

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: P885489

Luminaire Tested: **NAV-SB6D-750-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66636 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

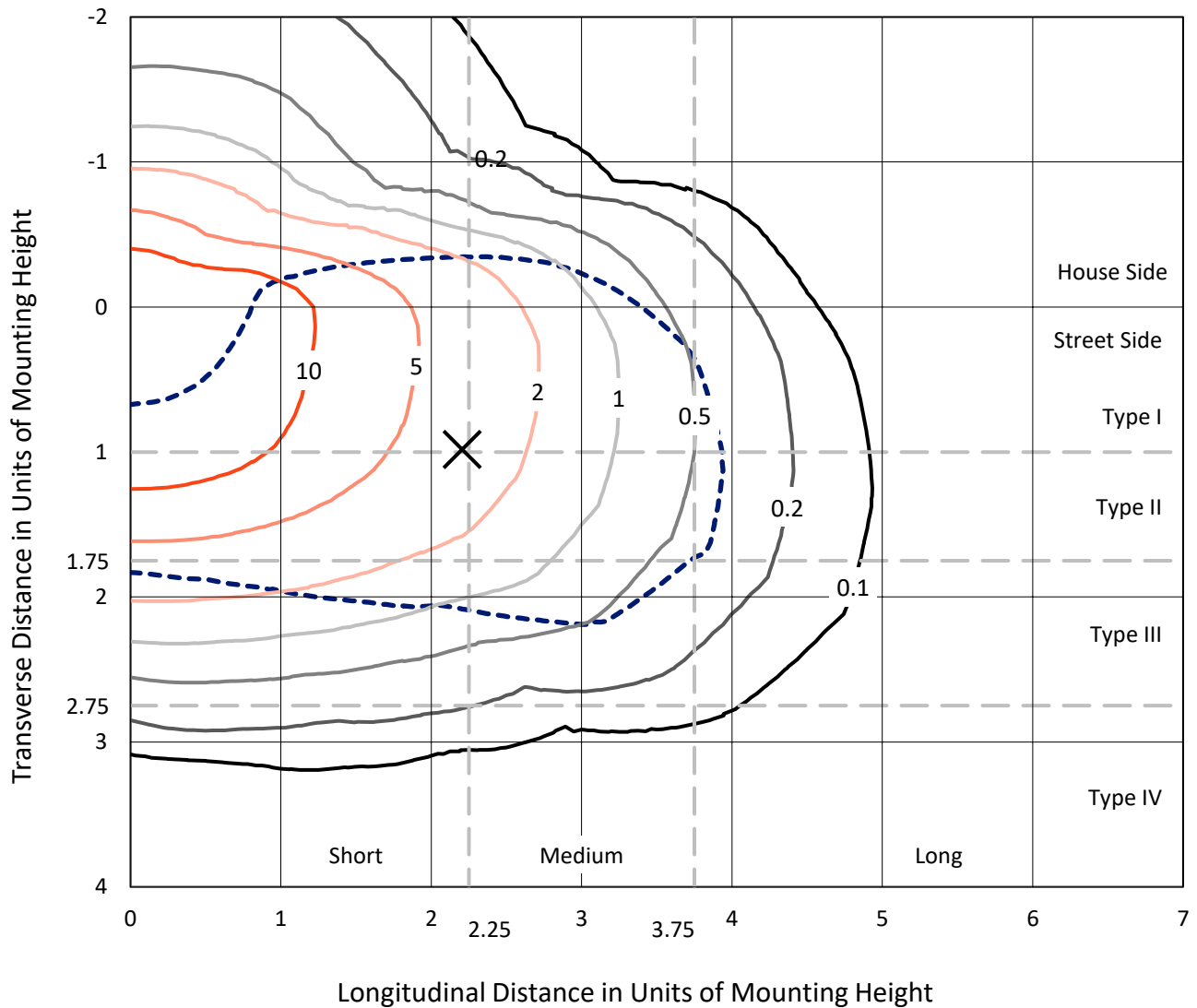
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

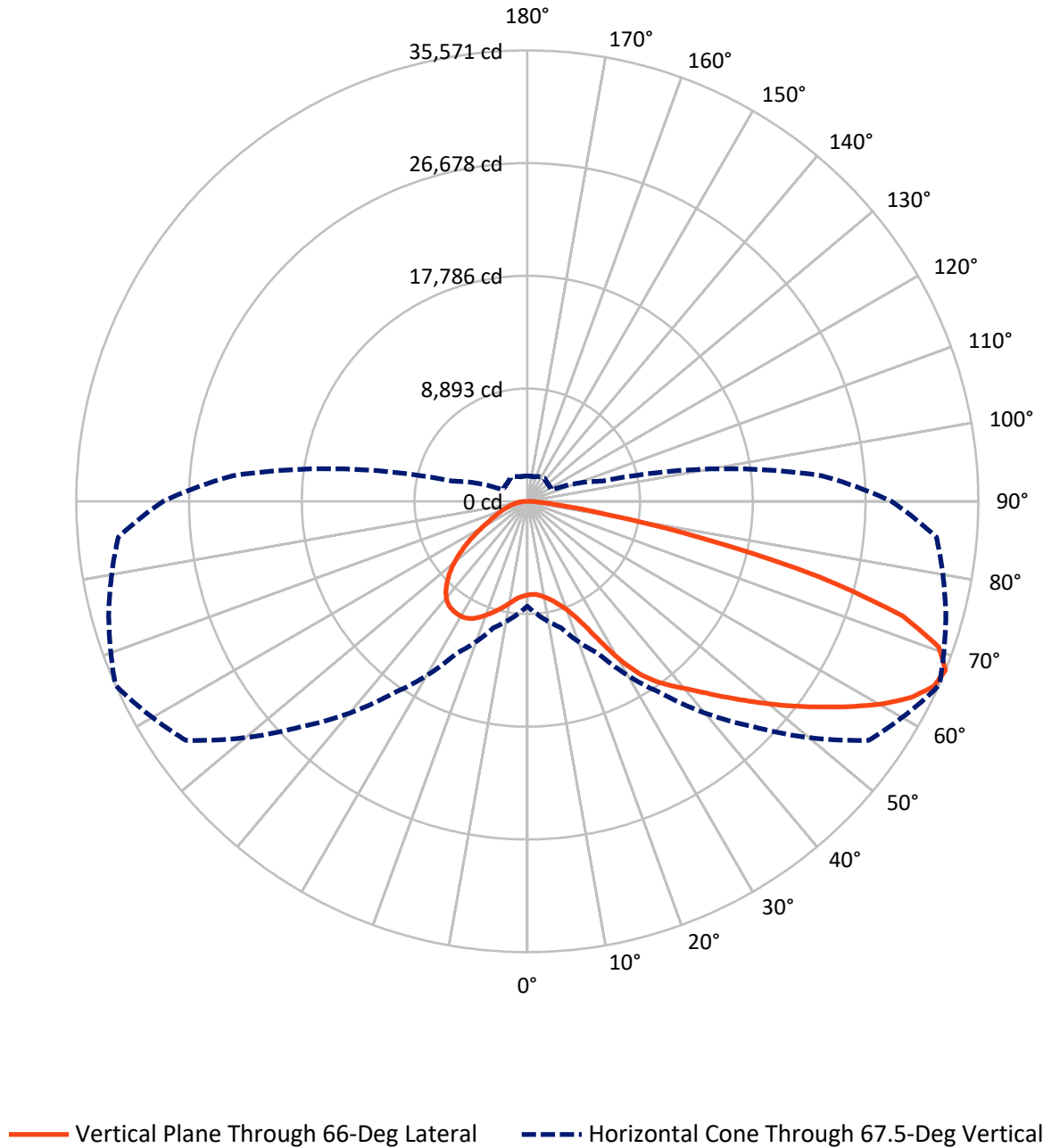
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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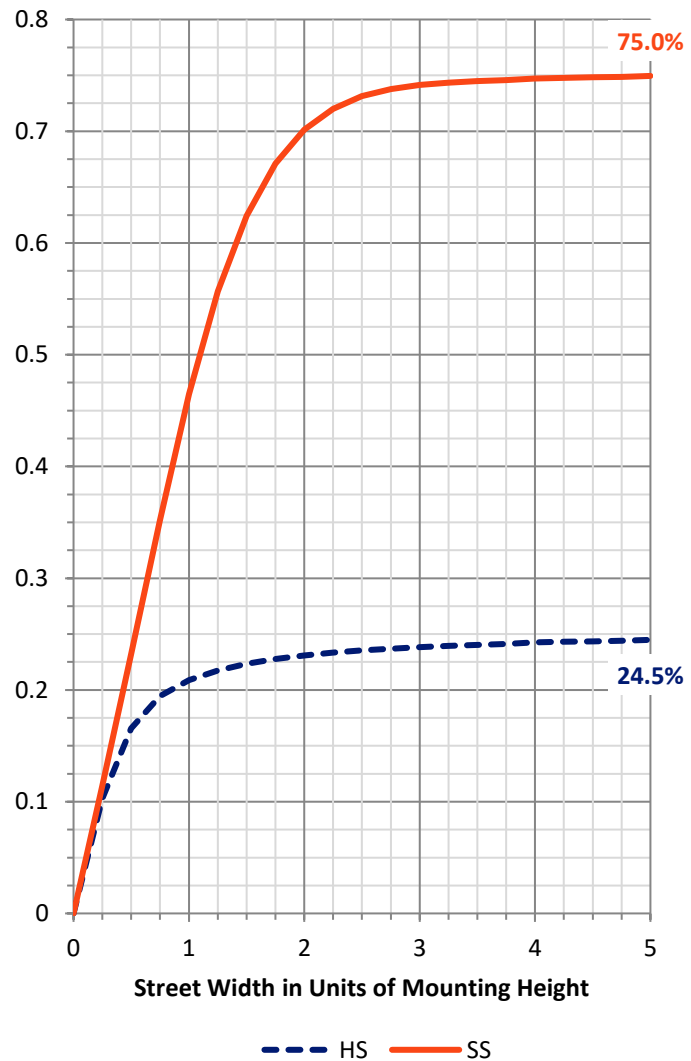
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16568.9	0.0	16568.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	50067.2	0.0	50067.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	66636.0	0.0	66636.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.8	1.1
10°-20°	2421.0	3.6
20°-30°	4666.3	7.0
30°-40°	8181.7	12.3
40°-50°	12163.6	18.3
50°-60°	15418.5	23.1
60°-70°	15086.6	22.6
70°-80°	7196.5	10.8
80°-90°	769.1	1.2
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°	66636.0	100.0
0°-180°	66636.0	100.0



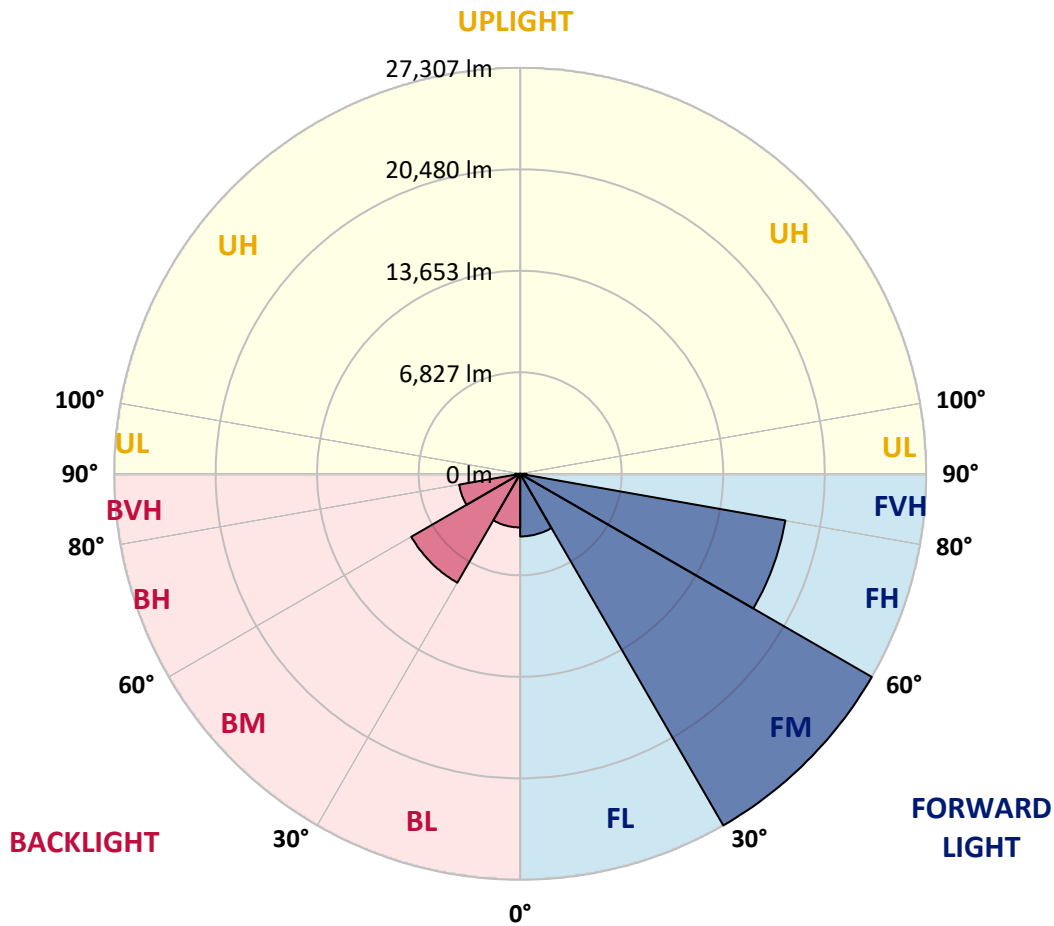
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4210.7	6.3			
FM (30°-60°)	27306.9	41.0			
FH (60°-80°)	18113.5	27.2			G5
FVH (80°-90°)	436.1	0.7			G3/500
BL (0°-30°)	3609.3	5.4	B4/5000		
