

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: P965004

Luminaire Tested: **NAV-SB3D-722-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3D-722-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19757.9 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

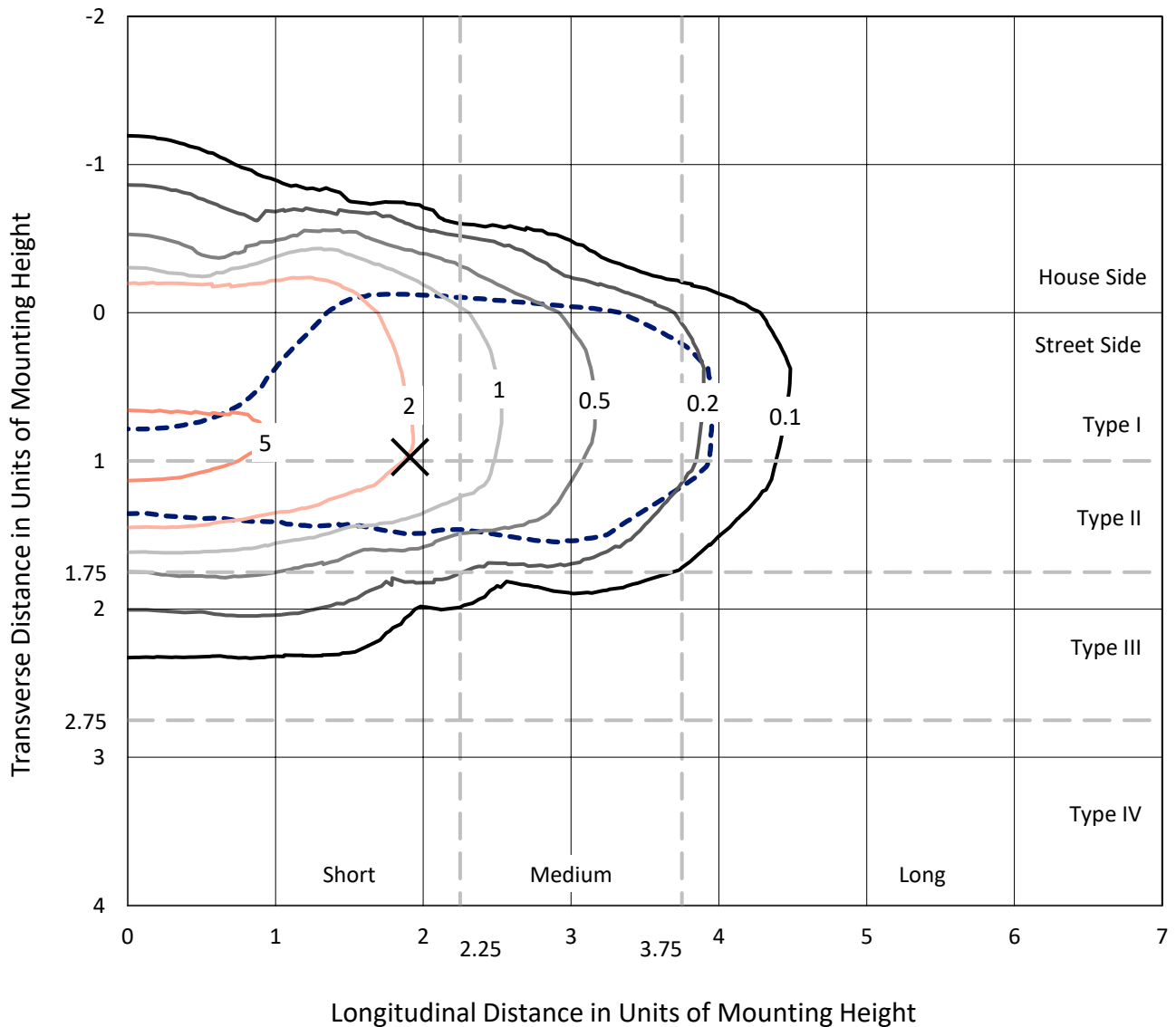
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

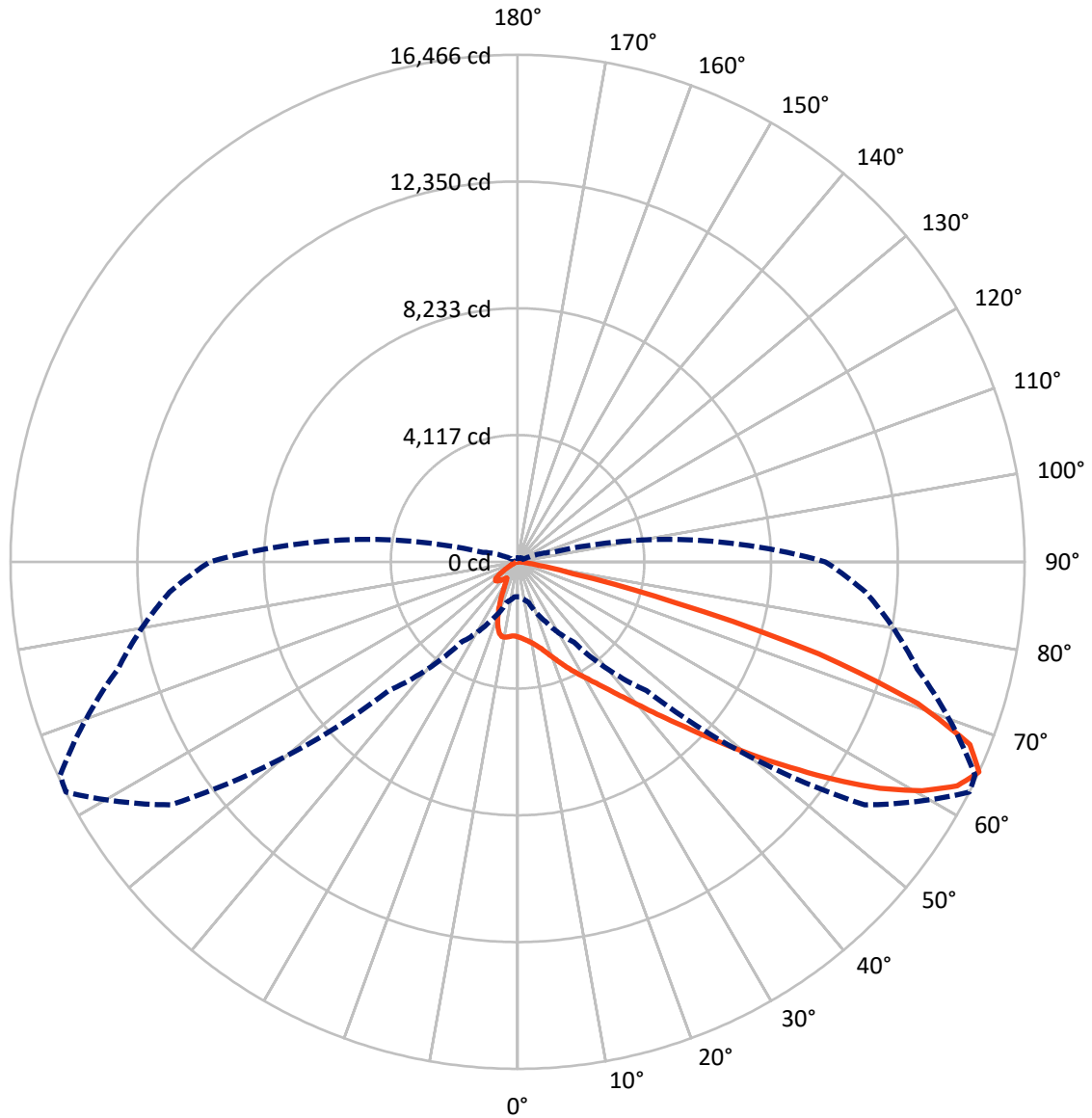
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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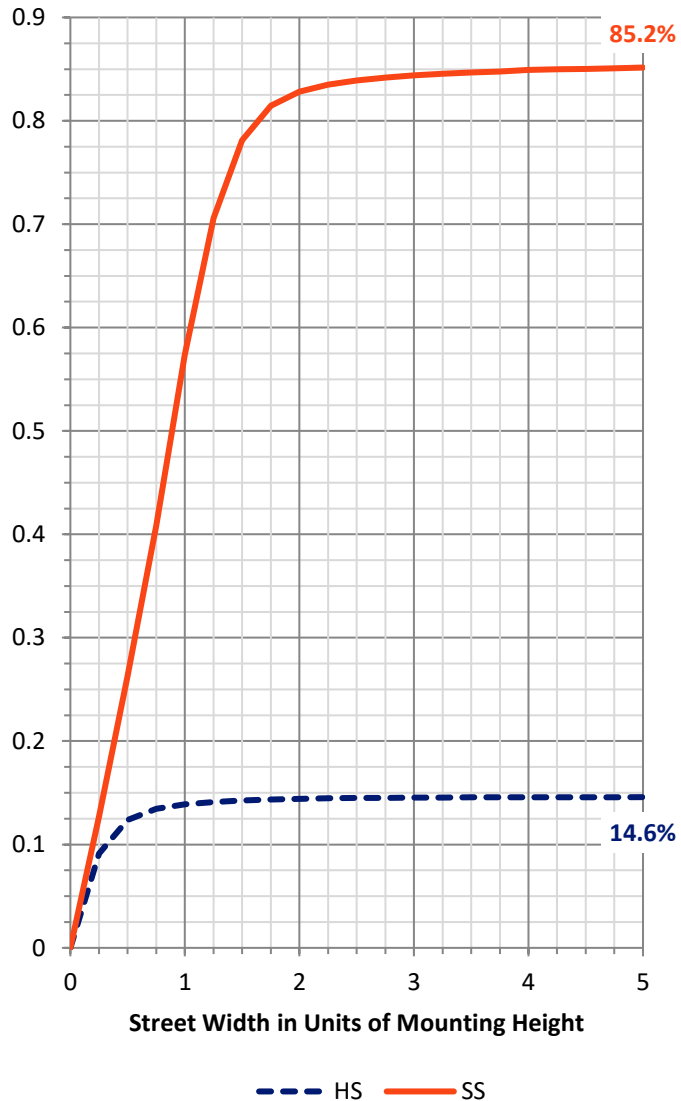
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2904.3	0.0	2904.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	16853.6	0.0	16853.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	19757.9	0.0	19757.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.8	1.2
10°-20°	637.5	3.2
20°-30°	1110.0	5.6
30°-40°	2000.7	10.1
40°-50°	3968.0	20.1
50°-60°	5405.1	27.4
60°-70°	4314.3	21.8
70°-80°	1952.3	9.9
80°-90°	140.3	0.7
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°	19757.9	100.0
0°-180°	19757.9	100.0

**Coefficient of Utilization**



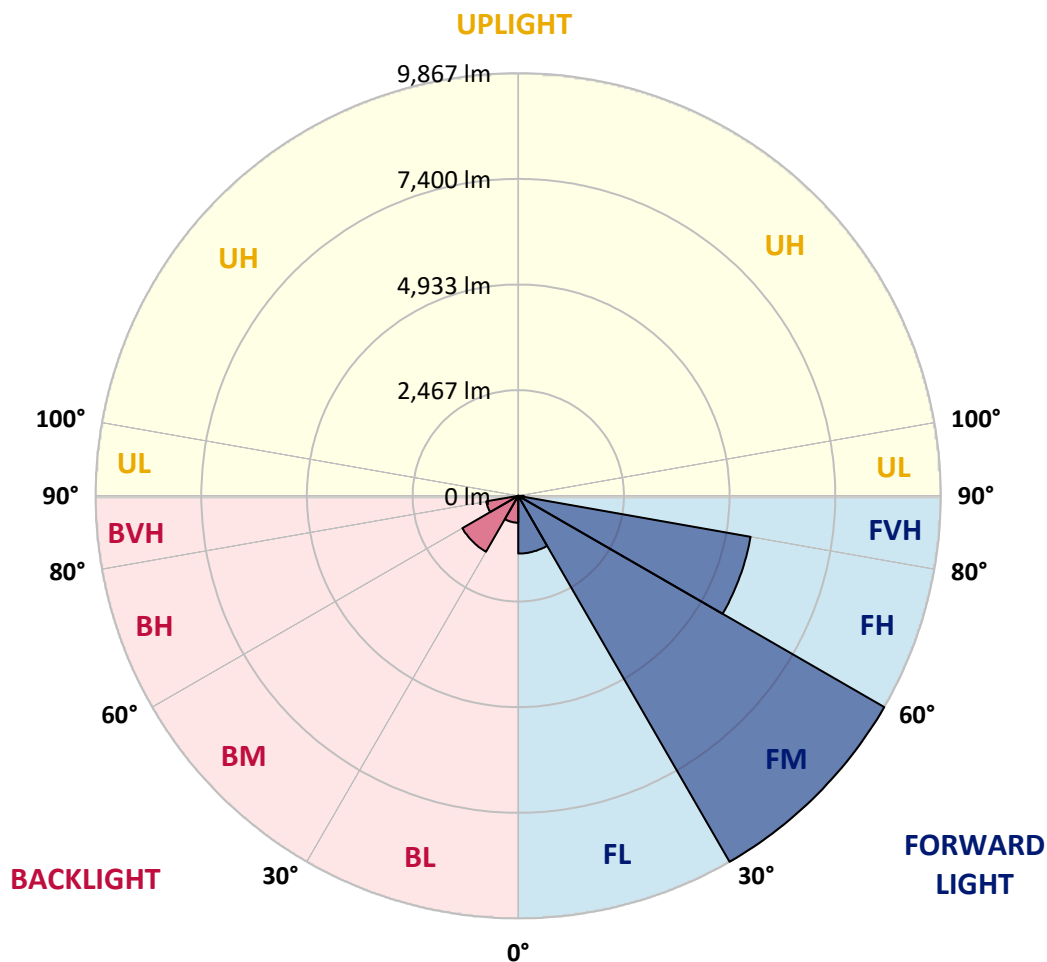
