

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: P970407

Luminaire Tested: **NAV-SB6B-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970407
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-SB6B-740-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA 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: 28523.7 lumens
Efficiency: N/A
Efficacy: 129.4 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): 220.4
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

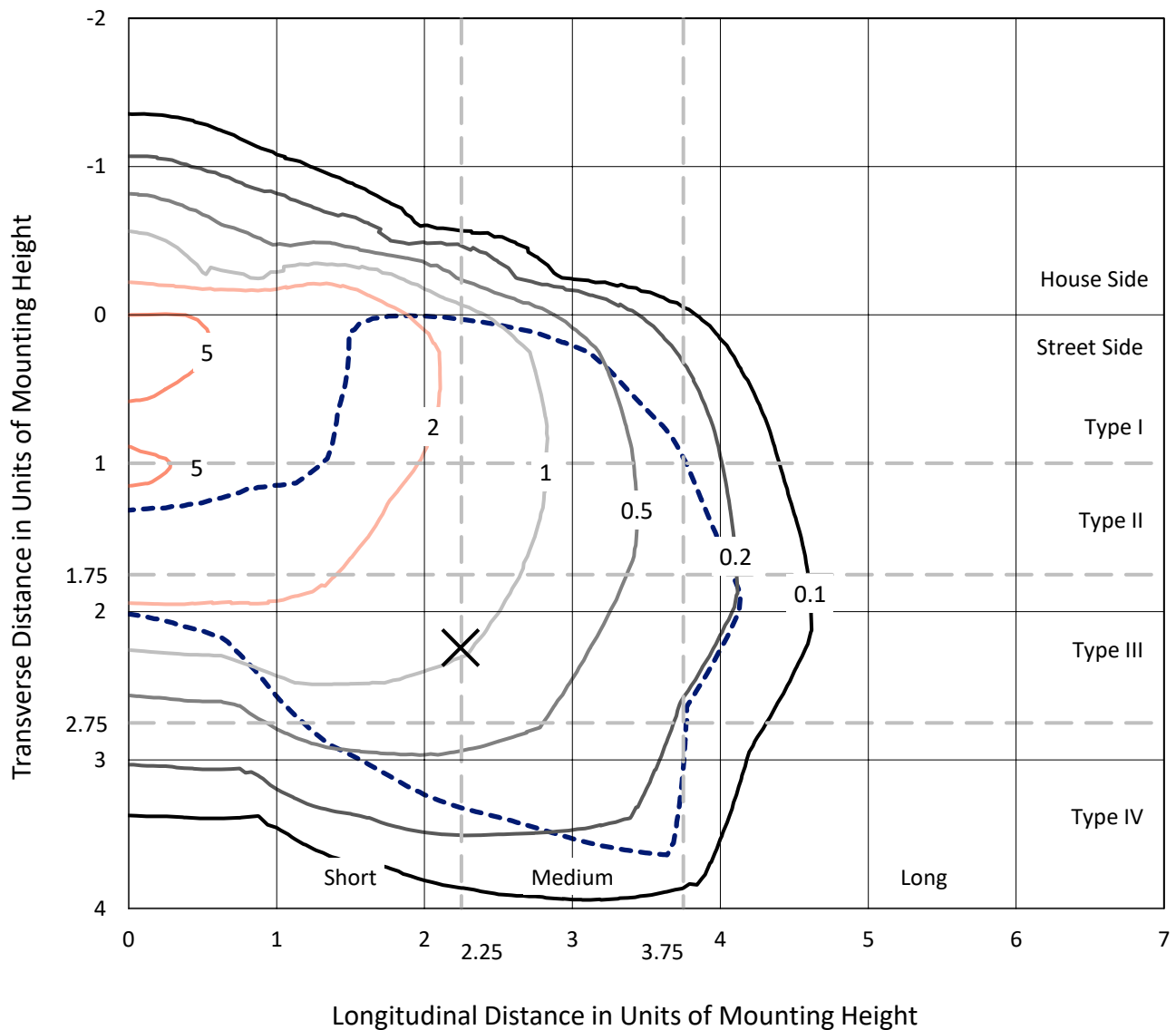


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

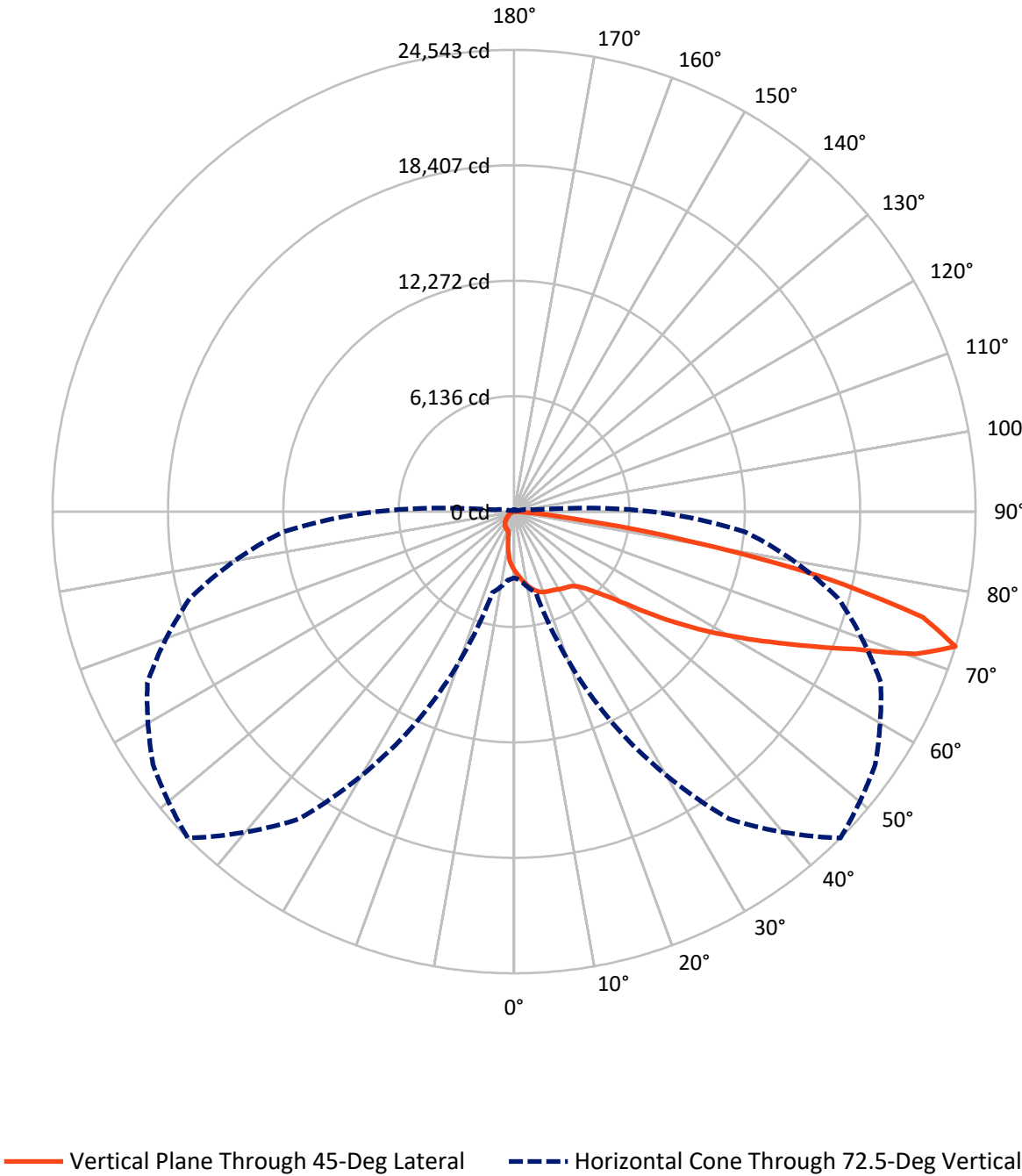


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2997.0	0.0	2997.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25526.6	0.0	25526.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	28523.7	0.0	28523.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	1.0
10°-20°	860.5	3.0
20°-30°	1413.0	5.0
30°-40°	2004.0	7.0
40°-50°	3312.4	11.6
50°-60°	5950.4	20.9
60°-70°	8262.4	29.0
70°-80°	5993.3	21.0
80°-90°	433.3	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°	28523.7	100.0
0°-180°	28523.7	100.0

Coefficient of Utilization



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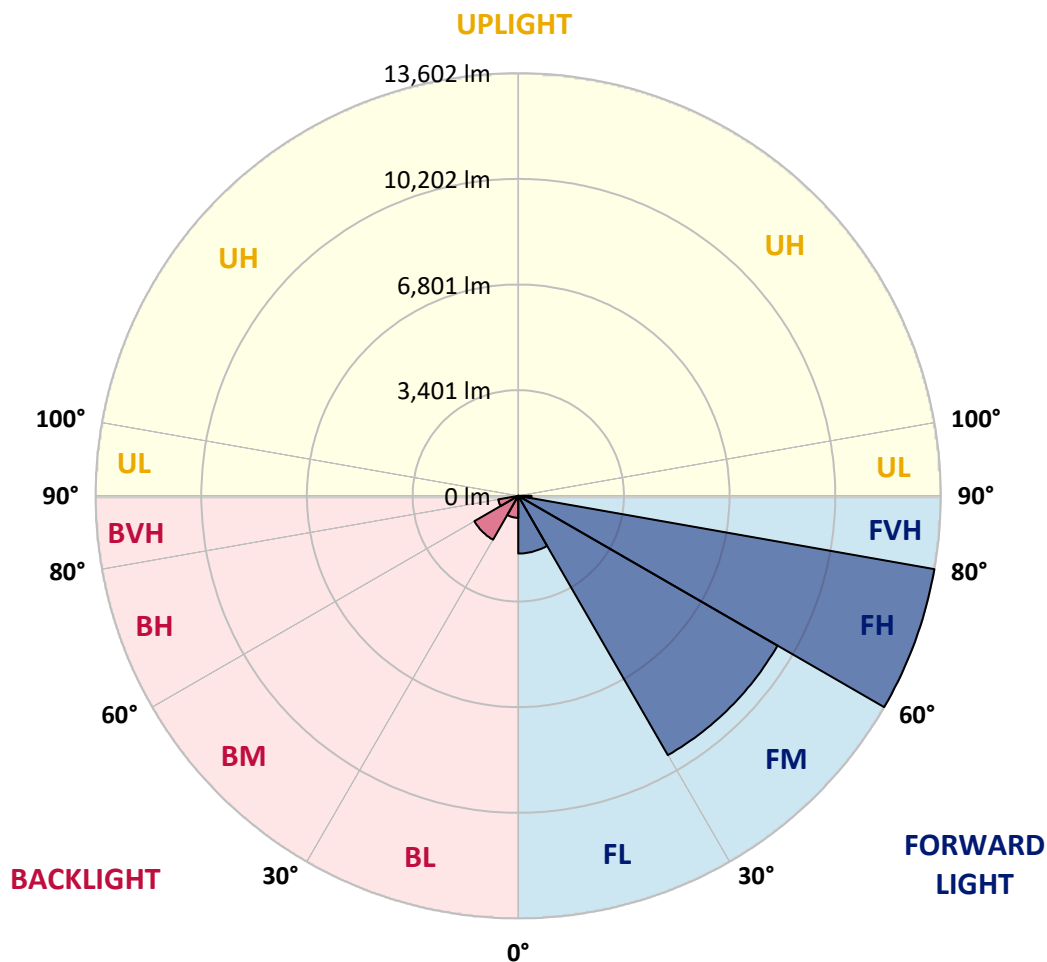
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1858.0	6.5			
FM	(30°-60°)	9636.8	33.8			
FH	(60°-80°)	13602.1	47.7			G5
FVH	(80°-90°)	429.6	1.5			G3/500
BL	(0°-30°)	709.9	2.5	B2/1000		