BM (30°-60°)	8456.9	12.7	B4/8500		
BH (60°-80°)	4169.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	333.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8
2.5°	7313.8	7355.8	7345.3	7327.8	7324.3	7331.3	7341.8	7352.3	7348.8	7366.3	7394.3
5°	7292.8	7334.8	7331.3	7331.3	7345.3	7373.3	7390.8	7408.3	7390.8	7411.8	7450.3
7.5°	7306.8	7338.3	7352.3	7366.3	7401.3	7453.8	7495.8	7534.4	7513.4	7537.9	7586.9
10°	7485.3	7509.9	7523.9	7523.9	7548.4	7607.9	7649.9	7719.9	7702.4	7740.9	7803.9
12.5°	7810.9	7835.5	7835.5	7821.4	7839.0	7877.5	7891.5	7968.5	7937.0	8000.0	8063.0
15°	8210.1	8259.1	8220.6	8196.1	8203.1	8241.6	8238.1	8297.6	8266.1	8318.6	8374.6
17.5°	8651.2	8714.2	8651.2	8647.7	8633.7	8675.7	8679.2	8731.7	8675.7	8714.2	8752.7
20°	9172.9	9260.4	9207.9	9225.4	9193.9	9211.4	9228.9	9305.9	9218.4	9246.4	9235.9
22.5°	9908.1	10013.1	9957.1	10023.6	10002.6	9988.6	9985.1	10121.7	9985.1	9995.6	9894.1
25°	10979.4	11105.5	11007.4	11098.5	11098.5	11144.0	11196.5	11371.6	11144.0	11077.5	10814.9
27.5°	12561.9	12688.0	12495.4	12551.4	12533.9	12646.0	12589.9	13024.1	12779.0	12670.5	12141.8
30°	14466.5	14690.6	14326.5	14312.5	14295.0	14473.5	14554.1	14841.1	14592.6	14484.0	13846.8
32.5°	16525.2	16759.7	16325.6	16199.6	16133.0	16241.6	16175.1	16406.1	16234.6	16066.5	15278.8
