

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: P966583

Luminaire Tested: **NAV-SB4C-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21517.8 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

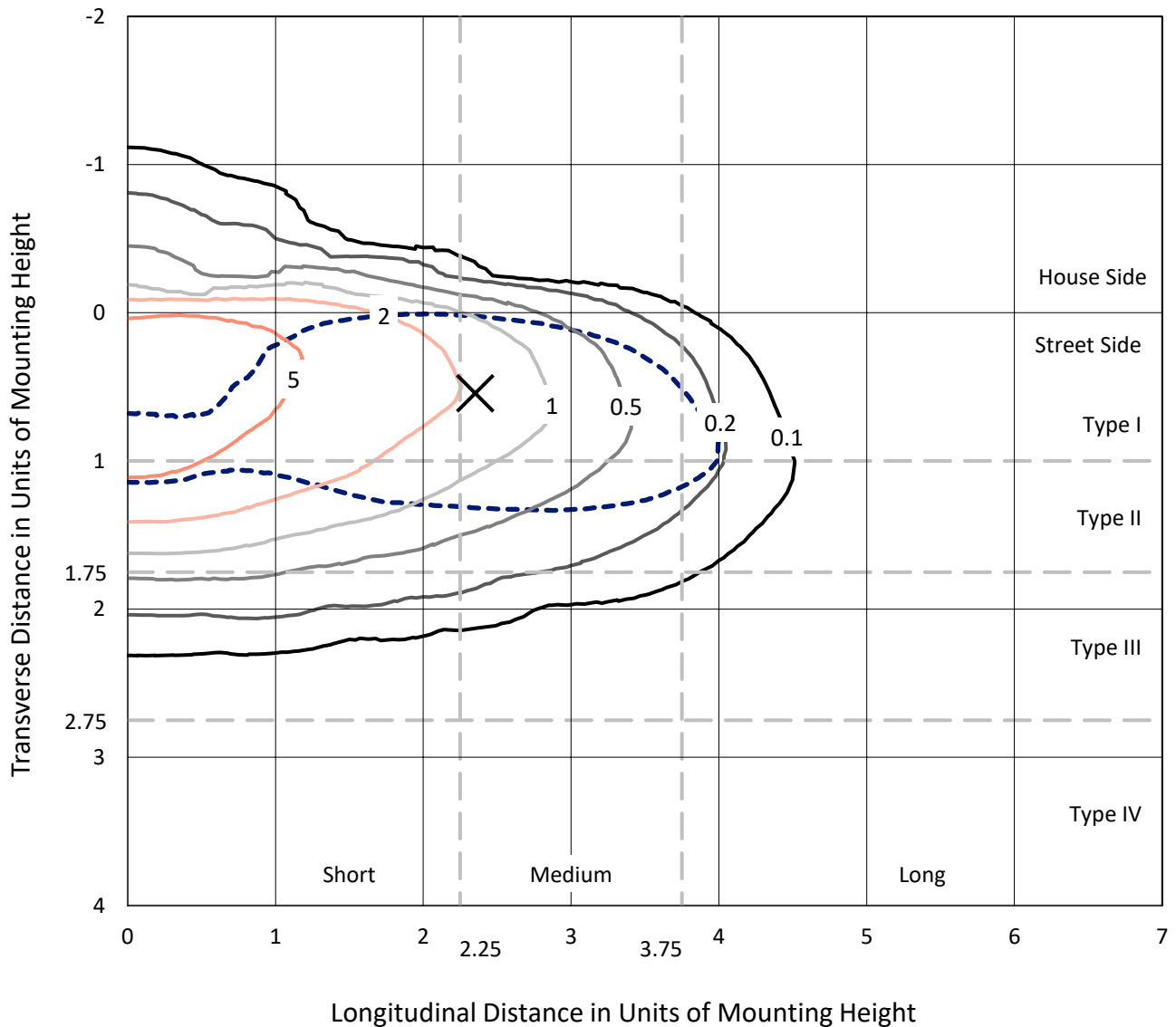
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

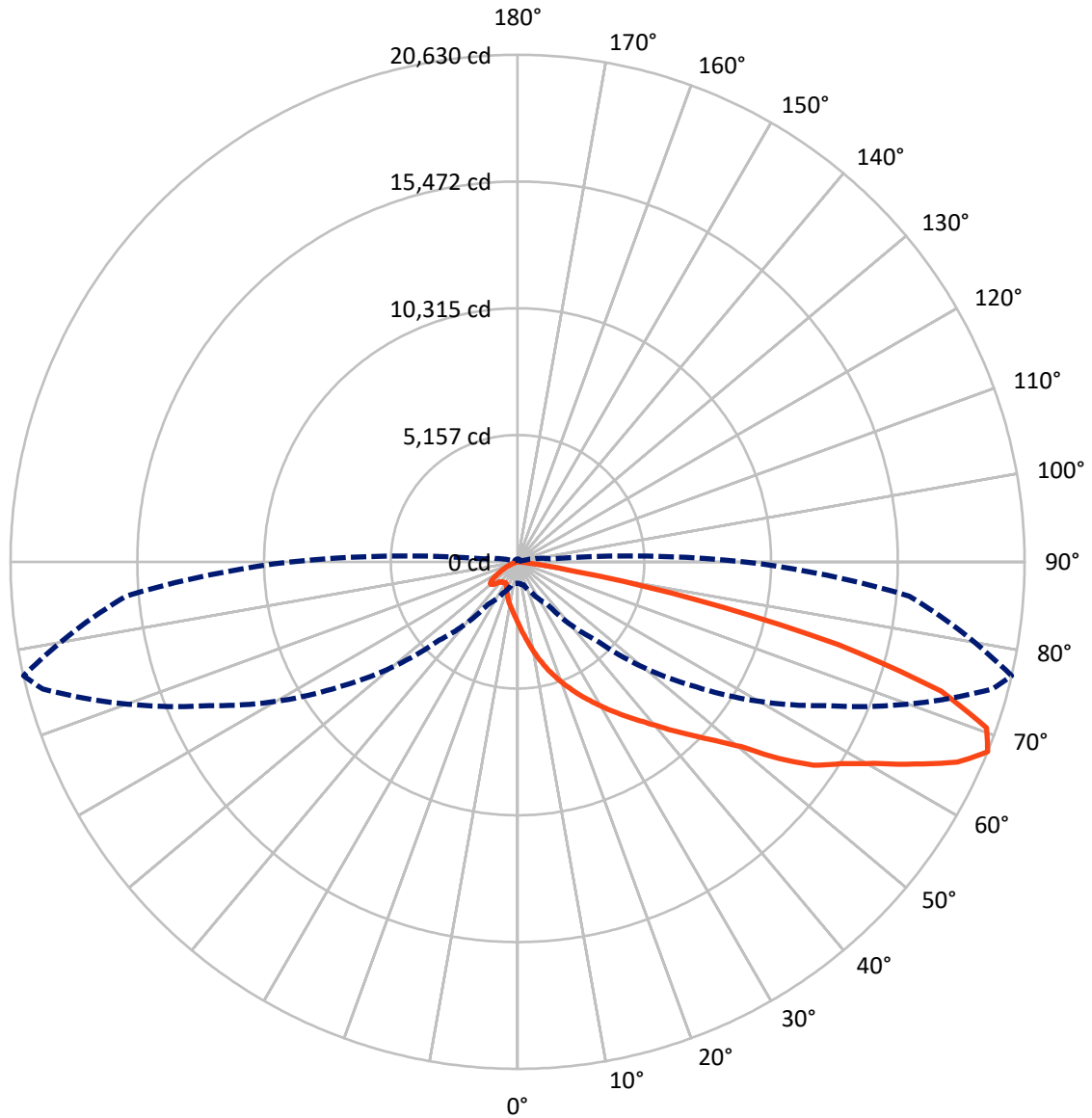
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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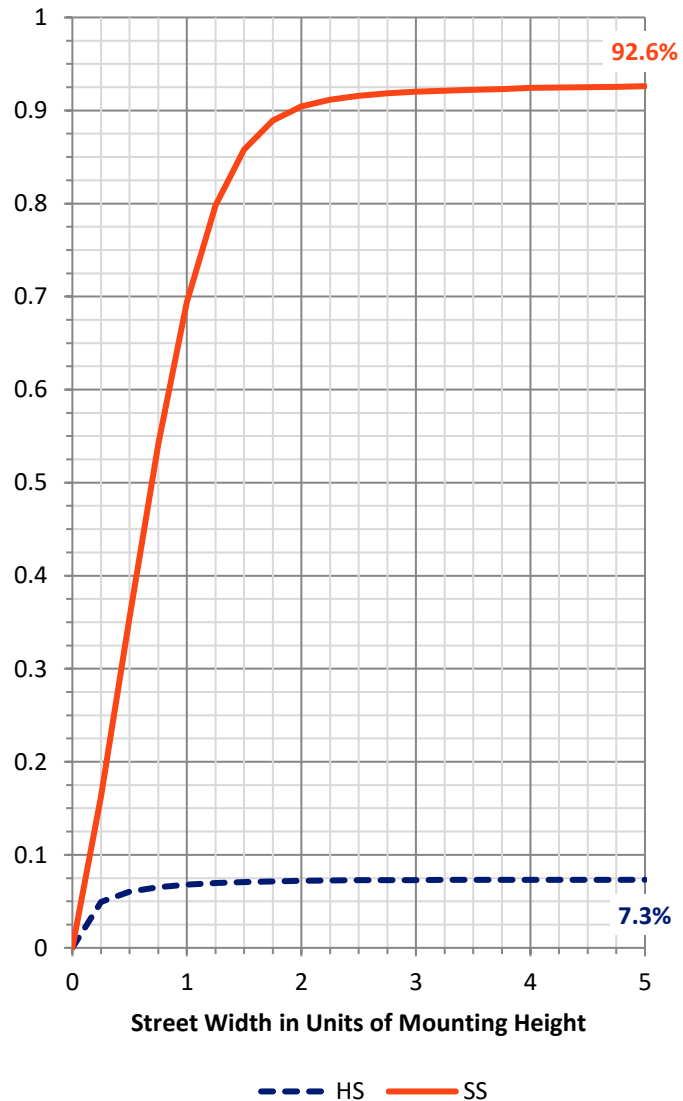
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1583.1	0.0	1583.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	19934.7	0.0	19934.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	21517.8	0.0	21517.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	1.2
10°-20°	886.9	4.1
20°-30°	1711.4	8.0
30°-40°	2971.2	13.8
40°-50°	4314.0	20.0
50°-60°	4954.1	23.0
60°-70°	4301.0	20.0
70°-80°	2025.8	9.4
80°-90°	100.2	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°	21517.8	100.0
0°-180°	21517.8	100.0

Coefficient of Utilization

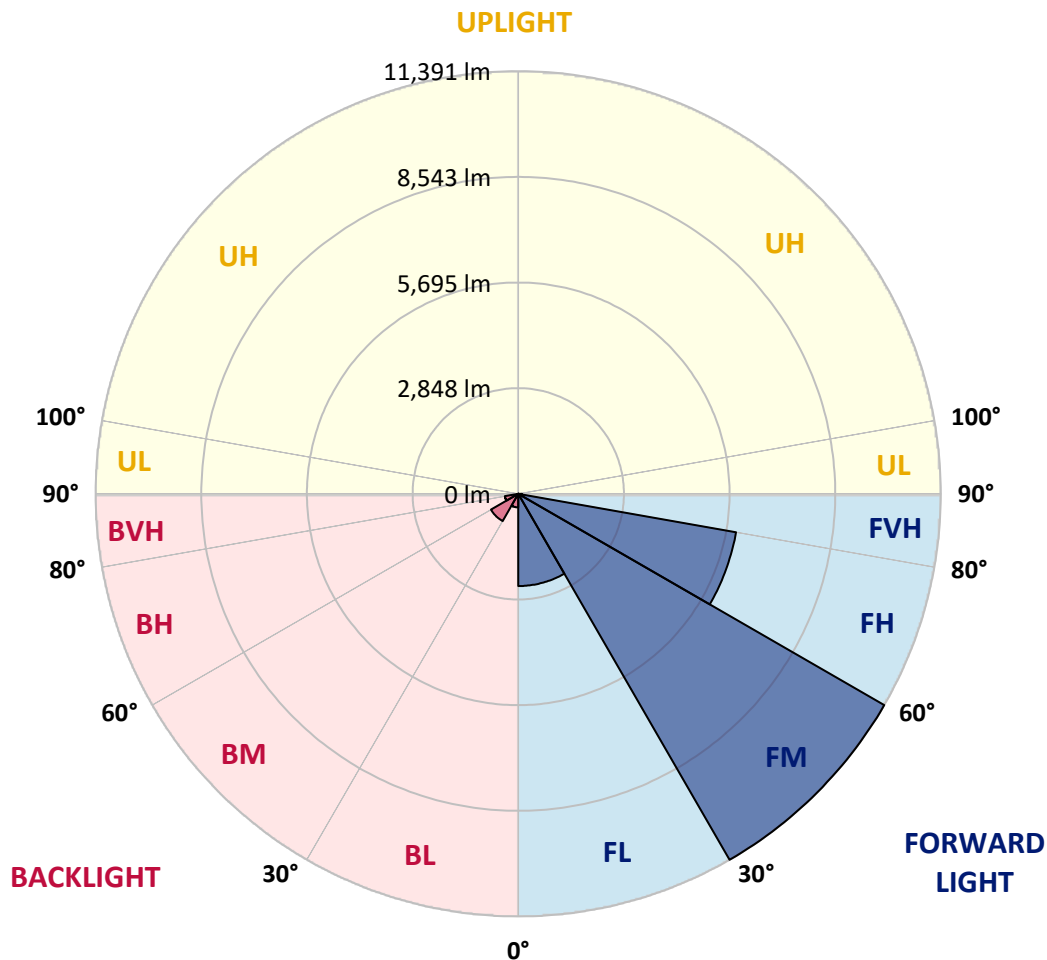


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2485.1	11.5			
