

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: P883924

Luminaire Tested: **NAV-SB4C-730-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29615 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

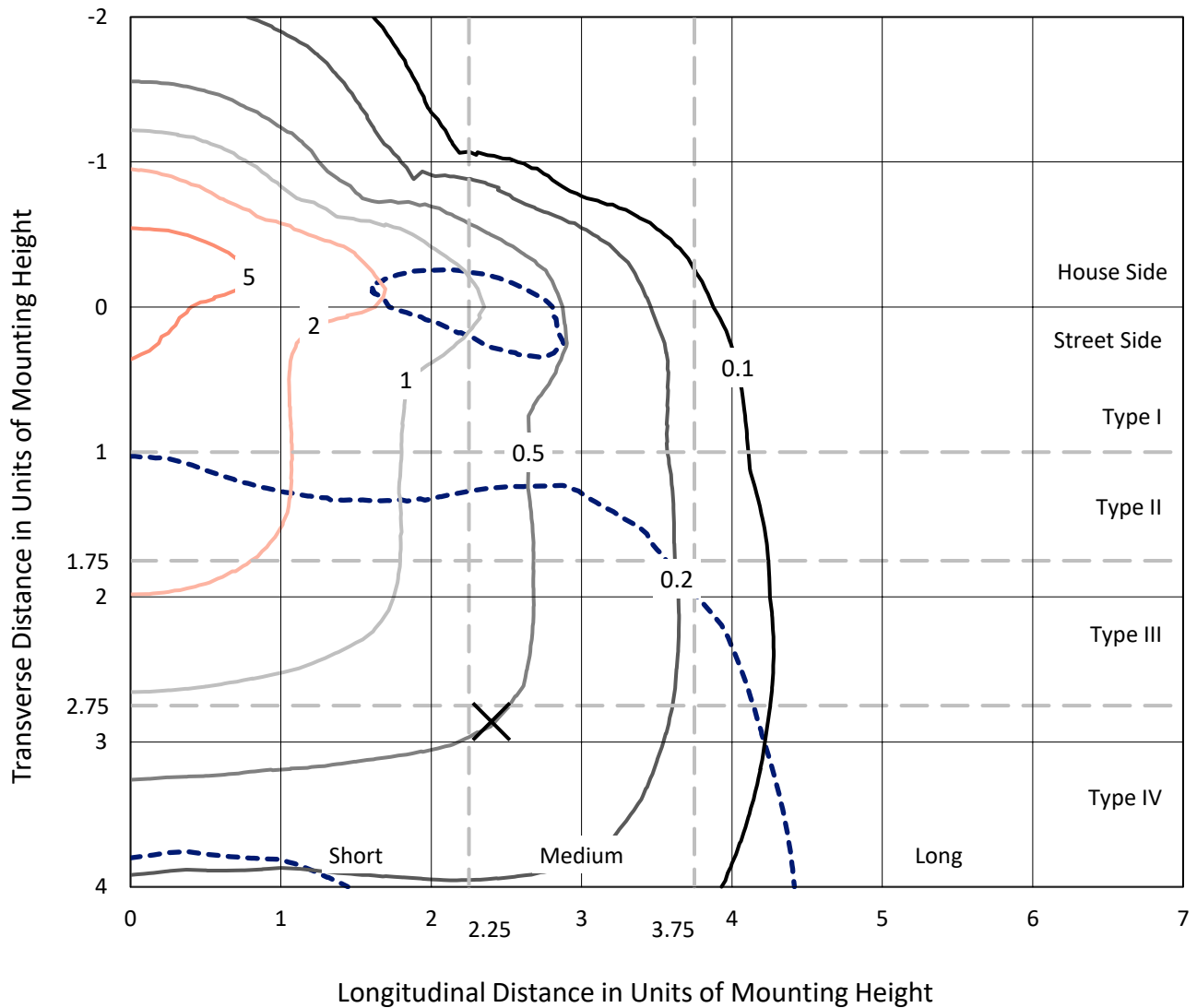
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

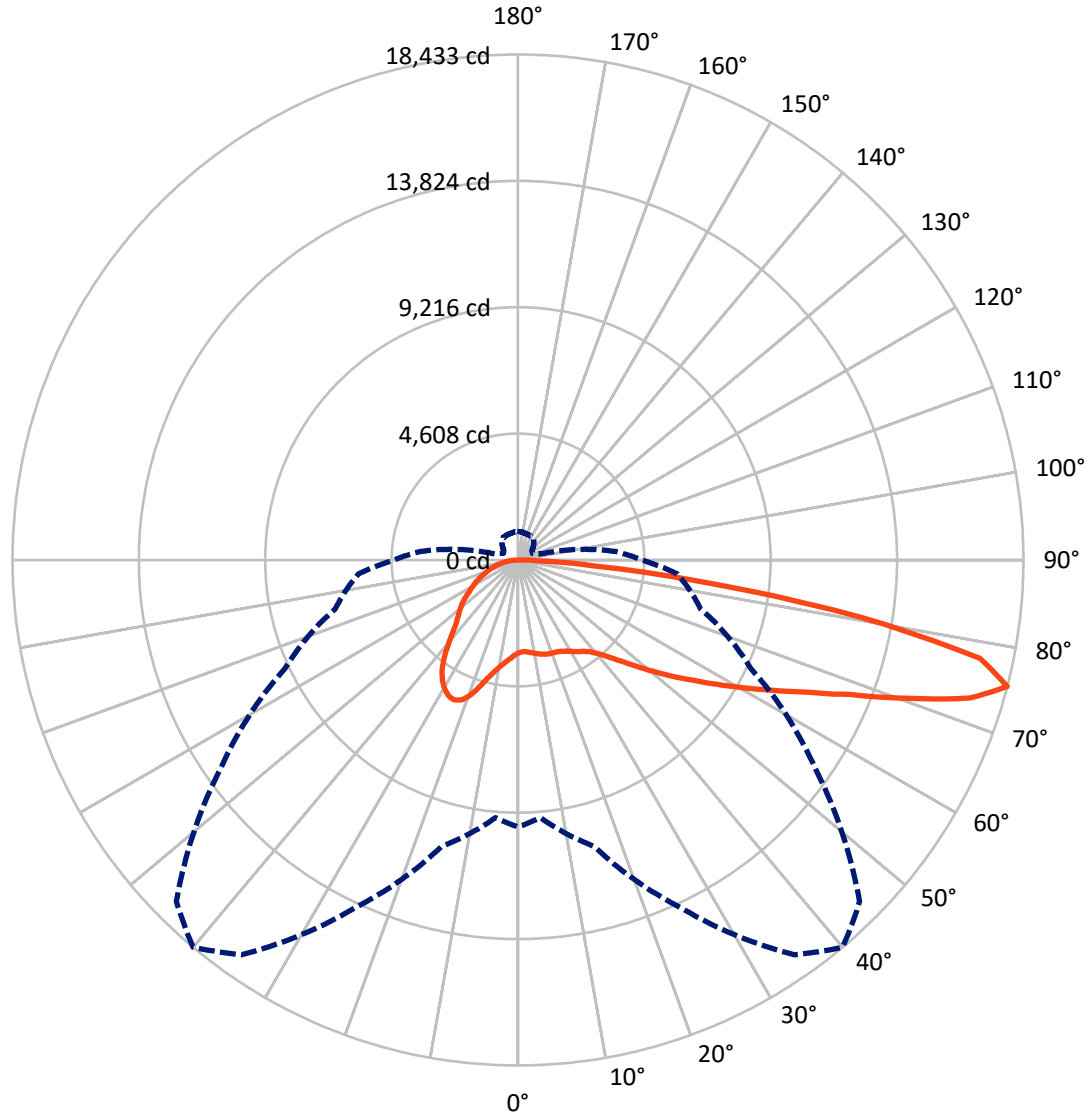
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9175.7	0.0	9175.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20439.3	0.0	20439.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	29615.0	0.0	29615.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	1.1
10°-20°	1135.0	3.8
20°-30°	2072.3	7.0
30°-40°	2939.1	9.9
40°-50°	3968.7	13.4
50°-60°	5339.0	18.0
60°-70°	6776.4	22.9
70°-80°	6150.0	20.8
80°-90°	896.5	3.0
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°	29615.0	100.0
0°-180°	29615.0	100.0



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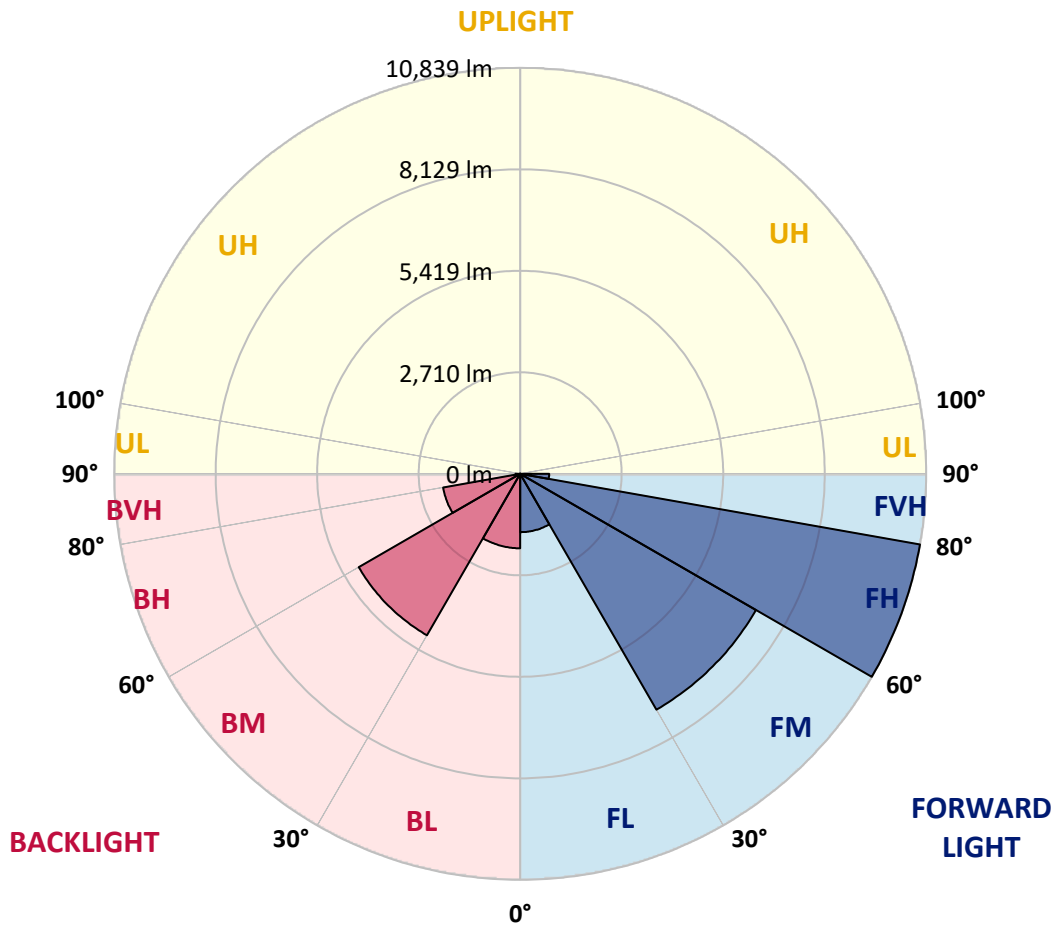
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.8	5.3			
FM (30°-60°)	7269.8	24.5			
FH (60°-80°)	10838.6	36.6			G4/12000
FVH (80°-90°)	773.0	2.6			G5
BL (0°-30°)	1987.5	6.7	B3/2500		
BM (30°-60°)	4977.0	16.8	B3/5000		
BH (60°-80°)	2087.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	123.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5
2.5°	3334.7	3353.5	3348.8	3342.5	3342.5	3344.1	3342.5	3353.5	3364.5	3375.5	3392.8
