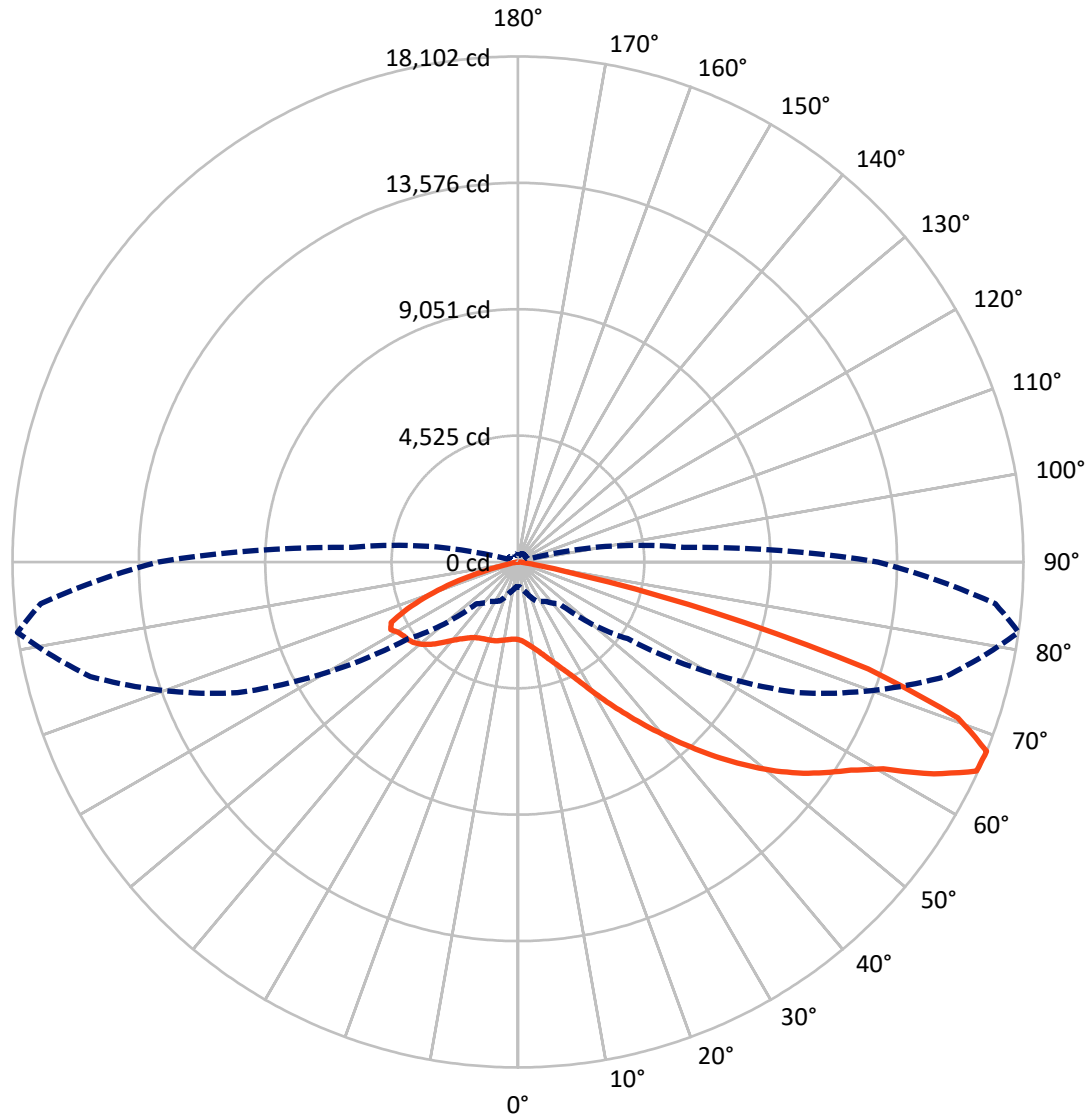
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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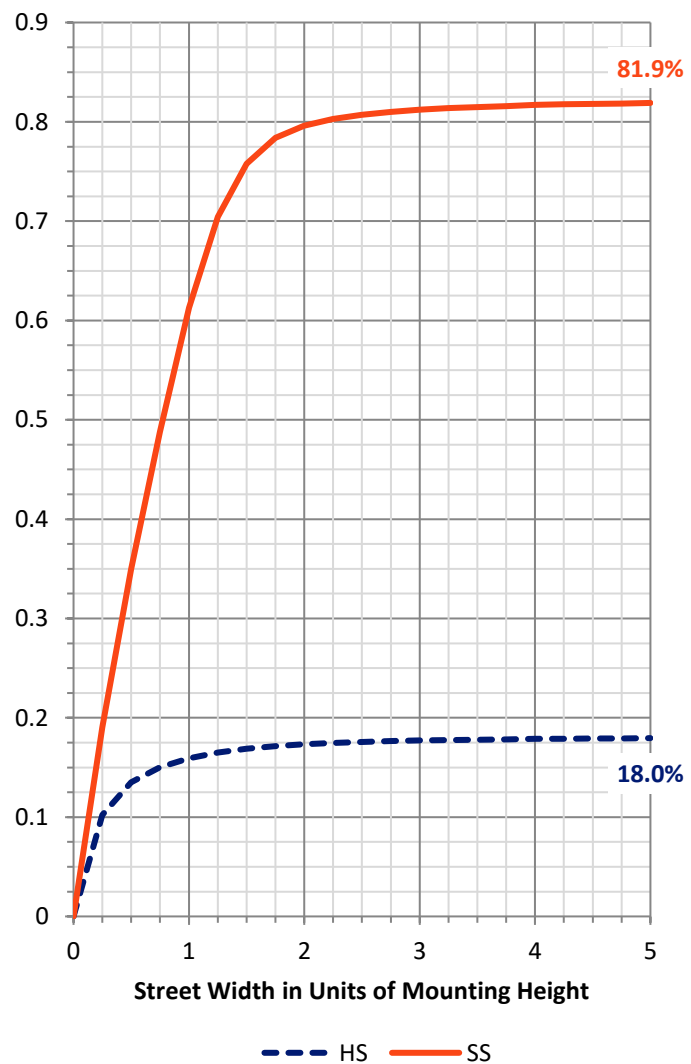
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3038.6	0.0	3038.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	13736.4	0.0	13736.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	16775.0	0.0	16775.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.6	1.5
10°-20°	643.4	3.8
20°-30°	1030.5	6.1
30°-40°	1822.3	10.9
40°-50°	3192.8	19.0
50°-60°	4258.3	25.4
60°-70°	3964.2	23.6
70°-80°	1521.5	9.1
80°-90°	94.5	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°	16775.0	100.0
0°-180°	16775.0	100.0

**Coefficient of Utilization**



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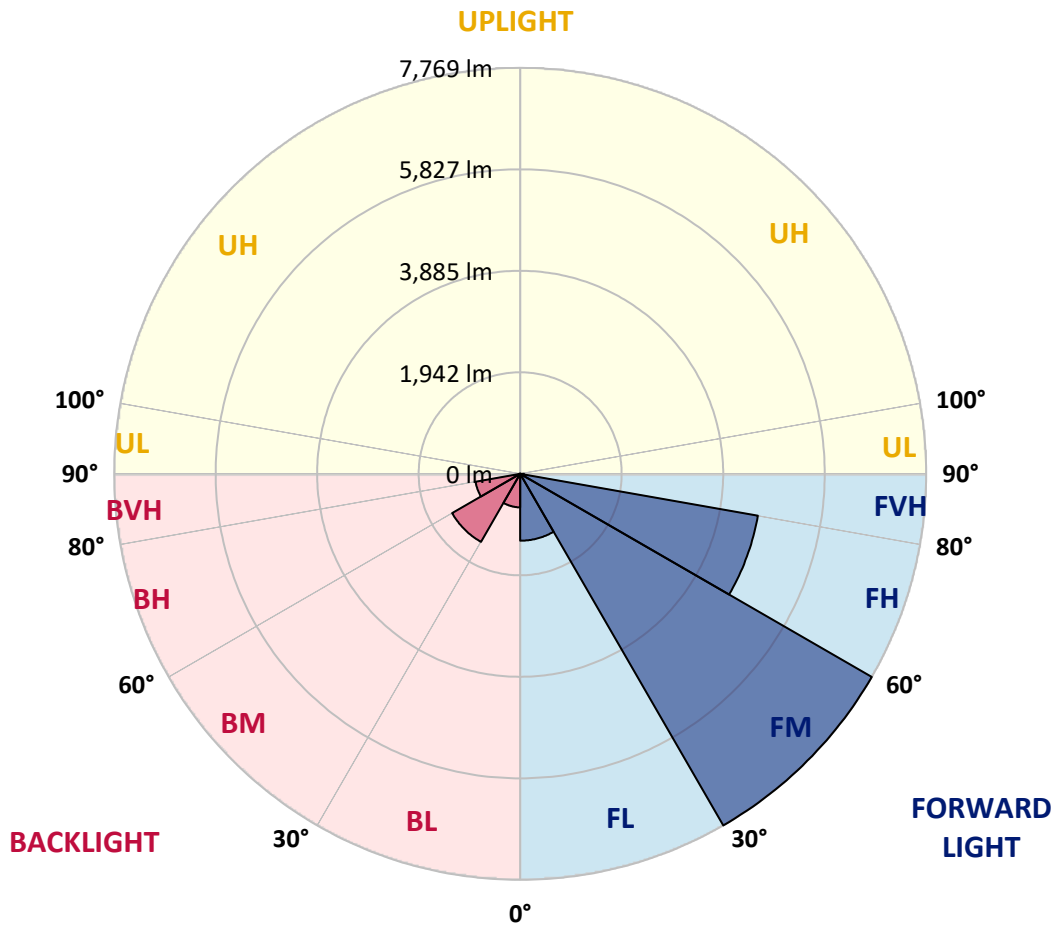
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.7	7.6			
FM (30°-60°)	7769.5	46.3			
FH (60°-80°)	4618.4	27.5			G2/5000
FVH (80°-90°)	68.7	0.4			G1/100
BL (0°-30°)	641.8	3.8	B2/1000		
BM (30°-60°)	1503.8	9.0	B2/2500		
BH (60°-80°)	867.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	25.8	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°	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0
2.5°	2937.3	2954.2	2944.5	2939.7	2931.2	2919.1	2909.5	2879.3	2847.9	2827.4	2820.1
5°	2996.4	3013.4	3012.1	3017.0	3023.0	3026.6	3024.2	2990.4	2945.7	2910.7	2890.2
