

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: P970810

Luminaire Tested: **NAV-SB6C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29620.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

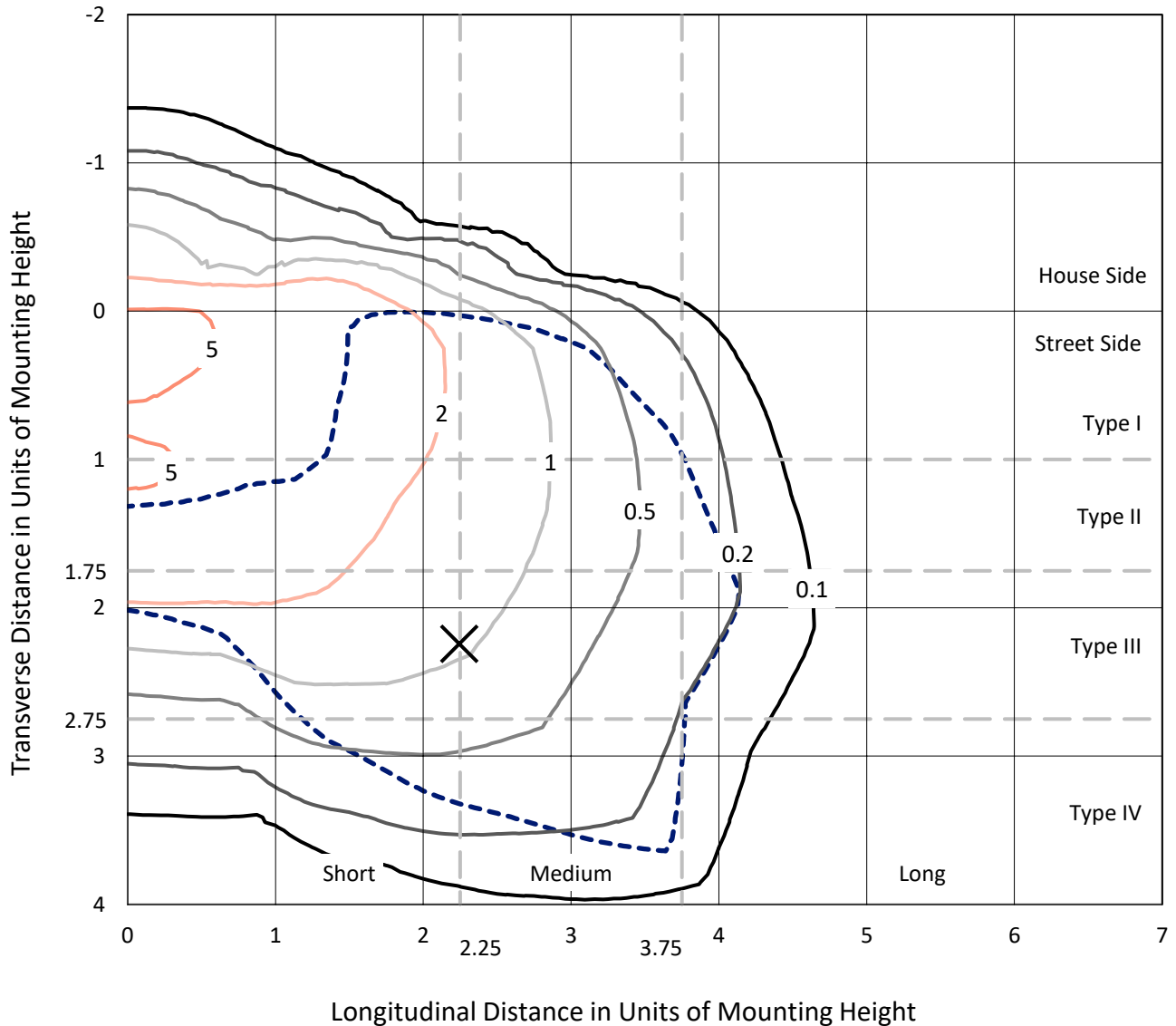
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

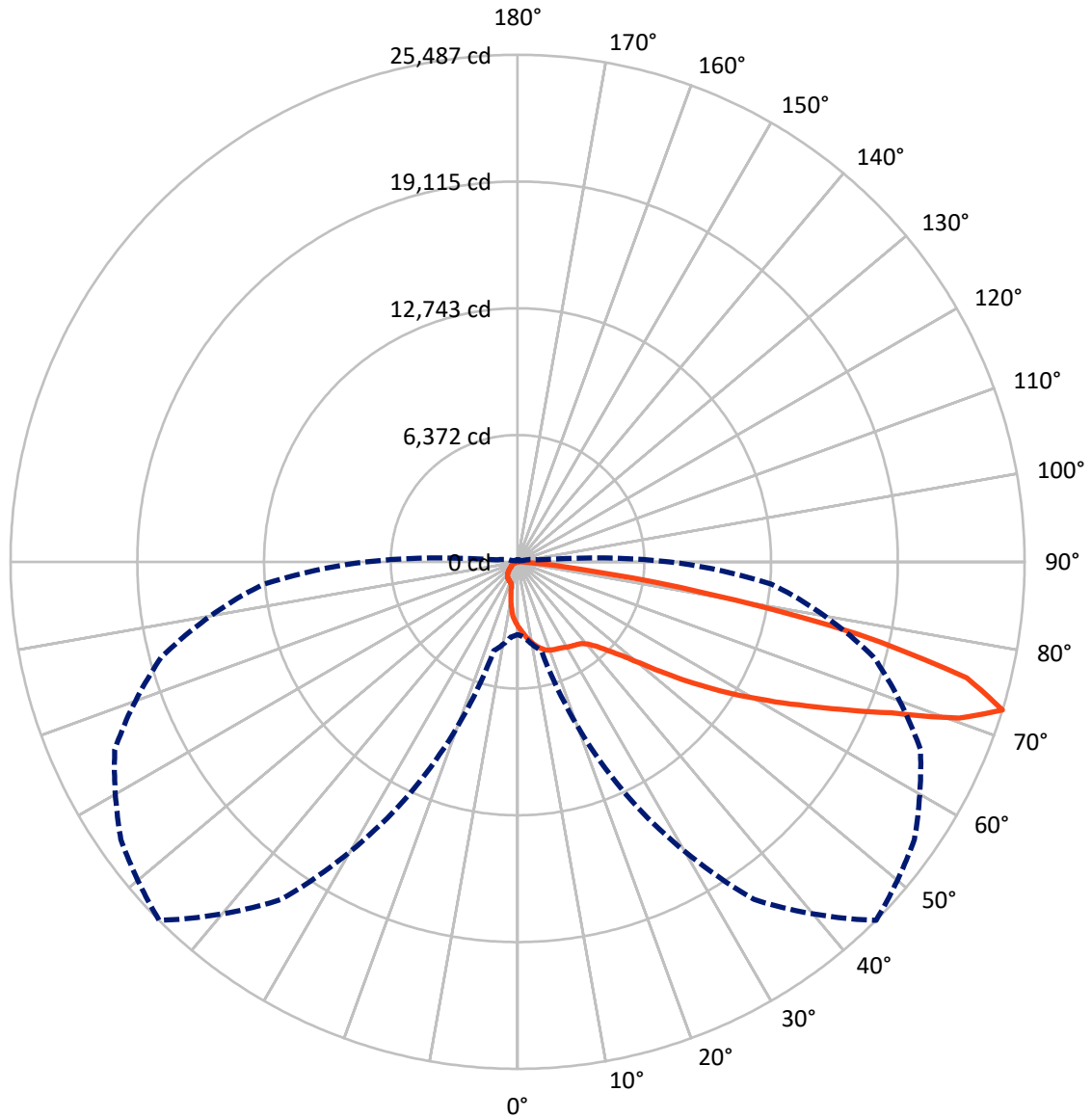
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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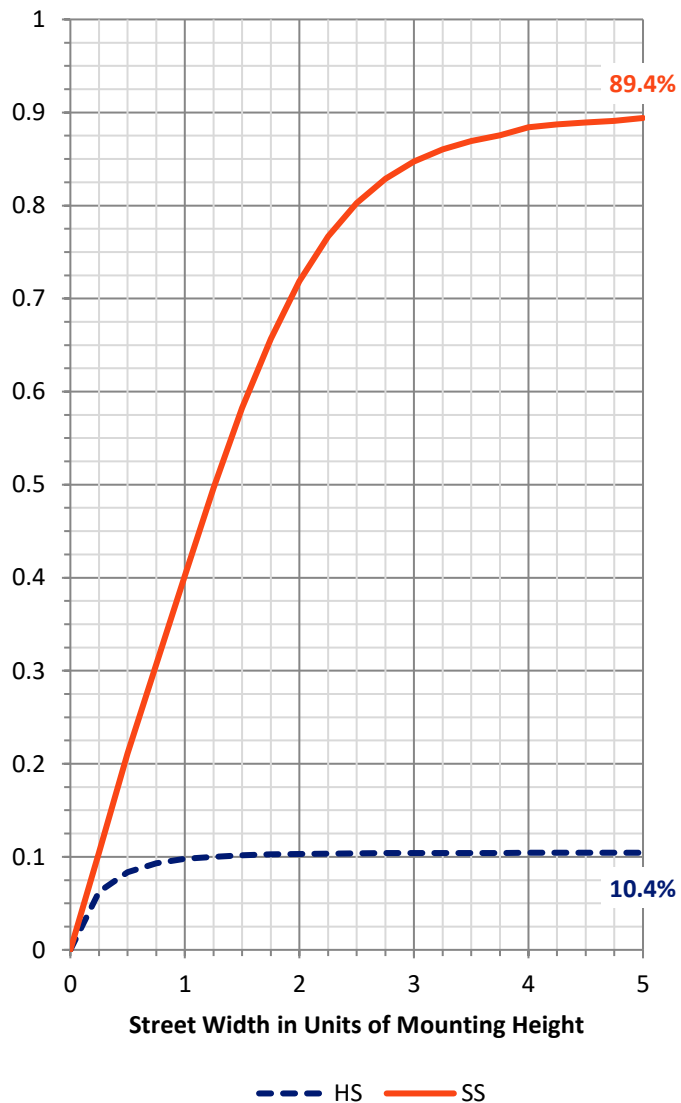
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3112.3	0.0	3112.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26508.2	0.0	26508.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	29620.4	0.0	29620.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	1.0
10°-20°	893.6	3.0
20°-30°	1467.4	5.0
30°-40°	2081.1	7.0
40°-50°	3439.8	11.6
50°-60°	6179.2	20.9
60°-70°	8580.1	29.0
70°-80°	6223.7	21.0
80°-90°	449.9	1.5
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°	29620.4	100.0
0°-180°	29620.4	100.0

Coefficient of Utilization

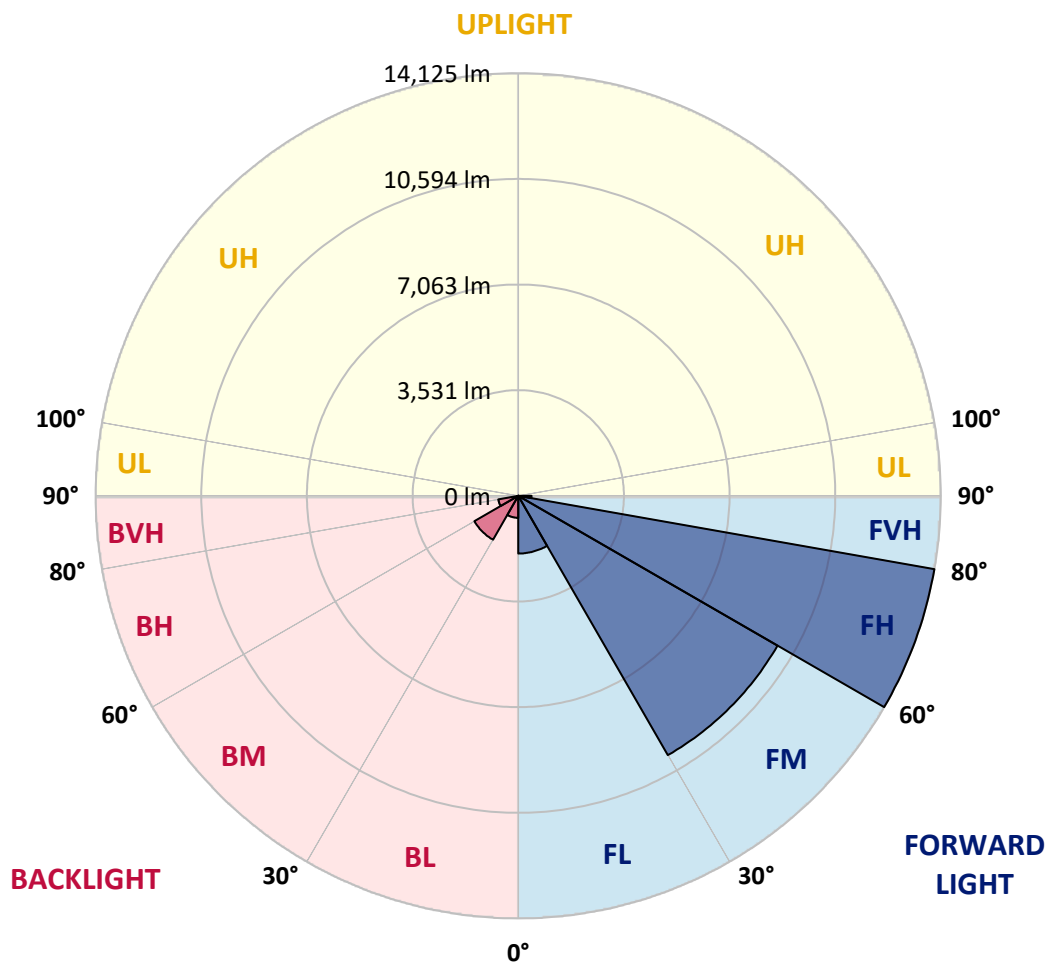


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.5	6.5			
FM (30°-60°)	10007.4	33.8			
