

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: P963999

Luminaire Tested: **NAV-SB3B-730-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-730-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17212.8 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

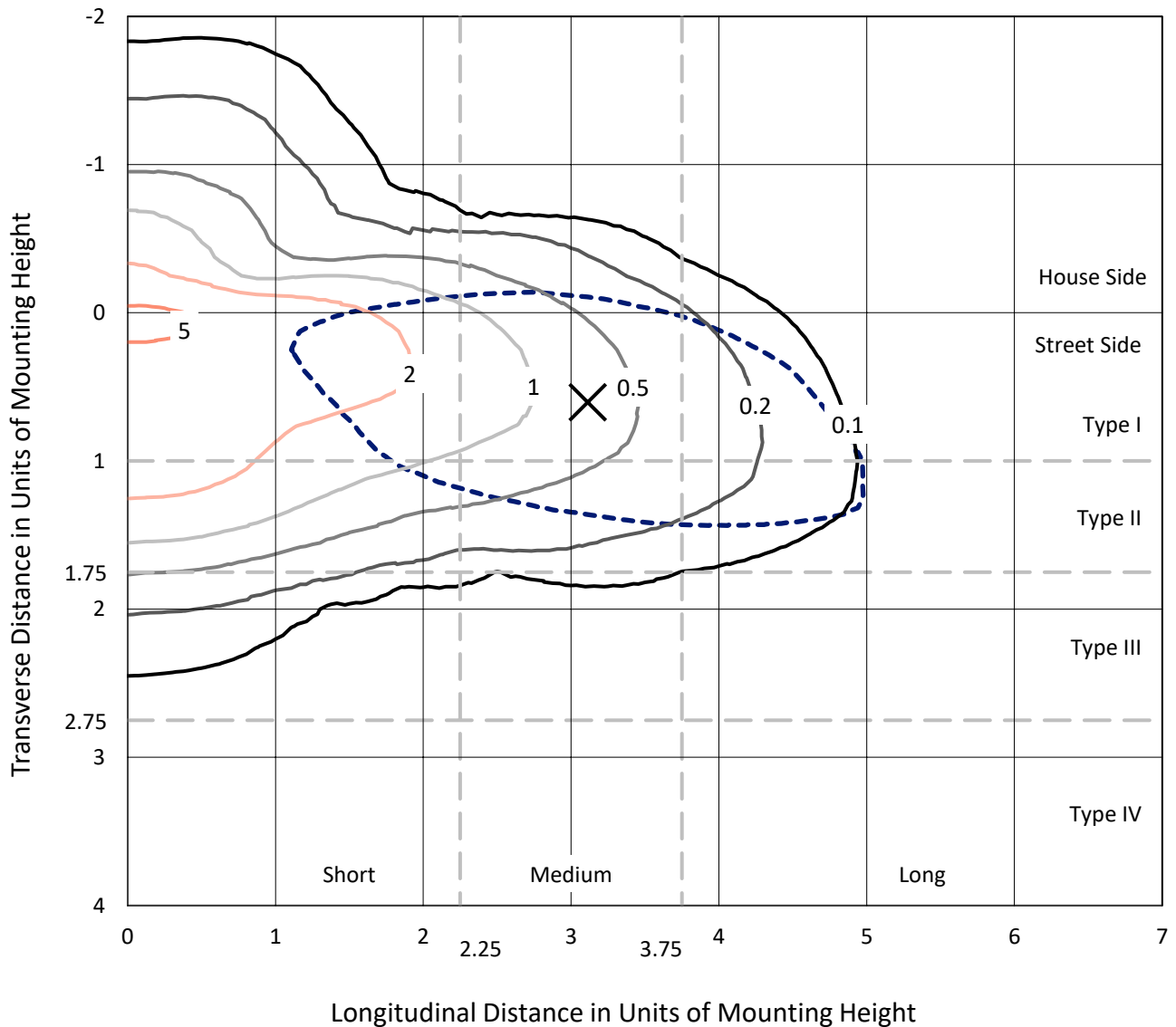
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

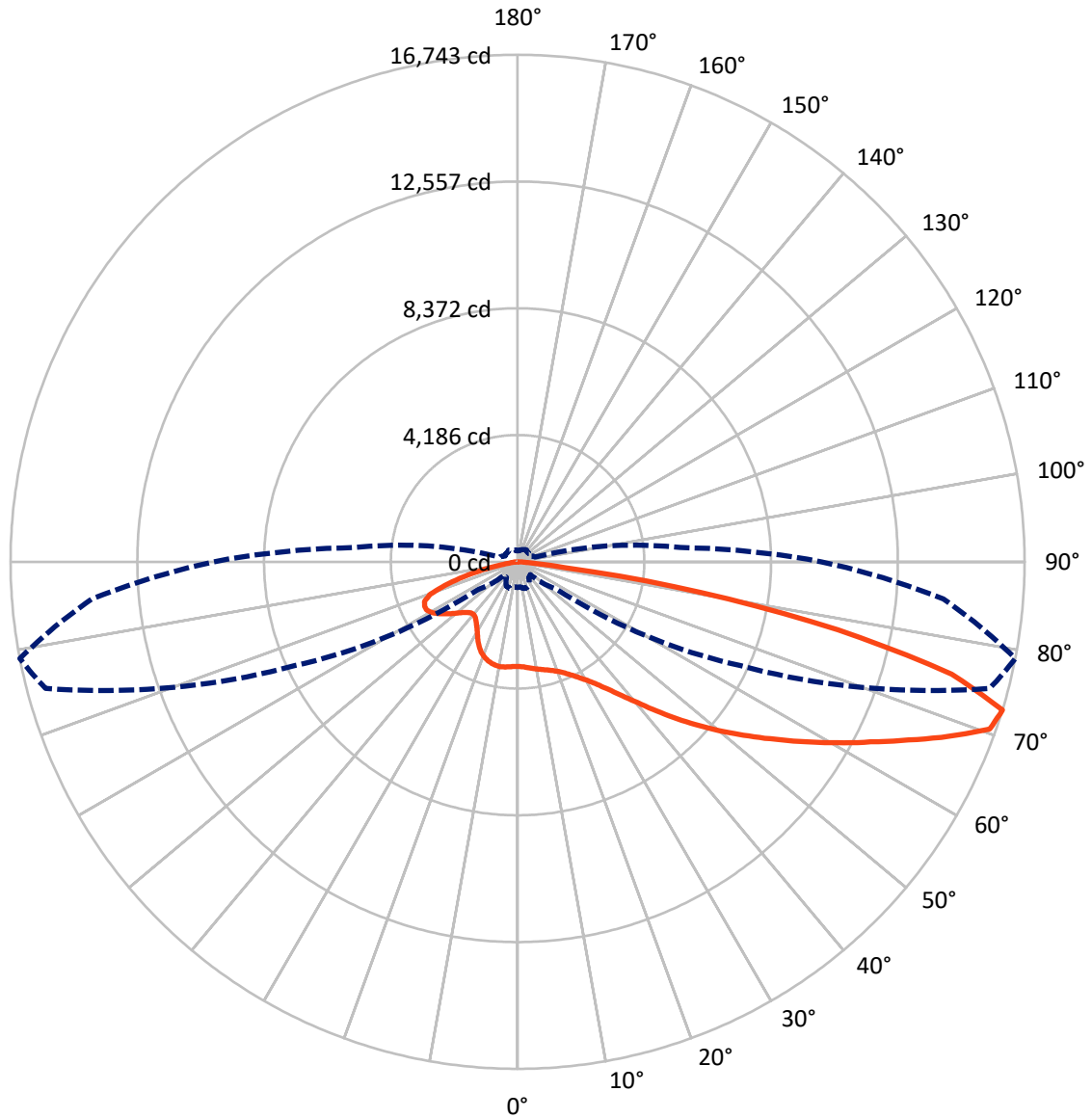
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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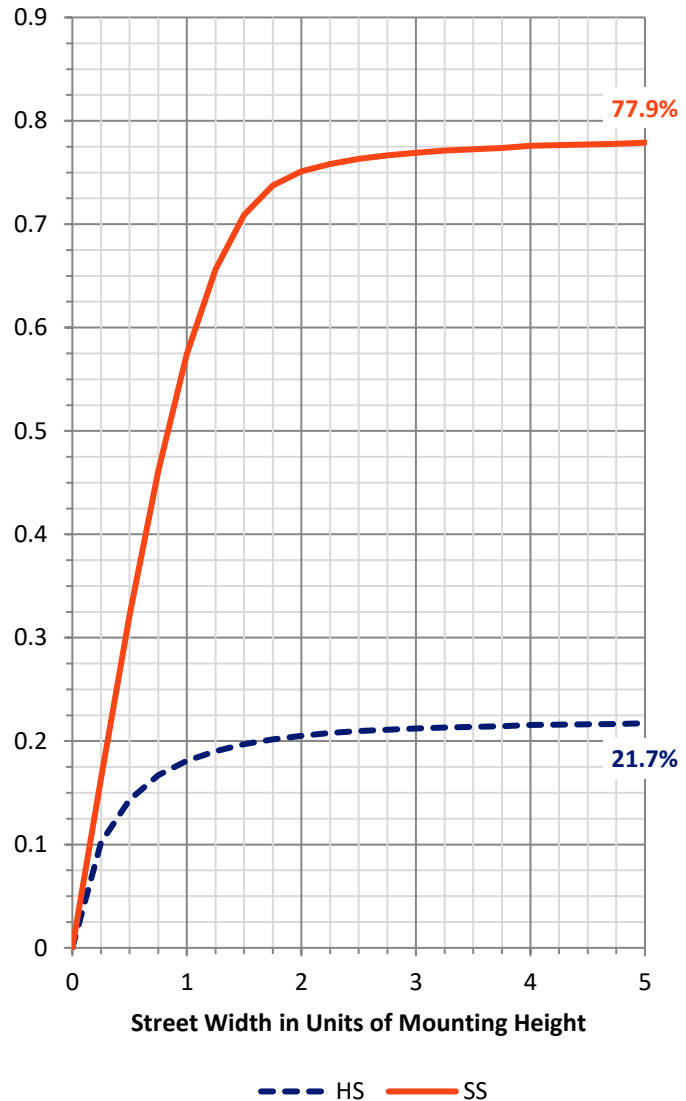
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3787.8	0.0	3787.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	13425.0	0.0	13425.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	17212.8	0.0	17212.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.6	1.8
10°-20°	820.0	4.8
20°-30°	1323.2	7.7
30°-40°	1985.9	11.5
40°-50°	2817.1	16.4
50°-60°	3557.6	20.7
60°-70°	3613.3	21.0
70°-80°	2462.6	14.3
80°-90°	319.5	1.9
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°	17212.8	100.0
0°-180°	17212.8	100.0

**Coefficient of Utilization**

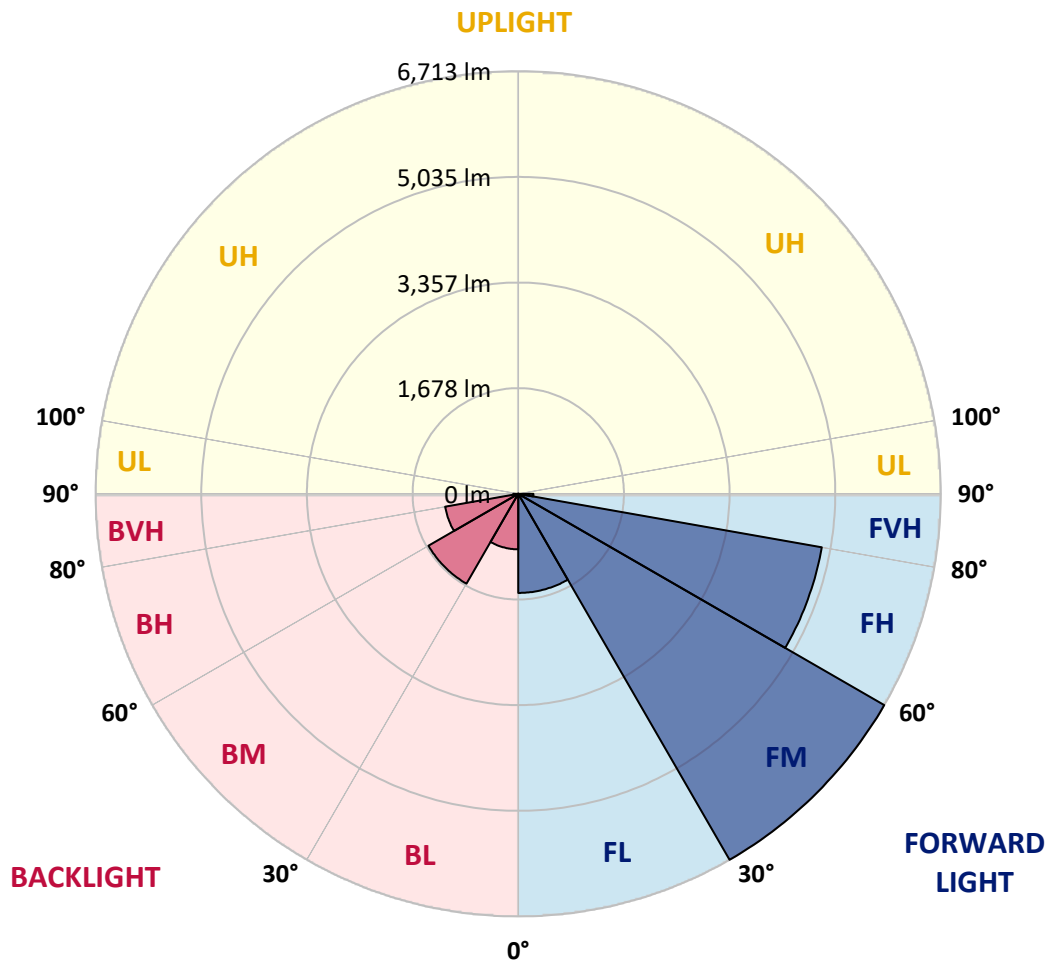


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1574.6	9.1			