FM (30°-60°)	11391.0	52.9			
FH (60°-80°)	5960.4	27.7			G3/7500
FVH (80°-90°)	98.3	0.5			G1/100
BL (0°-30°)	366.5	1.7	B1/500		
BM (30°-60°)	848.2	3.9	B1/1000		
BH (60°-80°)	366.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3
2.5°	3435.4	3456.7	3426.1	3367.2	3279.1	3221.6	3081.3	2949.0	2802.0	2755.2	2608.2
5°	4187.6	4206.4	4171.6	4107.5	3989.9	3877.7	3693.3	3416.6	3129.4	3037.2	2776.6
7.5°	4744.8	4755.5	4742.2	4683.3	4571.1	4444.2	4238.4	3911.1	3484.8	3383.2	2983.8
10°	5145.7	5180.5	5176.5	5153.7	5078.9	4976.0	4756.8	4384.0	3883.0	3752.0	3217.6
12.5°	5411.6	5450.3	5473.1	5523.8	5519.8	5454.3	5261.9	4867.7	4279.9	4126.1	3480.8
15°	5489.1	5530.5	5617.4	5735.0	5839.2	5872.6	5737.6	5342.1	4716.7	4520.4	3750.7
17.5°	5445.0	5509.2	5613.4	5799.1	6027.6	6178.6	6163.8	5800.5	5113.6	4889.1	4015.2
20°	5542.6	5604.0	5685.6	5841.9	6107.8	6381.6	6491.2	6238.7	5507.8	5272.6	4293.2
22.5°	6082.3	6071.7	6079.7	6105.1	6264.1	6535.4	6761.2	6636.9	5898.0	5657.5	4587.2
25°	6937.5	6889.4	6807.9	6670.3	6630.2	6761.2	6996.3	6989.7	6309.5	6051.6	4887.8
27.5°	7918.3	7910.3	7719.2	7387.9	7200.7	7150.0	7262.2	7333.1	6717.0	6441.8	5189.8