FH (60°-80°)	14125.1	47.7			G5
FVH (80°-90°)	446.2	1.5			G3/500
BL (0°-30°)	737.2	2.5	B2/1000		
BM (30°-60°)	1692.6	5.7	B2/2500		
BH (60°-80°)	678.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9
2.5°	3544.2	3550.3	3546.2	3522.0	3481.5	3459.3	3447.2	3406.7	3380.4	3333.9	3285.4
5°	3869.7	3894.0	3879.8	3831.3	3754.5	3699.8	3683.7	3600.8	3526.0	3439.1	3338.0
7.5°	4215.4	4227.6	4201.3	4138.6	4035.5	3942.5	3928.3	3813.1	3693.8	3560.3	3422.9
10°	4514.7	4528.9	4488.4	4397.5	4280.1	4164.9	4144.7	4017.3	3875.8	3712.0	3536.1
12.5°	4765.3	4779.6	4727.0	4617.8	4488.4	4369.1	4348.9	4215.4	4059.7	3877.8	3659.5
15°	4955.5	4981.7	4911.0	4793.7	4654.2	4534.9	4524.8	4393.4	4241.8	4039.5	3807.1
17.5°	5066.6	5092.9	5026.2	4884.6	4765.3	4664.3	4652.2	4543.0	4401.5	4207.3	3950.6
20°	5084.8	5109.1	5038.3	4915.0	4816.0	4735.1	4728.9	4650.1	4547.0	4361.0	4106.3
22.5°	5030.2	5060.5	4995.8	4896.8	4828.1	4785.6	4777.5	4733.0	4674.4	4516.7	4251.8
25°	4973.6	4997.9	4949.3	4862.4	4826.0	4822.0	4828.1	4820.0	4807.9	4674.4	4421.6
27.5°	4969.6	4995.8	4941.3	4858.4	4838.2	4880.6	4886.7	4925.1	4935.2	4817.9	4585.4
30°	5003.9	5022.2	4969.6	4882.6	4872.5	4969.6	4971.6	5040.3	5056.5	4939.3	4747.2