FM (30°-60°)	6713.3	39.0			
FH (60°-80°)	4896.5	28.4			G2/5000
FVH (80°-90°)	240.7	1.4			G3/500
BL (0°-30°)	882.3	5.1	B2/1000		
BM (30°-60°)	1647.3	9.6	B2/2500		
BH (60°-80°)	1179.4	6.9	B3/2500		G3/2500
BVH (80°-90°)	78.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3
2.5°	3457.1	3440.7	3450.8	3447.1	3451.7	3457.1	3459.0	3461.7	3470.8	3469.8	3469.0
5°	3449.8	3433.4	3447.1	3442.6	3454.4	3467.2	3478.0	3488.1	3502.6	3509.0	3500.0
7.5°	3434.4	3423.4	3437.1	3450.8	3472.6	3491.8	3507.2	3530.0	3550.9	3554.6	3561.0
10°	3344.3	3336.1	3367.9	3403.4	3463.5	3515.4	3549.1	3575.5	3598.3	3601.8	3611.0
12.5°	3250.5	3240.4	3275.9	3324.2	3421.7	3515.4	3586.4	3621.0	3641.0	3652.9	3666.5
15°	3235.0	3226.8	3246.8	3288.7	3369.7	3490.8	3611.9	3675.6	3693.0	3706.6	3712.0
17.5°	3309.6	3294.1	3302.3	3316.9	3364.3	3468.1	3632.0	3737.6	3764.0	3778.6	3778.6
20°	3482.6	3460.8	3448.0	3418.9	3410.7	3471.7	3630.1	3812.2	3846.8	3865.1	3869.6
22.5°	3713.0	3698.4	3671.1	3597.3	3517.2	3516.4	3664.7	3907.8	3972.5	3989.8	3978.8
25°	3991.6	3969.7	3935.2	3834.9	3681.1	3604.6	3723.0	4029.8	4138.1	4142.7	4110.9
27.5°	4312.1	4279.3	4231.9	4099.9	3892.3	3743.0	3812.2	4170.0	4328.5	4326.6	4261.1