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.7	6.8			
FM (30°-60°)	9866.6	49.9			
FH (60°-80°)	5508.4	27.9			G3/7500
FVH (80°-90°)	129.9	0.7			G2/225
BL (0°-30°)	628.5	3.2	B2/1000		
BM (30°-60°)	1507.1	7.6	B2/2500		
BH (60°-80°)	758.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5
2.5°	2495.6	2488.8	2498.3	2494.2	2491.5	2486.0	2483.4	2480.6	2475.2	2471.1	2454.8
5°	2502.3	2498.3	2507.9	2516.0	2524.2	2532.3	2536.4	2541.8	2536.4	2525.5	2509.2
7.5°	2445.3	2442.6	2463.0	2487.5	2524.2	2555.4	2589.4	2608.4	2609.8	2605.7	2588.0
10°	2441.2	2434.4	2454.8	2484.7	2532.3	2588.0	2647.8	2688.6	2694.0	2711.7	2692.7
12.5°	2505.1	2498.3	2526.8	2559.4	2608.4	2666.8	2740.2	2797.3	2805.5	2829.9	2816.4
15°	2612.5	2603.0	2635.6	2677.7	2740.2	2806.9	2884.4	2936.0	2942.8	2972.7	2948.2
17.5°	2737.6	2728.0	2766.1	2811.0	2878.9	2969.9	3059.7	3116.7	3124.9	3144.0	3099.1
20°	2897.9	2885.7	2915.6	2956.4	3028.4	3137.1	3244.5	3326.1	3324.7	3324.7	3251.3
22.5°	3084.1	3065.2	3091.0	3123.6	3191.5	3323.4	3466.1	3562.6	3562.6	3524.6	3403.6
25°	3284.0	3264.9	3293.4	3323.4	3383.2	3532.7	3699.8	3819.5	3824.9	3759.7	3566.7
27.5°	3534.1	3509.6	3531.3	3566.7	3602.1	3754.3	3952.7	4091.4	4094.1	3993.5	3721.7