5°	3369.2	3388.1	3378.7	3370.8	3364.5	3363.0	3358.2	3356.7	3363.0	3377.1	3400.7
7.5°	3436.8	3455.6	3441.5	3427.4	3414.8	3408.5	3402.2	3392.8	3388.1	3395.9	3428.9
10°	3512.2	3531.0	3513.7	3488.6	3468.2	3460.3	3454.1	3444.6	3438.3	3443.1	3479.2
12.5°	3587.6	3606.4	3582.9	3548.3	3521.6	3516.9	3509.0	3505.9	3504.3	3502.7	3538.9
15°	3658.3	3674.0	3644.1	3603.3	3575.0	3567.1	3559.3	3564.0	3571.9	3581.3	3622.1
17.5°	3713.2	3728.9	3685.0	3631.6	3604.8	3601.7	3597.0	3612.7	3634.7	3658.3	3708.5
20°	3763.5	3779.2	3722.7	3650.4	3619.0	3619.0	3620.6	3653.5	3685.0	3719.5	3788.6
22.5°	3834.2	3846.7	3777.6	3678.7	3633.1	3636.3	3648.8	3681.8	3721.1	3768.2	3864.0
25°	3939.4	3948.8	3864.0	3732.1	3680.2	3689.7	3700.7	3716.4	3754.1	3809.0	3937.8
27.5°	4109.1	4116.9	4005.4	3826.3	3747.8	3763.5	3779.2	3768.2	3785.5	3832.6	3997.5
30°	4347.8	4352.5	4211.2	3974.0	3862.4	3870.3	3873.4	3827.9	3794.9	3832.6	4039.9
32.5°	4630.5	4629.0	4460.9	4153.0	3992.8	3985.0	3958.3	3868.7	3791.8	3824.8	4077.6
35°	5068.8	5051.5	4834.7	4404.4	4140.5	4091.8	4028.9	3914.3	3807.5	3816.9	4110.6
37.5°	5794.5	5741.1	5441.0	4815.9	4360.4	4236.3	4143.6	3988.1	3842.0	3813.8	4149.9
40°	6612.8	6545.3	6215.4	5379.8	4690.2	4490.7	4341.5	4093.3	3898.6	3827.9	4208.0
42.5°	7583.5	7487.7	7132.7	6044.2	5108.0	4819.0	4594.4	4226.9	3981.8	3873.4	4286.5
45°	8775.7	8648.5	8145.9	6793.4	5634.2	5249.4	4949.4	4429.5	4109.1	3961.4	4404.4
47.5°	9980.5	10011.9	9297.2	7651.1	6265.7	5780.3	5393.9	4734.2	4294.4	4102.8	4594.4