7.5°	2945.7	2965.0	2980.7	3004.9	3047.2	3091.9	3113.6	3106.4	3060.5	3012.1	2986.8
10°	2802.0	2822.5	2860.0	2916.7	3006.1	3102.7	3183.6	3221.1	3192.1	3139.0	3103.9
12.5°	2538.7	2559.2	2632.9	2756.1	2905.9	3073.7	3228.3	3328.6	3335.8	3282.7	3241.6
15°	2242.8	2263.3	2341.8	2496.4	2724.7	2994.0	3252.5	3442.1	3506.1	3460.2	3410.7
17.5°	2059.2	2077.3	2136.5	2260.9	2498.9	2834.6	3244.0	3562.9	3709.0	3672.8	3613.6
20°	2003.7	2019.4	2047.1	2134.1	2332.2	2669.1	3188.5	3676.4	3927.6	3907.1	3840.7
22.5°	2062.8	2077.3	2085.8	2124.4	2248.8	2560.4	3118.4	3792.4	4181.3	4183.7	4102.8
25°	2199.3	2213.8	2204.2	2228.3	2282.7	2526.6	3091.9	3928.8	4500.1	4526.7	4434.9
27.5°	2424.0	2425.2	2402.2	2401.0	2409.5	2577.4	3119.6	4075.0	4902.3	4951.8	4838.3
30°	2874.5	2856.3	2768.2	2672.8	2629.3	2729.5	3196.9	4247.7	5376.9	5465.1	5322.6
32.5°	3568.9	3542.4	3380.5	3152.2	2922.8	2974.7	3335.8	4444.5	5893.9	6053.3	5879.4
35°	4322.6	4315.3	4146.2	3806.9	3405.9	3323.7	3561.7	4703.0	6457.9	6711.5	6505.0
37.5°	5023.1	5019.4	4922.8	4523.1	4035.1	3810.5	3924.0	5041.2	7061.8	7428.9	7184.9
40°	5663.2	5674.0	5577.4	5219.9	4728.4	4434.9	4416.8	5459.1	7733.3	8210.3	7920.5
42.5°	6216.3	6228.4	6130.6	5866.1	5413.2	5125.7	5021.9	5971.2	8389.1	9049.7	8706.7
45°	6591.9	6666.8	6652.3	6441.0	6116.1	5817.8	5748.9	6613.7	9136.7	9939.8	9537.7