30°	4015.2	3945.9	3878.0	3839.9	3856.2	4007.0	4219.1	4372.8	4386.3	4247.7	3890.2
32.5°	4896.0	4882.4	4643.2	4330.6	4167.4	4279.0	4516.8	4701.7	4709.8	4531.7	4109.0
35°	6264.8	6248.5	5863.8	5268.5	4737.0	4643.2	4878.4	5097.2	5091.8	4890.6	4393.2
37.5°	7898.6	7883.7	7376.6	6580.1	5719.7	5193.7	5344.6	5574.3	5608.3	5344.6	4760.1
40°	9294.6	9238.8	8918.0	8150.1	7024.6	6107.2	6007.9	6160.1	6195.5	5882.9	5226.4
42.5°	10352.1	10304.5	10141.3	9661.5	8604.1	7458.2	6789.5	6847.9	6887.3	6512.1	5761.8
45°	10899.8	10889.0	10954.2	10909.4	10213.4	9116.5	7906.7	7663.4	7678.4	7209.4	6369.5
47.5°	10977.3	10971.9	11269.6	11690.9	11597.2	10986.9	9340.8	8680.2	8627.2	7996.4	7030.1
50°	10520.6	10509.7	11080.7	11870.3	12521.4	12558.1	10969.1	9826.1	9709.1	8810.7	7719.2
52.5°	9062.1	9059.5	9997.3	11311.7	12846.3	13933.6	12578.5	11084.7	10889.0	9672.4	8447.7
55°	6973.0	7023.3	8098.4	9652.0	12253.7	14595.7	14023.4	12482.0	12181.6	10539.7	9119.2
57.5°	4939.5	5013.0	6075.9	7459.5	10415.9	14204.1	15000.7	13882.1	13558.5	11404.2	9800.2
60°	2653.2	2718.5	3782.8	5434.2	7749.1	12744.3	15515.8	15097.2	14791.4	12225.1	10414.6