BM	(30°-60°)	1630.0	5.7	B2/2500		
BH	(60°-80°)	653.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.6	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°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3412.9	3418.8	3414.9	3391.5	3352.7	3331.2	3319.6	3280.6	3255.3	3210.5	3163.8
5°	3726.4	3749.8	3736.1	3689.5	3615.5	3562.9	3547.3	3467.5	3395.4	3311.8	3214.4
7.5°	4059.4	4071.0	4045.8	3985.4	3886.1	3796.5	3782.9	3672.0	3557.1	3428.5	3296.2
10°	4347.5	4361.2	4322.2	4234.6	4121.6	4010.7	3991.2	3868.6	3732.2	3574.6	3405.2
12.5°	4588.9	4602.6	4551.9	4446.8	4322.2	4207.3	4187.8	4059.4	3909.5	3734.2	3524.0
15°	4772.0	4797.2	4729.1	4616.2	4481.8	4367.0	4357.3	4230.7	4084.6	3890.0	3666.1
17.5°	4879.0	4904.3	4840.0	4703.8	4588.9	4491.5	4479.9	4374.8	4238.5	4051.6	3804.3
20°	4896.5	4919.9	4851.7	4733.0	4637.6	4559.7	4553.9	4477.9	4378.7	4199.5	3954.2
22.5°	4843.9	4873.2	4810.8	4715.5	4649.3	4608.4	4600.6	4557.8	4501.3	4349.5	4094.4
25°	4789.4	4812.8	4766.1	4682.4	4647.3	4643.5	4649.3	4641.5	4629.8	4501.3	4258.0
27.5°	4785.5	4810.8	4758.4	4678.5	4659.0	4699.9	4705.8	4742.8	4752.5	4639.6	4415.7
30°	4818.6	4836.2	4785.5	4701.9	4692.1	4785.5	4787.5	4853.7	4869.3	4756.4	4571.4
32.5°	4890.7	4910.2	4859.5	4736.9	4723.3	4853.7	4859.5	4947.2	4972.5	4880.9	4735.0
35°	5060.1	5083.5	5025.1	4834.2	4785.5	4918.0	4935.5	5038.7	5089.3	5013.4	4904.3
37.5°	5482.6	5414.5	5334.6	5030.9	4927.7	5019.2	5048.4	5169.1	5258.7	5171.0	5106.9
