

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: P885108

Luminaire Tested: **NAV-SB6B-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885108
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-SB6B-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA 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: 24292 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

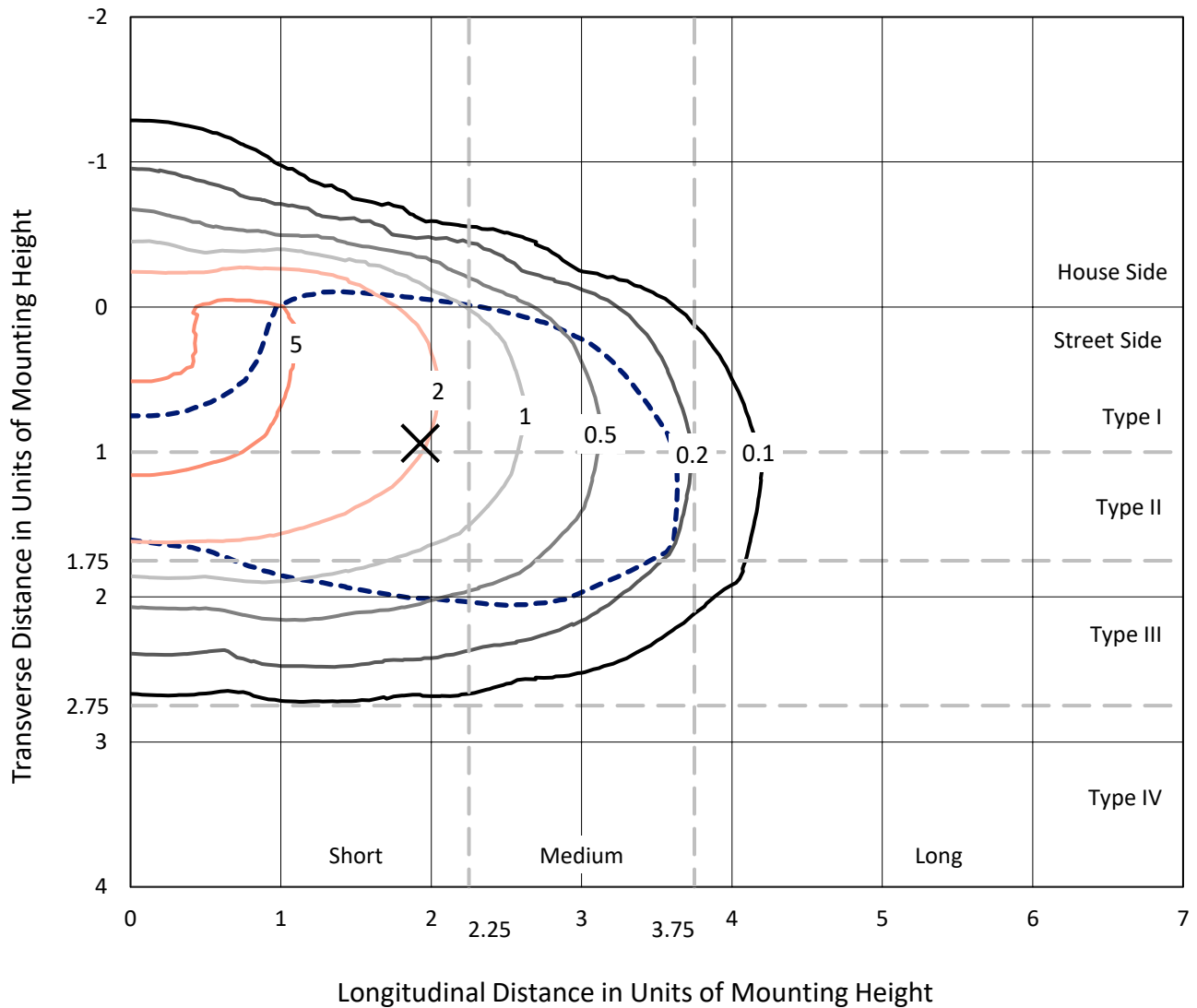
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

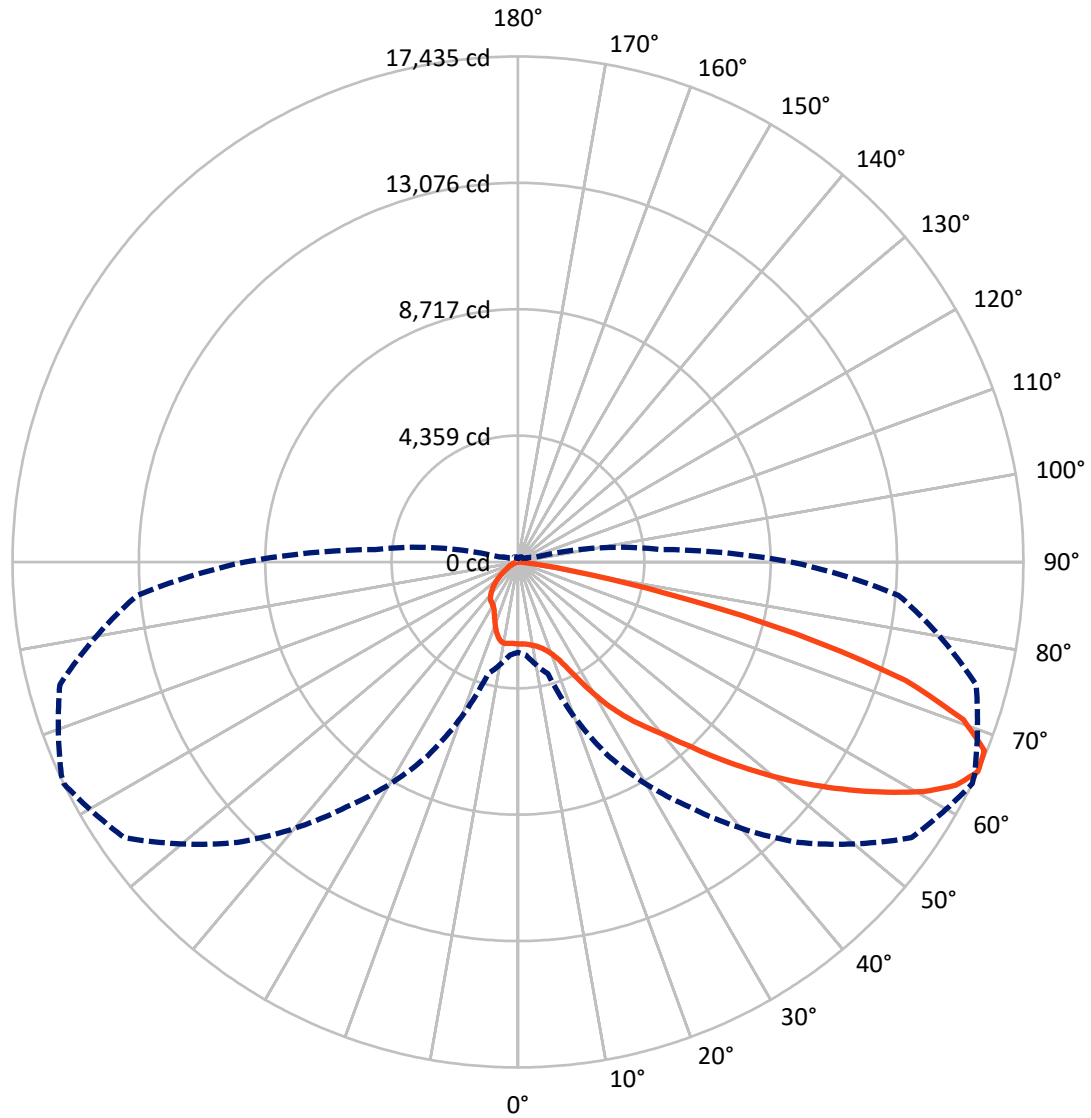
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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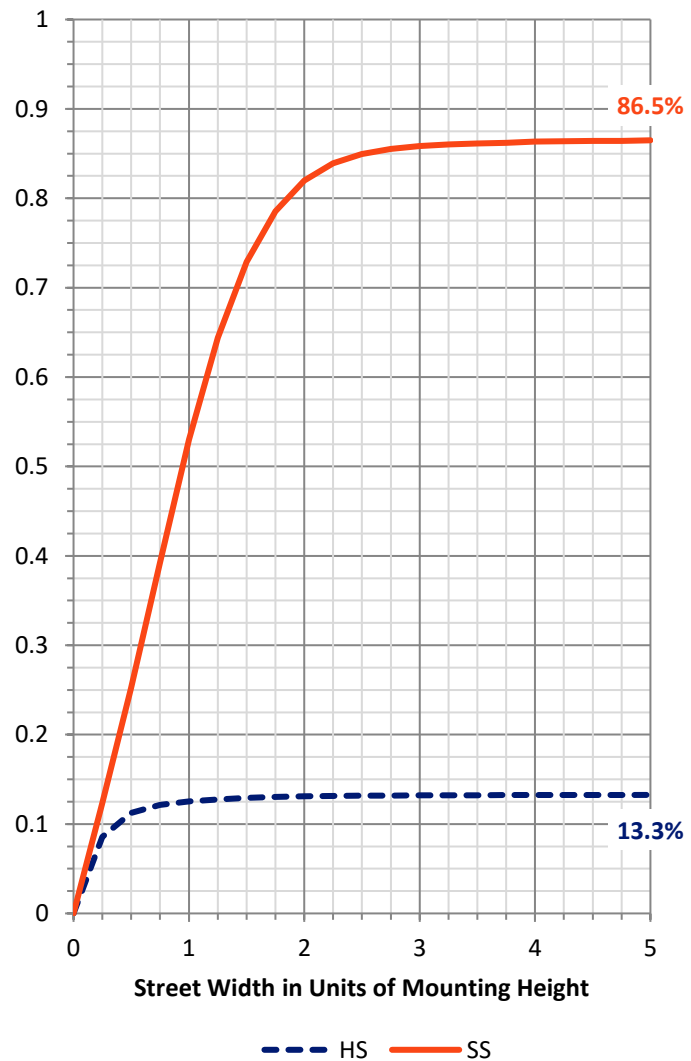
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.6	0.0	3248.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21043.4	0.0	21043.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	24292.0	0.0	24292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	1.1
10°-20°	707.0	2.9
20°-30°	1339.7	5.5
30°-40°	2711.0	11.2
40°-50°	4618.2	19.0
50°-60°	6280.4	25.9
60°-70°	5897.6	24.3
70°-80°	2362.8	9.7
80°-90°	114.5	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°	24292.0	100.0
0°-180°	24292.0	100.0

Coefficient of Utilization