62.5°	1580.9	1602.6	2042.9	3508.3	5241.2	9736.4	15297.0	16022.9	15771.4	12914.3	10948.7
65°	1135.0	1139.1	1360.6	2142.1	3182.0	5915.5	13762.5	16466.0	16388.5	13433.4	11344.3
67.5°	955.5	952.8	1045.3	1423.1	2168.0	2963.2	10547.8	15839.3	16168.4	13762.5	11568.6
70°	819.6	823.7	932.4	1042.5	1629.7	1677.3	5244.0	13791.0	14492.4	13849.4	11555.0
72.5°	610.3	623.9	724.5	950.1	1230.1	1154.0	1810.6	10225.6	11493.8	13048.9	10955.6
75°	430.9	437.7	509.7	799.2	917.5	840.0	924.2	5286.1	6911.8	10004.1	8967.0
77.5°	331.7	343.9	386.0	558.6	903.9	589.9	565.5	1829.5	2811.0	6043.2	6147.8
80°	179.4	201.2	278.7	403.7	634.8	417.3	280.0	728.6	952.8	2825.9	2370.5
82.5°	92.5	103.3	194.3	290.9	361.5	364.3	138.7	303.1	392.8	872.7	324.8
85°	36.7	44.9	130.5	160.4	186.2	179.4	62.5	122.3	141.3	241.9	99.2
87.5°	8.2	13.6	47.6	36.7	35.4	38.0	15.0	28.5	27.2	28.5	17.6
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°	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5	2438.5
2.5°	2453.4	2448.0	2433.0	2416.7	2397.7	2386.8	2380.0	2378.7	2369.2	2362.4	2369.2
5°	2494.2	2488.8	2460.2	2426.3	2389.6	2361.0	2333.8	2309.3	2274.1	2267.2	2264.5
7.5°	2575.8	2560.9	2514.6	2468.4	2399.1	2316.2	2215.5	2100.0	1996.7	1965.4	1950.6