30°	4649.9	4617.1	4567.0	4406.8	4145.5	3929.6	3936.0	4321.2	4554.3	4544.2	4432.3
32.5°	4896.6	4872.0	4862.0	4738.2	4436.8	4150.0	4078.1	4488.7	4832.9	4823.8	4667.1
35°	5086.0	5054.2	5066.0	5003.1	4754.6	4396.7	4252.0	4688.1	5171.5	5170.7	4975.9
37.5°	5273.5	5245.3	5255.4	5213.5	5048.6	4710.0	4464.2	4932.1	5591.3	5611.4	5349.2
40°	5444.7	5414.7	5454.7	5415.6	5277.2	5043.2	4705.4	5208.0	6077.5	6115.8	5800.8
42.5°	5547.6	5523.9	5590.5	5591.3	5475.7	5324.6	4970.3	5512.1	6640.3	6725.7	6356.1
45°	5583.2	5575.0	5675.1	5696.0	5651.4	5487.5	5208.9	5843.5	7246.5	7399.6	6989.0
47.5°	5544.8	5529.4	5667.8	5745.2	5780.7	5564.0	5406.5	6202.3	7865.7	8089.7	7679.1
50°	5351.8	5321.8	5527.6	5690.6	5817.1	5614.1	5605.9	6616.6	8569.5	8814.5	8372.9
52.5°	5005.0	4982.2	5216.2	5499.3	5737.0	5638.6	5829.9	7069.0	9237.8	9554.6	9084.0
55°	4561.6	4531.5	4789.2	5158.8	5537.6	5630.4	6053.9	7575.3	10026.3	10347.7	9818.7
57.5°	3858.6	3798.5	4124.5	4561.6	5212.5	5620.5	6286.9	8078.7	10827.6	11212.7	10602.7
60°	2833.4	2744.2	3143.9	3662.0	4577.0	5523.0	6575.6	8643.3	11789.0	12135.9	11458.5
62.5°	1649.8	1597.9	1859.2	2342.7	3449.8	4949.4	6737.6	9299.7	12734.1	13098.3	12299.8