35°	18702.9	18933.9	18520.8	18275.7	18009.6	17782.1	17544.0	17603.5	17442.5	17186.9	16371.1
37.5°	20761.5	21185.1	20747.5	20484.9	19994.8	19550.1	18884.9	18608.3	18457.8	18223.2	17400.4
40°	22858.7	23100.2	22767.6	22543.6	22011.4	21314.7	20250.3	19665.7	19462.6	19235.0	18538.3
42.5°	24402.6	24633.7	24455.2	24301.1	23884.5	23075.7	21699.8	20968.1	20674.0	20418.4	19826.7
45°	25628.0	25799.6	25687.5	25743.6	25565.0	24780.8	23201.8	22365.0	22060.4	21748.8	21283.2
47.5°	26121.7	26303.7	26482.3	26814.9	27119.5	26541.8	24815.8	23877.5	23555.4	23236.8	22778.1
50°	26065.7	26251.2	26769.4	27476.6	28421.9	28229.3	26517.3	25488.0	25190.4	24826.3	24402.6
52.5°	25617.5	25827.6	26492.8	27669.2	29174.6	29493.2	28250.3	27151.0	26870.9	26436.8	26013.1
55°	24441.1	24567.2	25565.0	27231.5	29353.2	30375.5	29948.4	28922.6	28642.5	28036.8	27574.6
57.5°	22260.0	22442.0	23895.0	26051.7	28905.0	30974.2	31439.8	30785.1	30515.6	29643.8	29160.6
60°	19413.6	19704.2	21367.2	24070.0	27763.7	30970.7	32794.8	32616.2	32392.1	31226.3	30722.1
62.5°	16192.6	16528.7	18128.7	21269.2	25768.1	30091.9	33642.0	34149.7	34034.2	32686.2	32042.0
65°	12435.9	12667.0	14260.0	17645.5	22662.6	28204.8	33740.1	35196.5	35217.5	33796.1	32731.7