47.5°	6698.2	6767.1	6875.8	6904.7	6706.7	6413.2	6495.3	7387.9	9892.7	10831.2	10373.4
50°	6436.1	6500.2	6726.0	7026.7	7164.4	7073.8	7221.2	8217.6	10666.9	11720.1	11193.5
52.5°	5919.2	5984.4	6269.5	6745.3	7306.9	7592.0	7949.5	9035.2	11416.9	12561.9	11970.1
55°	5171.6	5240.5	5606.4	6145.1	7035.2	7805.7	8557.0	9851.7	12104.1	13319.1	12670.6
57.5°	4154.7	4205.4	4585.9	5339.5	6351.6	7593.2	9005.0	10743.0	12751.5	14063.1	13365.0
60°	2707.8	2752.5	3194.5	4035.1	5218.7	6883.0	9094.4	11737.0	13611.4	15030.5	14301.1
62.5°	1800.8	1831.0	2093.0	2710.2	3675.2	5519.5	8571.5	12530.5	14872.3	16714.2	15906.2
65°	1235.5	1265.7	1527.8	1957.8	2374.5	3651.1	7067.8	12425.4	16014.9	18051.1	17095.8
67.5°	881.7	907.0	1129.3	1535.1	1718.6	2120.8	4791.2	11082.4	15850.6	18101.9	17159.8
70°	631.7	646.2	829.7	1195.7	1366.0	1274.2	2664.3	8476.0	13878.3	16715.4	15853.0
72.5°	442.0	446.9	576.1	910.6	1100.3	930.0	1268.1	5651.1	10496.6	13119.9	12290.1
75°	299.5	305.6	387.7	667.9	882.9	710.2	671.5	3030.3	6162.0	7262.2	6509.8
77.5°	183.6	186.0	250.0	456.5	660.6	541.1	432.4	1283.8	2384.1	2340.6	1995.2
80°	103.9	103.9	159.4	283.8	450.5	349.0	303.1	545.9	754.8	663.1	584.6
82.5°	58.0	59.2	115.9	176.3	298.3	206.5	166.7	252.4	326.1	288.7	251.2
85°	24.2	26.6	71.3	83.3	142.5	102.7	67.6	106.3	120.8	107.5	78.5
87.5°	2.4	3.6	21.7	15.7	16.9	20.5	9.7	20.5	16.9	16.9	12.1