65°	1281.0	1266.5	1289.2	1326.6	1920.2	3705.7	6237.7	9939.8	13936.0	14190.9	13176.6
67.5°	1171.8	1160.9	1170.9	1100.7	974.3	2064.0	4934.9	10101.9	15223.4	15378.2	13944.2
70°	1041.6	1028.9	1061.6	1001.5	766.6	938.7	3188.6	9513.7	16247.7	16538.2	14527.7
72.5°	848.6	834.0	910.5	883.1	645.5	602.7	1601.6	8116.2	16140.3	16743.0	14109.8
75°	651.9	643.7	734.7	757.6	526.2	474.4	768.4	6032.9	14203.6	14810.9	12160.5
77.5°	506.2	499.9	546.3	629.1	424.2	367.9	472.5	3826.8	10703.8	10810.3	8380.2
80°	379.7	361.4	404.3	487.1	330.5	268.5	320.5	2231.6	6765.8	6133.1	3647.5
82.5°	237.6	228.6	264.0	325.0	233.1	184.8	208.5	1232.8	2711.4	1596.9	703.8
85°	135.7	132.0	143.8	185.7	126.6	106.5	119.3	544.5	495.3	340.5	212.2
87.5°	54.6	52.8	65.6	82.8	46.4	39.2	41.9	131.1	109.3	101.1	70.1
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°	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3	3455.3
2.5°	3465.3	3465.3	3452.6	3432.5	3409.8	3395.2	3371.5	3365.2	3340.6	3333.3	3345.2
5°	3507.2	3500.0	3460.8	3404.3	3326.9	3255.9	3177.6	3128.4	3059.2	3034.6	3052.9
7.5°	3560.0	3539.9	3472.6	3348.8	3186.7	3027.3	2861.7	2736.0	2615.8	2573.1	2578.5
10°	3608.3	3580.0	3465.3	3248.6	2968.2	2692.4	2428.3	2243.4	2103.2	2045.9	2058.6