67.5°	8280.1	8945.3	10328.2	13241.1	18503.3	25120.4	32878.8	35368.1	35571.1	34177.7	32385.1
70°	4040.3	4915.5	6270.5	8605.7	13241.1	20390.4	30627.6	33960.6	34412.3	33064.3	30319.5
72.5°	1677.0	1960.6	2699.3	4246.8	7600.9	13759.3	26104.2	30144.4	30981.2	29297.2	25491.5
75°	1130.9	1225.4	1544.0	2177.7	3462.6	6785.1	18825.4	22477.0	23825.0	22126.9	18086.7
77.5°	871.8	931.3	1123.9	1523.0	2058.6	2566.3	10076.2	13545.7	14242.5	13185.1	9410.9
80°	686.2	731.7	840.3	1109.8	1460.0	1372.4	3434.6	6137.4	6540.0	5486.2	3024.9
82.5°	595.2	612.7	602.2	752.7	969.8	801.8	1127.4	2265.2	2499.8	1813.6	987.3
85°	430.6	479.7	500.7	465.6	514.7	406.1	462.1	801.8	882.3	787.7	556.7
87.5°	175.1	259.1	318.6	301.1	189.1	115.5	143.5	234.6	269.6	294.1	182.1
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°	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8	7390.8
2.5°	7397.8	7422.3	7439.8	7460.8	7474.8	7495.8	7537.9	7562.4	7565.9	7583.4	7579.9
5°	7464.3	7499.3	7537.9	7593.9	7656.9	7709.4	7789.9	7846.0	7867.0	7884.5	7881.0
7.5°	7607.9	7656.9	7726.9	7824.9	7916.0	7986.0	8084.0	8150.6	8217.1	8241.6	8245.1
10°	7821.4	7891.5	7993.0	8126.0	8224.1	8315.1	8416.6	8472.7	8539.2	8567.2	8581.2
12.5°	8087.5	8161.1	8294.1	8479.7	8570.7	8633.7	8668.7	8654.7	8668.7	8693.2	8700.2