30°	8857.6	8879.1	8621.2	8252.4	7909.0	7709.8	7608.3	7659.1	7131.3	6862.7	5501.2
32.5°	9675.4	9698.1	9417.5	8986.0	8561.0	8320.5	8106.7	7981.2	7582.9	7290.3	5843.2
35°	10366.2	10389.0	10066.9	9589.9	9137.0	8919.1	8677.2	8333.9	8037.2	7764.7	6224.0
37.5°	10983.6	10976.8	10545.3	10064.3	9619.3	9446.9	9320.0	8768.2	8504.9	8241.7	6646.3
40°	11348.3	11376.4	11007.6	10477.1	10045.5	9919.9	9912.0	9306.6	9044.7	8789.5	7108.6
42.5°	11455.2	11504.7	11237.4	10801.9	10410.3	10274.0	10483.8	9889.2	9672.7	9424.3	7631.0
45°	11262.8	11310.9	11189.3	10887.3	10658.9	10570.6	10975.5	10493.1	10343.5	10097.7	8220.3
47.5°	10701.6	10761.8	10791.1	10727.0	10724.4	10813.9	11416.4	11129.2	11139.9	10888.7	8903.0
50°	9615.3	9716.8	9986.8	10213.9	10565.3	11006.2	11845.4	11818.7	12037.8	11821.3	9793.0
52.5°	7640.4	7784.7	8714.7	9336.0	10125.7	10970.2	12317.1	12925.0	13613.2	13296.5	11047.7
55°	6139.9	6139.9	6896.1	8058.7	9267.8	10732.4	12522.8	13643.9	14686.2	14611.4	11930.9
57.5°	5005.4	5065.5	5547.9	6575.5	8026.6	10165.8	12649.8	14095.6	15550.7	15496.0	12794.2
60°	3089.2	3218.9	4130.2	5144.4	6614.2	9156.9	12569.6	14552.5	16599.6	16643.7	13833.7