32.5°	5078.8	5099.0	5046.4	4919.1	4904.8	5040.3	5046.4	5137.4	5163.6	5068.6	4917.0
35°	5254.7	5279.0	5218.3	5020.1	4969.6	5107.1	5125.2	5232.4	5285.0	5206.1	5092.9
37.5°	5693.4	5622.6	5539.7	5224.3	5117.2	5212.2	5242.6	5367.8	5460.9	5369.9	5303.1
40°	6783.1	6560.7	6301.9	5572.1	5375.9	5436.6	5460.9	5586.2	5713.6	5624.7	5592.3
42.5°	8418.7	8155.9	7739.5	6372.7	5766.1	5796.5	5814.7	5923.9	6103.8	6033.0	6041.1
45°	9876.5	9781.5	9356.9	7739.5	6496.0	6346.4	6368.6	6425.3	6690.2	6663.8	6716.4
47.5°	10996.5	10942.0	10614.4	9308.3	7729.3	7019.7	7082.3	7108.7	7490.8	7583.8	7725.3
50°	11857.8	11837.6	11544.5	10703.4	9340.7	8012.4	8034.7	7978.0	8550.1	8780.7	9049.5
52.5°	12670.6	12739.3	12523.0	11999.4	11061.3	9312.4	9308.3	9041.4	9813.8	10161.5	10620.5
55°	13404.5	13428.7	13451.0	13321.6	12791.9	10792.3	10753.9	10317.2	11279.6	11639.5	12136.8
57.5°	14094.0	14104.1	14302.2	14567.0	14593.3	12381.5	12310.8	11787.1	12880.9	13137.6	13442.9
60°	14556.9	14603.5	15022.0	15757.8	16079.4	14021.2	13982.7	13449.0	14510.4	14629.7	14573.1
62.5°	13889.8	14172.8	15228.2	16687.9	17482.5	15838.7	15820.6	15319.1	16224.9	16127.9	15642.6