40°	6532.0	6317.8	6068.6	5365.8	5176.9	5235.3	5258.7	5379.4	5502.0	5416.4	5385.2
42.5°	8107.0	7854.0	7452.9	6136.8	5552.6	5581.8	5599.4	5704.5	5877.8	5809.7	5817.5
45°	9510.8	9419.2	9010.5	7452.9	6255.5	6111.5	6132.9	6187.4	6442.4	6417.1	6467.7
47.5°	10589.4	10536.8	10221.4	8963.7	7443.1	6759.8	6820.1	6845.5	7213.4	7302.9	7439.2
50°	11418.8	11399.3	11117.0	10307.1	8994.9	7715.7	7737.1	7682.6	8233.6	8455.5	8714.4
52.5°	12201.5	12267.6	12059.3	11555.0	10651.7	8967.6	8963.7	8706.7	9450.4	9785.3	10227.2
55°	12908.2	12931.5	12952.9	12828.4	12318.2	10392.8	10355.8	9935.2	10861.9	11208.5	11687.5
57.5°	13572.1	13581.9	13772.6	14027.6	14053.0	11923.0	11854.8	11350.6	12403.9	12651.2	12945.1
60°	14017.9	14062.7	14465.7	15174.4	15484.0	13502.0	13465.0	12951.0	13973.1	14088.0	14033.5
62.5°	13375.4	13648.0	14664.4	16070.1	16835.1	15252.3	15234.8	14751.9	15624.2	15530.7	15063.4
65°	10826.9	11288.3	13075.6	16675.5	18161.1	17207.0	17232.3	16718.4	17319.9	17016.2	15900.6
67.5°	7573.6	8060.3	10174.7	16724.2	19642.6	19502.5	19648.4	18842.5	19120.9	18439.4	16099.2
70°	5237.2	5488.4	6864.9	15676.8	20797.1	22664.3	22660.4	21451.3	20912.0	19087.8	15086.8
72.5°	3522.0	3652.5	4458.4	12437.0	19948.3	24543.1	24430.2	23445.0	21515.6	17851.5	12326.0
75°	1485.5	1581.0	2063.7	6989.5	15781.8	22454.1	22148.3	20719.2	19117.0	14056.8	7690.4
77.5°	471.2	512.1	813.8	2501.8	8693.0	16878.0	16554.8	12939.3	12812.8	7051.8	2811.4
80°	223.9	260.9	457.6	1004.6	3420.7	9179.8	9135.0	5870.0	5511.7	1904.1	564.6