15°	8392.1	8472.7	8623.2	8822.8	8885.8	8829.8	8752.7	8682.7	8672.2	8679.2	8703.7
17.5°	8752.7	8812.3	8987.3	9155.4	9109.9	8878.8	8710.7	8598.7	8542.7	8525.2	8549.7
20°	9256.9	9256.9	9400.4	9505.5	9200.9	8808.8	8546.2	8364.1	8248.6	8199.6	8189.1
22.5°	9869.6	9813.6	9904.6	9831.1	9183.4	8612.7	8248.6	7933.5	7758.4	7688.4	7677.9
25°	10646.8	10580.3	10555.8	10100.7	9057.3	8301.1	7709.4	7327.8	7173.7	7135.2	7142.2
27.5°	11819.7	11651.6	11333.0	10247.7	8826.3	7810.9	7079.2	6725.6	6638.1	6641.6	6652.1
30°	13381.2	13045.1	12264.3	10272.2	8448.1	7117.7	6435.0	6182.9	6140.9	6158.4	6217.9
32.5°	14827.1	14508.5	13216.6	10160.2	7867.0	6438.5	5857.3	5689.3	5626.3	5647.3	5675.3
35°	15961.5	15874.0	14098.9	10002.6	7152.7	5801.3	5339.2	5195.6	5073.1	5045.1	5066.1
37.5°	17032.8	16997.8	14760.6	9782.1	6445.5	5349.7	4922.5	4733.5	4554.9	4456.9	4460.4
40°	18209.2	18174.2	15194.8	9442.5	5818.8	4957.6	4547.9	4299.3	4078.8	3900.2	3917.7
42.5°	19532.6	19326.0	15401.3	8955.8	5286.7	4624.9	4243.3	3907.2	3616.6	3452.1	3462.6
45°	20978.6	20512.9	15397.8	8336.1	4838.5	4320.4	3917.7	3441.6	3172.0	3017.9	3010.9
47.5°	22512.0	21647.3	15208.8	7649.9	4404.4	3984.2	3413.6	3049.5	2870.9	2776.4	2755.4
50°	24094.5	22708.1	14886.7	6862.1	3959.7	3602.6	3098.5	2849.9	2713.3	2625.8	2594.3