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°	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0	2779.0
2.5°	2797.2	2779.0	2733.2	2680.0	2610.0	2576.1	2530.3	2498.9	2472.3	2474.7	2450.5
5°	2851.5	2805.6	2703.0	2574.9	2415.5	2302.0	2181.2	2097.9	2030.2	2015.7	1983.1
7.5°	2926.4	2853.9	2674.0	2443.3	2174.0	1969.9	1787.5	1670.3	1587.0	1560.4	1533.9
10°	3023.0	2917.9	2636.5	2277.8	1890.1	1630.5	1434.8	1343.0	1286.3	1266.9	1252.4
12.5°	3135.3	2991.6	2587.0	2076.1	1597.9	1347.9	1223.5	1177.6	1159.4	1153.4	1149.8
15°	3276.6	3083.4	2512.1	1837.0	1350.3	1175.1	1122.0	1116.0	1118.4	1116.0	1114.8
17.5°	3444.5	3183.6	2390.2	1590.6	1183.6	1087.0	1067.7	1072.5	1078.5	1077.3	1074.9
20°	3628.1	3282.7	2234.4	1372.0	1070.1	1024.2	1013.3	1018.1	1023.0	1020.6	1019.3
22.5°	3837.0	3389.0	2061.6	1201.7	994.0	966.2	954.1	955.3	955.3	950.5	948.1
25°	4087.1	3506.1	1880.5	1080.9	936.0	914.3	899.8	894.9	887.7	873.2	870.8
27.5°	4385.4	3630.5	1706.6	996.4	890.1	869.6	852.7	840.6	822.5	798.3	795.9
30°	4721.1	3781.5	1559.2	943.3	853.9	833.4	814.0	795.9	769.3	739.1	736.7
32.5°	5116.1	3943.3	1451.7	908.2	821.3	799.5	776.6	754.8	725.9	695.7	696.9
35°	5587.1	4139.0	1388.9	884.1	795.9	766.9	741.6	717.4	695.7	669.1	666.7
37.5°	6098.0	4346.7	1369.6	872.0	779.0	734.3	705.3	688.4	686.0	670.3	669.1
40°	6657.2	4593.1	1384.1	864.8	760.9	702.9	671.5	667.9	673.9	646.2	647.4