12.5°	3656.5	3604.6	3417.0	3082.0	2657.7	2283.5	2002.1	1858.3	1771.8	1702.6	1725.4
15°	3702.1	3629.2	3342.4	2858.9	2317.2	1937.6	1729.9	1615.2	1546.0	1500.5	1508.7
17.5°	3754.9	3650.1	3230.4	2575.8	1993.1	1698.0	1528.7	1459.5	1445.9	1440.4	1444.0
20°	3828.6	3669.3	3082.9	2258.9	1754.5	1506.9	1419.4	1413.1	1412.1	1409.5	1418.5
22.5°	3907.8	3692.0	2888.0	1971.2	1551.4	1387.5	1372.1	1359.4	1351.2	1350.2	1360.3
25°	4001.6	3699.3	2644.1	1735.4	1378.5	1331.2	1312.9	1293.9	1288.3	1288.3	1293.9
27.5°	4092.6	3674.7	2360.0	1530.5	1281.0	1279.2	1255.5	1249.2	1248.2	1251.0	1258.3
30°	4183.7	3628.3	2077.8	1341.1	1224.6	1224.6	1216.4	1221.0	1224.6	1233.7	1240.0
32.5°	4306.6	3579.1	1841.9	1200.9	1175.5	1166.3	1174.5	1183.7	1187.3	1199.1	1209.1
35°	4486.9	3544.6	1654.4	1124.4	1124.4	1112.6	1117.1	1115.3	1107.2	1101.7	1114.5
37.5°	4725.5	3542.7	1499.6	1089.0	1081.7	1079.8	1080.8	1068.9	1037.1	998.8	999.7
40°	5012.2	3591.9	1380.3	1064.4	1058.9	1069.8	1064.4	1032.5	945.0	878.6	876.8
42.5°	5397.3	3732.1	1303.8	1034.3	1050.7	1064.4	1042.5	932.3	873.2	828.5	826.8
45°	5850.8	3959.7	1264.6	1002.4	1035.2	1051.6	946.0	897.7	850.4	796.6	793.0
47.5°	6364.3	4246.6	1255.5	972.4	1000.6	1010.6	905.1	883.1	829.4	771.2	766.6