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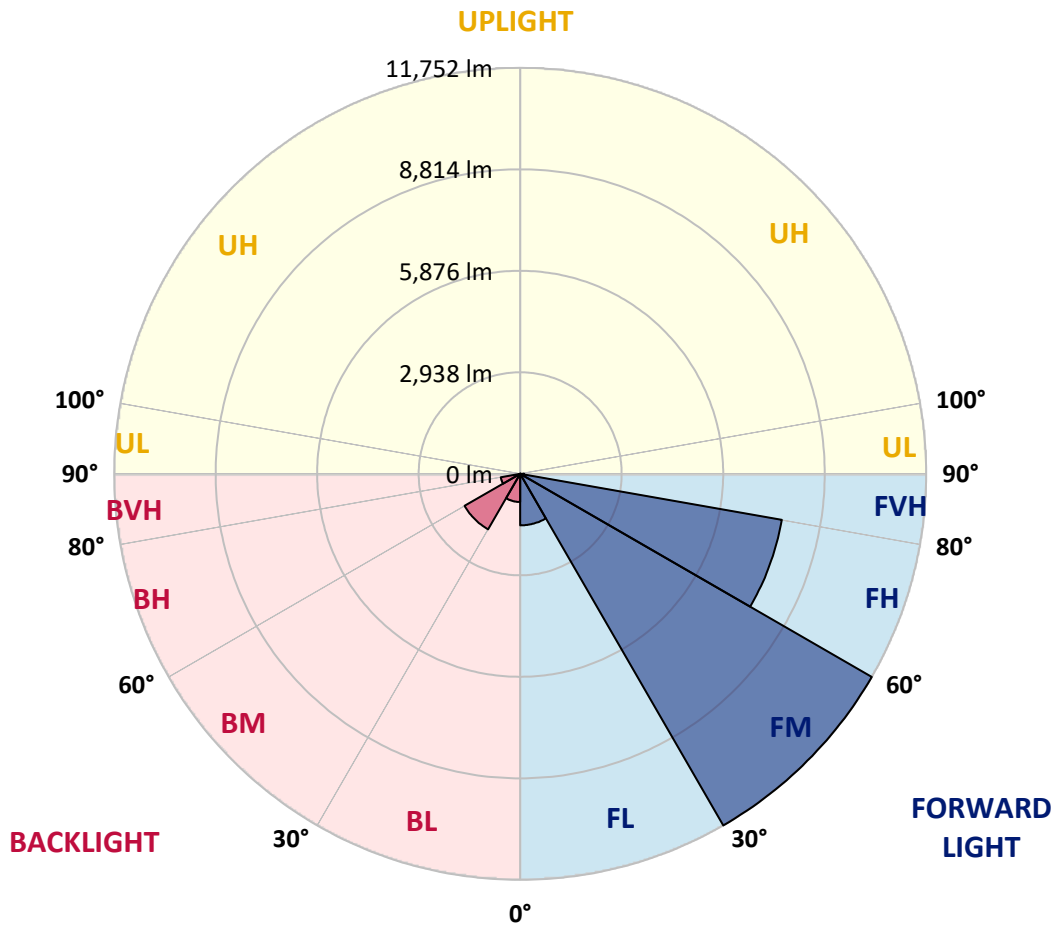
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.8	6.1			
FM (30°-60°)	11752.4	48.4			
FH (60°-80°)	7690.3	31.7			G4/12000
FVH (80°-90°)	108.9	0.4			G2/225
BL (0°-30°)	815.6	3.4	B2/1000		
BM (30°-60°)	1857.2	7.6	B2/2500		
BH (60°-80°)	570.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4
2.5°	2815.6	2835.2	2830.3	2825.4	2823.8	2827.0	2828.7	2827.0	2827.0	2827.0	2828.7
5°	2761.9	2778.2	2778.2	2789.6	2805.9	2825.4	2840.1	2843.3	2846.6	2851.5	2849.8
7.5°	2659.3	2672.3	2682.1	2719.6	2760.3	2812.4	2856.4	2879.2	2882.4	2900.3	2906.8
10°	2589.3	2605.6	2621.9	2660.9	2719.6	2797.7	2872.6	2928.0	2936.1	2978.5	2998.0
12.5°	2586.0	2602.3	2623.5	2665.8	2734.2	2817.3	2908.5	2988.3	3002.9	3064.8	3105.5
15°	2620.2	2639.8	2659.3	2711.4	2784.7	2885.7	2983.4	3082.7	3097.4	3185.3	3229.3
17.5°	2690.2	2716.3	2731.0	2783.1	2861.2	2973.6	3102.3	3216.2	3229.3	3331.9	3387.2
20°	2828.7	2859.6	2864.5	2906.8	2983.4	3103.9	3257.0	3398.6	3414.9	3532.2	3594.1
22.5°	3115.3	3159.3	3120.2	3141.3	3209.7	3330.2	3496.3	3675.5	3698.3	3831.8	3887.2
25°	3620.1	3682.0	3581.0	3545.2	3574.5	3699.9	3908.4	4134.7	4160.8	4268.2	4295.9