82.5°	97.4	114.9	253.1	537.3	1530.3	3274.8	3341.0	1997.5	1652.9	722.3	173.3
85°	31.2	40.9	116.8	247.2	646.4	813.8	804.1	475.1	665.8	393.3	60.4
87.5°	0.0	0.0	38.9	56.5	66.2	46.7	52.6	40.9	184.9	109.1	21.4
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°	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8	3124.8
2.5°	3140.4	3109.2	3054.7	3004.2	2959.4	2914.6	2887.3	2848.4	2844.5	2844.5	2854.2
5°	3161.8	3111.2	3013.8	2910.7	2791.9	2678.9	2566.1	2457.0	2422.0	2396.7	2408.3
7.5°	3224.1	3144.3	2990.5	2793.8	2568.0	2320.7	2147.5	1960.5	1888.6	1849.6	1855.5
10°	3313.7	3204.7	2971.1	2626.5	2260.4	1923.6	1676.3	1473.8	1395.9	1362.8	1362.8
12.5°	3412.9	3278.7	2936.0	2418.1	1923.6	1520.6	1279.1	1185.7	1174.0	1174.0	1174.0
15°	3531.7	3368.2	2875.6	2172.8	1571.2	1203.2	1117.6	1121.5	1133.1	1140.9	1140.9
17.5°	3654.4	3463.6	2780.2	1898.3	1259.6	1082.5	1084.4	1090.3	1100.0	1107.8	1107.8
20°	3786.8	3559.0	2653.6	1606.2	1080.6	1047.4	1053.3	1059.1	1066.9	1070.8	1072.8
22.5°	3928.9	3648.6	2503.8	1320.0	1020.2	1018.2	1020.2	1026.0	1035.8	1035.8	1039.7
25°	4080.7	3747.8	2332.4	1111.7	989.0	989.0	992.9	996.8	1004.6	1004.6	1006.6
27.5°	4236.5	3839.3	2151.4	1002.7	961.8	959.8	959.8	965.7	969.5	971.5	973.4
30°	4407.9	3946.5	1970.3	979.3	940.3	930.6	924.8	928.6	932.5	934.5	938.4
32.5°	4583.1	4049.7	1808.7	989.0	918.9	901.4	882.0	878.1	878.1	885.8	891.6
35°	4777.7	4162.5	1684.1	1022.1	907.2	858.6	827.5	810.0	811.9	823.6	829.4