50°	6923.4	4586.2	1280.1	936.8	950.6	915.9	891.3	871.4	815.8	758.4	752.0
52.5°	7501.6	4960.4	1329.3	888.7	900.5	862.2	885.9	868.6	807.6	730.2	724.8
55°	8069.7	5337.3	1376.7	832.2	849.5	814.0	870.4	857.7	770.3	682.9	678.3
57.5°	8646.9	5712.4	1423.1	782.1	800.3	767.5	845.8	828.5	728.4	639.2	637.3
60°	9246.9	6076.6	1444.9	733.9	746.6	724.8	808.5	778.5	681.0	594.5	591.8
62.5°	9808.7	6379.8	1409.5	685.6	693.8	684.7	759.3	719.2	633.7	544.5	543.6
65°	10372.3	6560.1	1300.2	638.3	640.1	635.5	690.1	655.6	578.2	500.8	495.3
67.5°	10883.1	6661.2	1126.3	587.2	582.7	580.9	625.6	586.4	524.5	457.0	451.6
70°	10991.5	6404.4	860.4	527.2	527.2	522.6	554.5	514.4	465.2	410.6	408.8
72.5°	10039.1	5387.4	610.9	458.9	466.2	457.0	483.5	449.8	405.2	368.8	357.8
75°	8095.1	3950.7	444.3	388.8	401.5	386.0	410.6	386.9	348.7	347.8	313.2
77.5°	5562.2	2442.9	322.4	320.5	329.6	309.5	337.8	325.0	290.5	275.0	257.7
80°	2373.7	974.3	234.9	247.6	247.6	229.4	262.2	265.9	235.9	228.6	228.6
82.5°	472.5	276.8	164.8	170.3	160.2	154.8	185.7	205.8	284.0	315.9	316.8
85°	142.1	102.0	99.2	92.9	81.9	82.8	109.3	206.6	254.9	145.7	125.7
87.5°	39.2	25.5	26.4	20.9	17.3	22.8	37.3	156.6	85.6	36.4	31.0
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)