50°	11260.6	11282.6	10442.3	8601.4	6981.9	6380.3	5893.4	5075.1	4552.0	4303.8	4878.7
52.5°	12259.6	12262.8	11482.1	9595.6	7728.0	7040.1	6432.2	5464.6	4850.4	4570.9	5257.3
55°	12884.8	12876.9	12210.9	10536.5	8585.7	7732.8	7029.1	5907.6	5214.9	4885.0	5733.2
57.5°	13338.7	13315.2	12713.6	11345.5	9499.8	8551.1	7704.5	6410.2	5645.2	5258.8	6359.9
60°	13511.5	13497.4	13054.4	12044.4	10461.1	9455.9	8483.6	6972.5	6133.7	5700.2	7165.7
62.5°	13577.5	13604.2	13389.0	12721.4	11490.0	10458.0	9339.6	7644.8	6683.5	6199.7	8015.5
65°	13809.9	13858.6	13814.7	13607.3	12652.3	11631.3	10475.3	8444.3	7283.5	6735.3	8903.0
67.5°	14270.2	14318.9	14337.7	14667.6	14072.3	13093.7	11892.1	9440.1	7985.6	7291.4	9570.5
70°	14259.2	14245.0	14578.0	15511.1	15850.3	15118.4	13802.1	10665.3	8822.8	7753.2	9655.3
72.5°	12979.0	12865.9	13652.9	15501.6	17330.0	17232.6	16134.6	12245.5	9545.4	7809.7	8378.3
75°	9737.0	9435.4	10825.5	13970.2	17576.6	18432.6	17617.4	13225.6	9374.2	6900.3	5830.6
77.5°	4164.0	3860.9	5499.2	10341.7	15731.0	17231.0	16257.2	11538.7	7483.0	4563.0	2863.5
80°	1090.1	1088.5	1661.8	4688.7	10698.3	12724.6	11163.2	7451.6	4275.6	1630.4	790.1
82.5°	450.8	439.8	611.0	1823.6	5227.4	7140.6	5827.4	3323.7	1544.0	441.4	262.3
85°	168.1	166.5	296.9	629.9	1844.0	2945.1	2131.5	849.8	384.8	215.2	117.8
87.5°	47.1	45.6	64.4	218.3	449.2	681.7	364.4	139.8	108.4	84.8	34.6
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°	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5	3386.5