37.5°	5011.4	4298.8	1592.5	1051.3	899.4	810.0	759.3	737.9	724.3	737.9	734.0
40°	5317.1	4499.3	1526.4	1074.7	889.7	753.5	685.3	650.3	624.9	632.7	628.8
42.5°	5766.9	4814.7	1501.1	1076.7	868.4	687.3	609.4	562.6	525.7	527.7	519.9
45°	6397.6	5313.2	1631.5	1051.3	821.6	615.2	529.6	467.3	443.9	438.1	430.3
47.5°	7262.0	6039.4	1933.4	998.8	753.5	545.1	451.7	399.1	381.6	371.9	366.0
50°	8420.5	6971.9	2268.2	940.3	685.3	479.0	387.4	354.3	342.7	332.9	331.0
52.5°	9763.8	7918.2	2542.7	882.0	617.2	420.6	346.6	327.1	317.3	309.5	307.6
55°	10996.3	8570.4	2527.1	819.7	550.9	373.8	317.3	305.7	294.0	286.2	282.3
57.5°	11763.4	8662.0	2083.2	751.5	475.1	336.8	290.1	282.3	268.7	258.9	257.0
60°	12115.8	8140.1	1460.2	661.9	399.1	301.8	260.9	257.0	239.4	225.8	221.9
62.5°	12180.1	7170.6	973.4	550.9	332.9	268.7	231.6	225.8	202.4	179.1	167.5
65°	11919.1	5784.4	673.6	430.3	284.2	233.6	198.5	186.9	161.6	138.3	130.5
67.5°	11093.7	4061.4	469.2	309.5	241.4	184.9	157.7	153.9	134.4	114.9	109.1
70°	9580.9	2314.9	313.4	231.6	190.8	126.6	124.6	128.5	109.1	93.5	85.7
72.5°	7345.8	1059.1	194.6	169.4	130.5	85.7	99.3	101.3	83.7	70.1	62.3
75°	4324.2	453.7	122.7	109.1	66.2	56.5	72.1	74.0	56.5	44.8	38.9
77.5°	1471.9	171.4	77.9	64.3	33.1	31.2	46.7	46.7	31.2	17.5	13.6
80°	334.9	64.3	38.9	25.3	15.6	13.6	15.6	13.6	7.8	1.9	0.0
82.5°	95.4	25.3	15.6	9.7	5.8	5.8	1.9	0.0	0.0	0.0	0.0
85°	27.3	11.7	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	1.9	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)