27.5°	4611.9	4532.1	4379.0	4229.2	4141.2	4212.9	4447.4	4727.5	4760.0	4864.3	4831.7
30°	5701.3	5631.3	5424.5	5092.3	4883.8	4872.4	5089.0	5401.7	5439.1	5538.5	5439.1
32.5°	6792.4	6725.6	6500.9	6092.1	5730.6	5551.5	5701.3	6048.2	6067.7	6131.2	5984.7
35°	7865.6	7797.2	7572.4	7153.9	6709.3	6302.2	6272.9	6663.7	6670.3	6737.0	6518.8
37.5°	8945.2	8888.2	8648.9	8238.5	7800.4	7238.6	6966.6	7246.7	7254.9	7320.0	7093.7
40°	9715.5	9739.9	9575.5	9257.9	8881.7	8267.8	7745.0	7867.2	7818.3	7927.4	7792.3
42.5°	10376.7	10425.5	10282.2	10122.6	9904.4	9363.8	8709.1	8687.9	8609.8	8668.4	8528.3
45°	10948.3	10989.0	10860.3	10822.9	10818.0	10438.6	9762.7	9635.7	9526.6	9515.2	9347.5
47.5°	11158.3	11236.5	11291.9	11417.3	11661.5	11502.0	10852.2	10655.1	10533.0	10443.4	10178.0
50°	11238.1	11321.2	11510.1	11874.9	12453.0	12521.4	11936.8	11715.3	11565.5	11402.6	11011.8
52.5°	11130.7	11278.8	11532.9	12146.8	12985.5	13338.9	12977.4	12783.6	12612.6	12347.1	11767.4
55°	10497.2	10645.4	11164.9	12143.6	13250.9	13912.1	13961.0	13874.6	13682.5	13264.0	12378.1
57.5°	9161.8	9381.7	10204.1	11729.9	13246.1	14405.5	14925.0	14986.9	14771.9	14172.7	12858.5
60°	7311.9	7609.9	8613.0	10813.1	12837.3	14672.6	15770.2	16079.6	15851.6	15068.3	13247.7