52.5°	25582.5	23670.9	14498.0	5969.4	3508.1	3231.5	2958.4	2765.9	2622.3	2524.3	2482.3
55°	26965.4	24500.7	13948.4	5055.6	3140.5	2982.9	2891.9	2730.9	2566.3	2450.8	2405.3
57.5°	28194.3	25039.8	12999.6	4197.8	2877.9	2811.4	2821.9	2671.3	2482.3	2384.2	2321.2
60°	29216.6	25435.5	11595.6	3403.1	2664.3	2643.3	2713.3	2559.3	2338.7	2226.7	2177.7
62.5°	29829.3	25428.5	9873.1	2786.9	2482.3	2489.3	2569.8	2419.3	2195.2	2090.2	2058.6
65°	29776.8	24805.3	7982.5	2384.2	2307.2	2314.2	2419.3	2265.2	2076.1	2013.1	2009.6
67.5°	28723.0	23285.8	6123.4	2121.7	2114.7	2146.2	2268.7	2160.2	2002.6	1995.6	2006.1
70°	25869.6	20131.3	4411.4	1911.6	1915.1	1960.6	2121.7	2093.7	1964.1	1978.1	1974.6
72.5°	20744.0	15348.8	2961.9	1691.0	1694.5	1768.1	1981.6	2041.1	1925.6	2111.2	2139.2
75°	13815.3	9572.0	1904.6	1456.5	1460.0	1554.5	1859.1	1939.6	1820.6	2104.2	2121.7
77.5°	6638.1	4302.8	1379.4	1225.4	1225.4	1312.9	1607.0	1736.5	1551.0	1635.0	1498.5
80°	2293.2	1617.5	1085.3	987.3	966.3	1025.8	1354.9	1505.5	1337.4	1232.4	1155.4
82.5°	903.3	840.3	871.8	766.7	696.7	735.2	1053.8	1242.9	983.8	889.3	885.8
85°	518.2	546.2	616.2	507.7	402.6	451.6	773.7	892.8	742.2	654.7	668.7
87.5°	140.0	192.6	283.6	262.6	182.1	192.6	367.6	493.7	427.1	329.1	339.6
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)