2.5°	3397.5	3405.4	3419.5	3430.5	3444.6	3460.3	3482.3	3496.5	3510.6	3520.0	3513.7
5°	3411.6	3428.9	3465.1	3501.2	3543.6	3582.9	3628.4	3661.4	3688.1	3696.0	3699.1
7.5°	3443.1	3471.3	3532.6	3593.9	3661.4	3725.8	3791.8	3848.3	3893.9	3911.1	3912.7
10°	3498.0	3535.7	3622.1	3708.5	3798.0	3897.0	3981.8	4063.5	4127.9	4154.6	4156.2
12.5°	3567.1	3614.3	3727.4	3846.7	3970.8	4107.5	4217.4	4318.0	4398.1	4434.2	4434.2
15°	3656.7	3717.9	3862.4	4022.7	4204.9	4394.9	4534.7	4646.2	4735.8	4779.8	4776.6
17.5°	3754.1	3835.7	4018.0	4259.8	4520.6	4770.3	4933.7	5015.4	5108.0	5150.5	5148.9
20°	3848.3	3948.8	4209.6	4561.4	4908.6	5174.0	5306.0	5327.9	5334.2	5338.9	5351.5
22.5°	3945.7	4080.8	4449.9	4941.5	5313.8	5497.6	5516.4	5422.2	5290.3	5229.0	5246.3
25°	4052.5	4231.6	4764.1	5360.9	5662.5	5684.5	5540.0	5310.7	5060.9	4946.3	4963.5
27.5°	4156.2	4405.9	5141.0	5761.5	5913.8	5720.6	5409.6	5084.5	4782.9	4662.0	4676.1
30°	4259.8	4605.4	5557.3	6111.7	6028.5	5631.1	5203.9	4841.0	4537.9	4410.6	4424.8
32.5°	4365.1	4837.9	6036.4	6364.6	6008.1	5441.0	4947.8	4567.7	4300.7	4167.2	4184.5
35°	4484.5	5123.8	6490.3	6502.9	5871.4	5161.5	4610.1	4241.0	4008.5	3901.7	3925.3
37.5°	4640.0	5486.6	6890.8	6537.4	5632.7	4751.5	4190.7	3854.6	3663.0	3614.3	3648.8
40°	4833.2	5923.3	7197.1	6482.4	5279.3	4253.6	3732.1	3463.5	3355.1	3366.1	3403.8
42.5°	5084.5	6411.8	7412.3	6341.1	4787.6	3739.9	3330.0	3210.6	3262.4	3306.4	3347.2