62.5°	5102.0	5447.3	6396.7	9376.8	11902.6	14480.4	16387.4	16959.0	16786.4	15869.5	13397.5
65°	3112.0	3222.8	3988.1	7378.6	10313.2	13676.0	16577.9	17434.5	17377.5	16359.7	13176.0
67.5°	2073.1	2165.9	2385.7	5059.7	8005.6	12068.7	16121.9	17351.4	17367.7	16279.9	12365.0
70°	1249.0	1328.8	1472.1	2942.7	5188.3	9552.7	14710.1	16292.9	16387.4	15213.3	10827.8
72.5°	514.6	568.3	698.6	1333.7	2687.0	6062.8	11713.7	13988.6	14208.5	12791.7	8310.1
75°	291.5	319.2	410.4	669.3	1166.0	2825.4	7095.3	9930.5	10254.5	8816.6	4999.4
77.5°	193.8	206.8	265.4	433.2	656.3	964.1	3032.2	5173.7	5792.5	4815.4	2164.2
80°	130.3	141.7	182.4	289.9	426.7	413.6	965.7	1916.7	2358.0	1654.5	527.6
82.5°	87.9	89.6	130.3	190.5	270.3	200.3	285.0	596.0	749.1	478.8	200.3
85°	50.5	48.9	96.1	110.7	120.5	83.1	86.3	179.1	234.5	201.9	114.0
87.5°	6.5	9.8	37.5	29.3	16.3	17.9	17.9	30.9	45.6	48.9	24.4
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°	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4	2825.4
2.5°	2828.7	2827.0	2822.2	2817.3	2805.9	2799.4	2802.6	2799.4	2797.7	2799.4	2805.9
5°	2849.8	2845.0	2831.9	2815.6	2792.8	2765.2	2747.2	2721.2	2696.8	2682.1	2685.4