65°	11243.2	11722.4	13578.4	17316.7	18859.3	17868.6	17895.0	17361.1	17985.9	17670.5	16512.0
67.5°	7864.8	8370.3	10565.9	17367.2	20397.9	20252.4	20404.0	19566.9	19856.1	19148.4	16718.3
70°	5438.6	5699.4	7128.9	16279.5	21596.9	23535.7	23531.6	22276.1	21716.2	19821.7	15666.9
72.5°	3657.4	3792.9	4629.9	12915.2	20715.4	25486.7	25369.5	24346.5	22342.8	18537.8	12800.0
75°	1542.6	1641.7	2143.1	7258.2	16388.7	23317.4	23000.0	21516.0	19852.0	14597.3	7986.1
77.5°	489.2	531.8	845.1	2598.0	9027.3	17527.0	17191.3	13436.8	13305.4	7322.9	2919.5
80°	232.5	270.9	475.1	1043.2	3552.3	9532.8	9486.3	6095.7	5723.7	1977.3	586.3
82.5°	101.1	119.3	262.8	558.0	1589.2	3400.6	3469.4	2074.4	1716.5	750.1	180.0
85°	32.4	42.4	121.3	256.8	671.3	845.1	835.0	493.3	691.5	408.4	62.6
87.5°	0.0	0.0	40.4	58.6	68.8	48.5	54.6	42.4	192.1	113.3	22.2
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°	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9	3244.9
2.5°	3261.1	3228.9	3172.2	3119.6	3073.2	3026.6	2998.3	2957.8	2953.8	2953.8	2964.0
5°	3283.4	3230.8	3129.7	3022.6	2899.2	2782.0	2664.7	2551.5	2515.1	2488.8	2501.0
7.5°	3348.1	3265.2	3105.4	2901.3	2666.7	2410.0	2230.1	2036.0	1961.1	1920.7	1926.8