62.5°	1739.7	1787.8	2194.0	3701.3	5143.0	7800.8	11956.3	14807.8	17941.2	18128.3	14905.3
65°	1201.2	1225.3	1381.6	2303.6	3565.0	6210.7	10757.8	14648.8	19285.4	19663.5	15813.9
67.5°	872.6	884.6	982.2	1407.0	2115.2	4503.0	8879.1	13847.0	19997.5	20629.6	15987.6
70°	670.8	678.8	749.6	924.7	1249.4	2779.3	6448.5	12253.0	19481.8	20236.8	15097.7
72.5°	545.2	553.2	607.9	684.1	828.4	1643.5	3908.4	9950.7	17204.9	18020.0	12852.9
75°	459.6	470.4	519.8	569.2	649.4	1055.6	1833.3	6929.5	12938.4	13472.9	8937.8
77.5°	255.2	235.1	422.2	471.7	547.9	668.1	857.8	4078.1	7246.2	7394.6	3965.8
80°	159.0	164.3	335.4	379.5	420.9	336.7	392.9	1570.0	2512.1	2386.4	768.3
82.5°	9.3	21.4	257.9	273.9	288.6	144.3	148.3	533.1	605.3	555.9	136.3
85°	0.0	0.0	117.6	94.9	100.2	41.4	42.7	124.2	81.5	88.1	26.8
87.5°	0.0	0.0	0.0	2.7	0.0	4.0	8.0	10.7	4.0	5.3	9.3
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°	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3
2.5°	2514.7	2421.2	2231.4	2045.7	1894.7	1754.4	1654.2	1559.3	1511.3	1508.6	1505.9
5°	2590.9	2394.5	2014.9	1679.6	1409.7	1193.2	1052.9	952.7	901.9	884.6	881.9