45°	5411.2	6919.1	7545.8	6100.8	4231.6	3304.8	3092.8	3121.1	3160.3	3165.0	3196.5
47.5°	5829.0	7432.7	7633.8	5737.9	3664.5	2998.5	2942.0	2948.3	2940.4	2907.4	2932.6
50°	6350.5	7932.2	7712.3	5257.3	3182.3	2806.9	2731.5	2709.5	2601.1	2494.3	2508.5
52.5°	6944.2	8390.9	7745.3	4660.4	2806.9	2646.7	2524.2	2386.0	2183.3	2150.3	2161.3
55°	7604.0	8815.0	7660.5	3926.8	2491.2	2440.9	2255.6	2089.1	2067.1	2038.8	2043.5
57.5°	8392.5	9272.1	7487.7	3108.5	2167.6	2200.6	2020.0	2038.8	1999.6	1955.6	1947.7
60°	9254.8	9744.9	7184.6	2362.4	1833.1	1900.6	1958.7	1957.1	1946.1	1910.0	1897.5
62.5°	10030.7	10055.9	6587.7	1809.5	1539.3	1668.1	1826.8	1825.2	1815.8	1795.4	1787.5
65°	10492.5	10008.8	5591.8	1424.7	1297.4	1476.5	1647.7	1660.3	1661.8	1660.3	1660.3
67.5°	10410.9	9457.4	4225.3	1134.1	1097.9	1281.7	1470.2	1487.5	1500.1	1503.2	1506.3
70°	9487.3	8246.4	2755.1	904.7	920.5	1110.5	1302.1	1319.4	1330.4	1343.0	1349.3
72.5°	7395.0	6063.1	1577.0	732.0	765.0	962.9	1135.6	1156.1	1162.3	1185.9	1195.3
75°	4506.5	3565.6	851.3	576.5	628.3	823.1	970.7	994.3	1005.3	1033.5	1036.7
77.5°	2142.5	1544.0	485.4	449.2	505.8	672.3	819.9	846.6	816.8	832.5	819.9
80°	724.1	573.3	306.3	342.4	386.4	524.6	656.6	683.3	620.4	617.3	611.0
82.5°	252.9	232.5	194.8	227.8	249.7	375.4	496.4	530.9	461.8	460.2	438.2
85°	99.0	94.2	108.4	124.1	149.2	230.9	326.7	344.0	284.3	229.3	226.2
87.5°	20.4	22.0	26.7	28.3	45.6	80.1	117.8	144.5	114.7	97.4	89.5
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)