10°	3441.1	3327.9	3085.2	2727.4	2347.4	1997.5	1740.8	1530.5	1449.7	1415.2	1415.2
12.5°	3544.2	3404.7	3048.9	2511.0	1997.5	1579.0	1328.3	1231.2	1219.1	1219.1	1219.1
15°	3667.6	3497.7	2986.2	2256.3	1631.6	1249.5	1160.5	1164.6	1176.7	1184.8	1184.8
17.5°	3795.0	3596.7	2887.1	1971.3	1308.1	1124.1	1126.2	1132.2	1142.4	1150.4	1150.4
20°	3932.4	3695.8	2755.7	1668.0	1122.1	1087.7	1093.8	1099.8	1107.9	1112.0	1114.0
22.5°	4080.0	3788.8	2600.0	1370.7	1059.4	1057.4	1059.4	1065.5	1075.6	1075.6	1079.6
25°	4237.7	3891.9	2422.1	1154.5	1027.0	1027.0	1031.1	1035.1	1043.2	1043.2	1045.3
27.5°	4399.4	3986.9	2234.1	1041.2	998.8	996.7	996.7	1002.9	1006.9	1008.9	1010.9
30°	4577.3	4098.2	2046.1	1017.0	976.5	966.4	960.3	964.4	968.4	970.5	974.5
32.5°	4759.3	4205.4	1878.2	1027.0	954.3	936.1	915.8	911.8	911.8	919.9	926.0
35°	4961.5	4322.6	1748.9	1061.5	942.2	891.6	859.3	841.1	843.1	855.3	861.3
37.5°	5204.1	4464.1	1653.8	1091.7	934.1	841.1	788.5	766.3	752.1	766.3	762.2
40°	5521.6	4672.4	1585.1	1116.0	923.9	782.5	711.7	675.3	649.0	657.1	653.0
42.5°	5988.6	5000.0	1558.8	1118.1	901.7	713.7	632.8	584.2	545.9	547.9	539.9
45°	6643.6	5517.5	1694.2	1091.7	853.2	638.9	549.9	485.2	460.9	454.9	446.8