10°	2676.4	2656.0	2597.6	2516.0	2362.4	2136.7	1893.5	1667.8	1488.4	1438.1	1419.0
12.5°	2790.6	2772.8	2695.4	2544.6	2208.8	1799.7	1427.2	1147.2	973.2	929.8	917.5
15°	2926.5	2900.6	2793.2	2501.0	1934.2	1367.5	980.0	814.2	751.6	743.5	735.3
17.5°	3070.6	3028.4	2880.2	2344.7	1564.5	971.9	757.1	709.5	682.3	674.1	670.1
20°	3202.4	3148.0	2931.9	2108.2	1168.9	757.1	678.2	647.0	622.6	613.1	607.6
22.5°	3334.2	3256.7	2931.9	1786.1	876.7	671.5	622.6	594.0	565.5	553.2	546.4
25°	3471.6	3368.3	2880.2	1427.2	705.4	615.7	569.5	538.2	513.8	498.9	493.4
27.5°	3604.7	3462.0	2762.0	1087.4	628.0	566.8	520.6	490.7	467.6	456.7	456.7
30°	3731.1	3554.5	2596.2	825.0	577.7	519.3	475.7	449.9	426.8	415.9	417.3
32.5°	3902.4	3671.3	2419.5	676.9	534.2	474.4	435.0	410.5	390.1	381.9	381.9
35°	4140.3	3844.0	2267.2	664.7	497.5	437.7	398.2	375.2	354.8	348.0	348.0
37.5°	4477.4	4122.7	2187.0	746.2	467.6	405.1	368.4	343.9	324.8	319.4	318.1
40°	4893.3	4500.5	2230.5	827.8	447.2	376.5	341.2	316.7	300.4	293.6	292.2
42.5°	5386.7	4966.7	2471.1	890.3	433.6	352.1	315.4	288.1	277.3	274.6	274.6
45°	5953.5	5479.1	2839.5	956.9	411.8	328.9	289.6	269.2	261.0	259.6	258.3