7.5°	2697.8	2402.5	1825.2	1358.9	1040.9	855.2	775.0	742.9	732.3	720.2	717.5
10°	2832.8	2421.2	1655.6	1094.4	820.4	726.9	694.8	681.4	673.4	665.4	662.8
12.5°	2983.8	2438.6	1487.2	908.7	721.5	673.4	650.8	634.7	624.0	614.7	612.0
15°	3130.8	2449.2	1312.1	779.0	670.8	632.0	607.9	590.6	575.9	565.2	563.9
17.5°	3276.3	2464.0	1147.8	701.5	629.3	590.6	566.5	545.2	533.1	521.1	519.8
20°	3438.1	2461.2	992.8	646.7	587.9	549.2	523.8	503.8	491.7	478.4	477.0
22.5°	3587.7	2447.9	856.5	599.9	545.2	507.8	479.7	459.6	447.6	437.0	435.6
25°	3760.1	2437.2	742.9	557.2	505.1	467.7	437.0	418.2	404.9	395.5	394.2
27.5°	3925.7	2421.2	660.1	518.4	466.4	430.3	400.9	379.5	367.5	360.8	360.8
30°	4088.7	2417.2	629.3	481.0	431.6	395.5	366.1	346.0	336.7	334.0	332.7
32.5°	4285.2	2427.9	642.7	467.7	399.5	363.5	335.4	320.7	311.3	311.3	311.3
35°	4494.9	2425.1	662.8	479.7	378.1	331.4	310.0	300.6	291.3	291.3	291.3
37.5°	4758.3	2429.2	678.8	499.7	370.1	304.6	292.6	280.6	275.2	275.2	275.2
40°	5151.0	2561.5	670.8	517.1	367.5	286.0	261.9	257.9	253.9	253.9	253.9
42.5°	5632.1	2848.8	681.4	518.4	366.1	272.5	240.5	248.6	239.1	237.8	236.5