7.5°	2906.8	2902.0	2884.0	2838.4	2765.2	2649.5	2543.7	2450.9	2380.8	2340.1	2341.8
10°	2998.0	2989.9	2962.2	2861.2	2669.1	2416.7	2206.6	2032.3	1918.3	1864.6	1859.7
12.5°	3105.5	3095.7	3046.9	2840.1	2486.7	2092.6	1802.7	1608.9	1503.1	1455.9	1451.0
15°	3232.5	3219.5	3123.4	2739.1	2221.2	1734.3	1468.9	1324.0	1255.6	1213.2	1214.8
17.5°	3390.5	3367.7	3180.4	2587.7	1933.0	1460.7	1263.7	1154.6	1094.3	1053.6	1050.4
20°	3595.7	3558.2	3226.0	2406.9	1667.6	1288.1	1125.3	1034.1	988.5	952.7	946.1
22.5°	3882.3	3828.6	3281.4	2211.5	1480.3	1169.2	1022.7	955.9	918.5	877.8	871.2
25°	4237.3	4173.8	3349.8	2030.7	1351.6	1066.7	947.8	892.4	848.4	801.2	796.3
27.5°	4734.0	4620.0	3431.2	1882.5	1240.9	978.7	879.4	817.5	767.0	727.9	719.8
30°	5287.7	5100.4	3502.9	1793.0	1139.9	897.3	789.8	727.9	680.7	653.0	648.1
32.5°	5812.0	5558.0	3550.1	1753.9	1048.7	804.5	692.1	625.3	589.5	581.4	586.3
35°	6307.1	5971.6	3545.2	1716.4	967.3	711.6	596.0	527.6	499.9	504.8	504.8
37.5°	6877.1	6413.0	3511.0	1657.8	900.5	627.0	513.0	452.7	428.3	429.9	436.4
40°	7539.9	6922.7	3489.8	1547.1	827.3	548.8	444.6	395.7	377.8	371.3	369.7
42.5°	8246.6	7416.1	3493.1	1421.7	736.1	478.8	397.3	356.6	340.4	335.5	333.8
45°	8956.6	7886.7	3498.0	1291.4	640.0	425.0	363.2	329.0	319.2	312.7	312.7