47.5°	6597.8	6041.9	3266.3	1039.9	390.1	307.2	269.2	255.5	248.8	246.0	246.0
50°	7236.7	6608.7	3705.3	1086.1	372.5	286.8	252.9	241.9	236.5	235.1	235.1
52.5°	7905.4	7191.8	4060.1	1042.5	357.5	270.5	239.2	231.0	225.6	224.3	224.3
55°	8542.9	7663.4	4121.2	884.9	327.6	254.2	224.3	220.2	213.4	213.4	212.1
57.5°	9092.1	7900.0	3689.0	649.7	297.7	229.7	209.3	205.2	199.8	198.4	197.1
60°	9596.4	7832.0	2847.7	437.7	265.1	205.2	190.3	187.6	182.1	175.4	173.9
62.5°	9880.4	7532.9	1947.8	285.5	232.5	179.4	168.5	167.2	155.0	141.3	138.7
65°	9987.8	6918.5	1215.1	208.0	194.3	153.5	145.4	142.7	125.0	110.1	108.8
67.5°	9894.0	5907.3	613.1	164.5	153.5	127.8	119.6	119.6	107.4	93.8	92.5
70°	9518.9	4428.4	258.3	131.8	118.3	97.9	97.9	103.3	91.0	76.2	74.7
72.5°	8704.6	2979.5	137.2	100.6	88.4	69.3	80.2	84.3	72.1	57.1	57.1
75°	6920.0	1817.3	95.1	74.7	55.8	48.9	61.2	63.9	48.9	38.0	36.7
77.5°	4732.9	1043.9	63.9	47.6	35.4	28.5	42.1	39.5	25.8	17.6	19.1
80°	2078.3	435.0	36.7	21.7	13.6	10.9	15.0	10.9	8.2	5.4	5.4
82.5°	243.3	102.0	13.6	8.2	5.4	2.8	1.3	0.0	0.0	0.0	0.0
85°	50.3	12.2	6.8	2.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.8	1.3	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)