45°	6158.5	3162.7	749.6	490.4	364.8	265.9	229.8	239.1	224.5	224.5	224.5
47.5°	6681.0	3474.1	819.1	450.3	360.8	264.6	220.5	215.1	211.2	212.5	212.5
50°	7401.2	3728.0	845.8	395.5	351.4	261.9	203.1	204.5	201.7	204.5	204.5
52.5°	8185.5	3781.4	813.7	334.0	324.7	253.9	191.1	196.4	195.1	197.7	197.7
55°	8674.6	3724.0	672.1	278.0	283.3	221.8	179.1	189.7	189.7	189.7	189.7
57.5°	9179.7	3479.5	477.0	225.8	235.1	181.7	168.4	183.1	181.7	180.4	180.4
60°	9543.2	3083.9	314.0	185.7	187.1	149.6	156.3	172.4	171.1	164.3	164.3
62.5°	9814.4	2647.0	201.7	157.6	143.0	135.0	143.0	156.3	151.0	136.3	133.7
65°	9783.6	2041.7	155.0	135.0	117.6	117.6	124.2	136.3	120.2	96.2	93.6
67.5°	9213.1	1381.6	128.2	113.6	98.9	97.6	102.9	113.6	102.9	81.5	78.8
70°	8193.5	903.2	102.9	88.1	78.8	72.2	82.8	97.6	86.8	65.5	62.8
72.5°	6650.3	550.5	77.5	64.2	57.5	46.7	65.5	80.2	69.5	48.1	45.4
75°	4302.5	280.6	53.4	41.4	30.7	28.1	48.1	60.2	48.1	29.4	25.4
77.5°	1646.2	117.6	29.4	18.8	16.0	13.3	26.8	36.1	20.1	6.7	5.3
80°	316.7	49.4	14.7	9.3	8.0	5.3	4.0	2.7	0.0	0.0	0.0
82.5°	54.7	16.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	0.0	0.0	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)