47.5°	7541.3	6271.6	2007.7	1037.2	782.5	566.1	469.0	414.5	396.3	386.1	380.1
50°	8744.3	7240.1	2355.3	976.5	711.7	497.3	402.3	368.0	355.9	345.7	343.7
52.5°	10139.3	8222.7	2640.5	915.8	640.9	436.8	359.9	339.7	329.5	321.4	319.5
55°	11419.1	8900.0	2624.3	851.2	572.2	388.2	329.5	317.4	305.2	297.2	293.2
57.5°	12215.7	8995.0	2163.4	780.4	493.3	349.7	301.2	293.2	279.0	268.9	266.9
60°	12581.7	8453.2	1516.4	687.4	414.5	313.3	270.9	266.9	248.7	234.5	230.5
62.5°	12648.4	7446.3	1010.9	572.2	345.7	279.0	240.6	234.5	210.2	186.0	173.8
65°	12377.4	6006.8	699.6	446.8	295.2	242.6	206.2	194.1	167.8	143.5	135.5
67.5°	11520.2	4217.5	487.3	321.4	250.7	192.1	163.8	159.7	139.5	119.3	113.3
70°	9949.3	2403.9	325.5	240.6	198.1	131.4	129.4	133.5	113.3	97.1	89.0
72.5°	7628.3	1099.8	202.1	175.9	135.5	89.0	103.1	105.2	86.9	72.8	64.7
75°	4490.4	471.1	127.4	113.3	68.8	58.6	74.8	76.9	58.6	46.5	40.4
77.5°	1528.5	177.9	80.9	66.7	34.3	32.4	48.5	48.5	32.4	18.2	14.1
80°	347.8	66.7	40.4	26.2	16.2	14.1	16.2	14.1	8.1	2.0	0.0
82.5°	99.1	26.2	16.2	10.1	6.0	6.0	2.0	0.0	0.0	0.0	0.0
85°	28.3	12.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	2.0	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)