47.5°	9624.3	8287.3	3406.8	1151.3	545.5	384.3	335.5	312.7	304.5	296.4	296.4
50°	10246.4	8554.4	3186.9	988.5	470.6	351.8	314.3	298.0	289.9	281.7	281.7
52.5°	10730.1	8596.7	2823.8	820.8	418.5	327.3	301.3	286.6	276.8	268.7	267.1
55°	10945.0	8331.3	2307.6	664.4	377.8	306.2	288.2	273.6	262.2	254.0	252.4
57.5°	10889.6	7772.7	1799.5	534.1	338.7	285.0	272.0	262.2	249.2	236.1	234.5
60°	10617.7	7025.3	1356.5	444.6	302.9	262.2	254.0	245.9	228.0	208.4	205.2
62.5°	10147.1	6085.6	967.3	368.0	263.8	236.1	232.9	226.4	200.3	164.5	161.2
65°	9427.3	4944.1	651.4	306.2	226.4	206.8	208.4	197.0	162.8	122.1	118.9
67.5°	8375.3	3615.2	416.9	250.8	188.9	172.6	174.2	167.7	138.4	104.2	99.3
70°	7035.0	2393.9	272.0	190.5	151.4	133.5	143.3	144.9	117.3	84.7	81.4
72.5°	5157.4	1413.5	190.5	141.7	110.7	92.8	117.3	120.5	94.5	63.5	60.3
75°	2939.4	670.9	143.3	102.6	68.4	65.1	91.2	91.2	65.1	42.3	39.1
77.5°	1234.4	280.1	101.0	66.8	39.1	37.5	61.9	57.0	32.6	19.5	19.5
80°	356.6	125.4	53.7	32.6	16.3	14.7	24.4	17.9	8.1	3.3	3.3
82.5°	140.0	55.4	21.2	13.0	6.5	6.5	3.3	0.0	0.0	0.0	0.0
85°	83.1	22.8	9.8	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	4.9	3.3	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)