42.5°	7249.0	4885.4	1408.2	856.3	735.5	671.5	641.3	641.3	636.5	597.8	597.8
45°	7889.1	5222.3	1432.4	835.8	705.3	640.1	617.2	608.7	588.2	550.7	549.5
47.5°	8534.0	5565.3	1450.5	798.3	669.1	613.5	593.0	573.7	543.5	509.7	508.5
50°	9146.3	5873.3	1431.2	742.8	628.0	588.2	566.4	539.9	507.3	484.3	480.7
52.5°	9693.5	6140.2	1349.1	677.6	584.6	561.6	542.3	514.5	487.9	463.8	461.4
55°	10169.3	6356.4	1204.1	616.0	545.9	538.7	519.3	484.3	448.1	427.5	425.1
57.5°	10625.8	6520.7	1023.0	565.2	510.9	513.3	484.3	452.9	419.1	397.4	394.9
60°	11233.4	6740.5	839.4	518.1	473.4	480.7	449.3	426.3	384.1	356.3	352.7
62.5°	12204.4	7082.3	666.7	460.2	430.0	432.4	419.1	391.3	340.6	308.0	305.6
65°	12974.9	6956.7	525.4	397.4	380.4	384.1	384.1	353.9	299.5	262.1	258.5
67.5°	12888.0	5956.7	419.1	335.8	333.3	335.8	344.2	318.8	265.7	235.5	230.7
70°	11872.3	4738.0	335.8	279.0	289.9	283.8	308.0	291.1	239.1	208.9	205.3
72.5°	9687.4	3413.1	256.0	230.7	222.2	231.9	277.8	262.1	199.3	165.5	161.8
75°	5660.8	1821.3	190.8	182.4	160.6	193.2	246.4	223.4	152.2	122.0	118.4
77.5°	1843.0	635.3	140.1	134.1	119.6	155.8	210.1	188.4	124.4	96.6	93.0
80°	494.0	192.0	95.4	88.2	77.3	115.9	166.7	149.8	89.4	62.8	61.6
82.5°	198.1	80.9	55.6	49.5	42.3	79.7	131.6	120.8	66.4	39.9	39.9
85°	64.0	26.6	20.5	15.7	19.3	49.5	78.5	82.1	47.1	20.5	15.7
87.5°	8.5	3.6	3.6	4.8	3.6	8.5	24.2	22.9	13.3	2.4	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)