

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: P968281

Luminaire Tested: **NAV-SB5B-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30576.8 lumens
Efficiency: N/A
Efficacy: 167.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 182.7
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



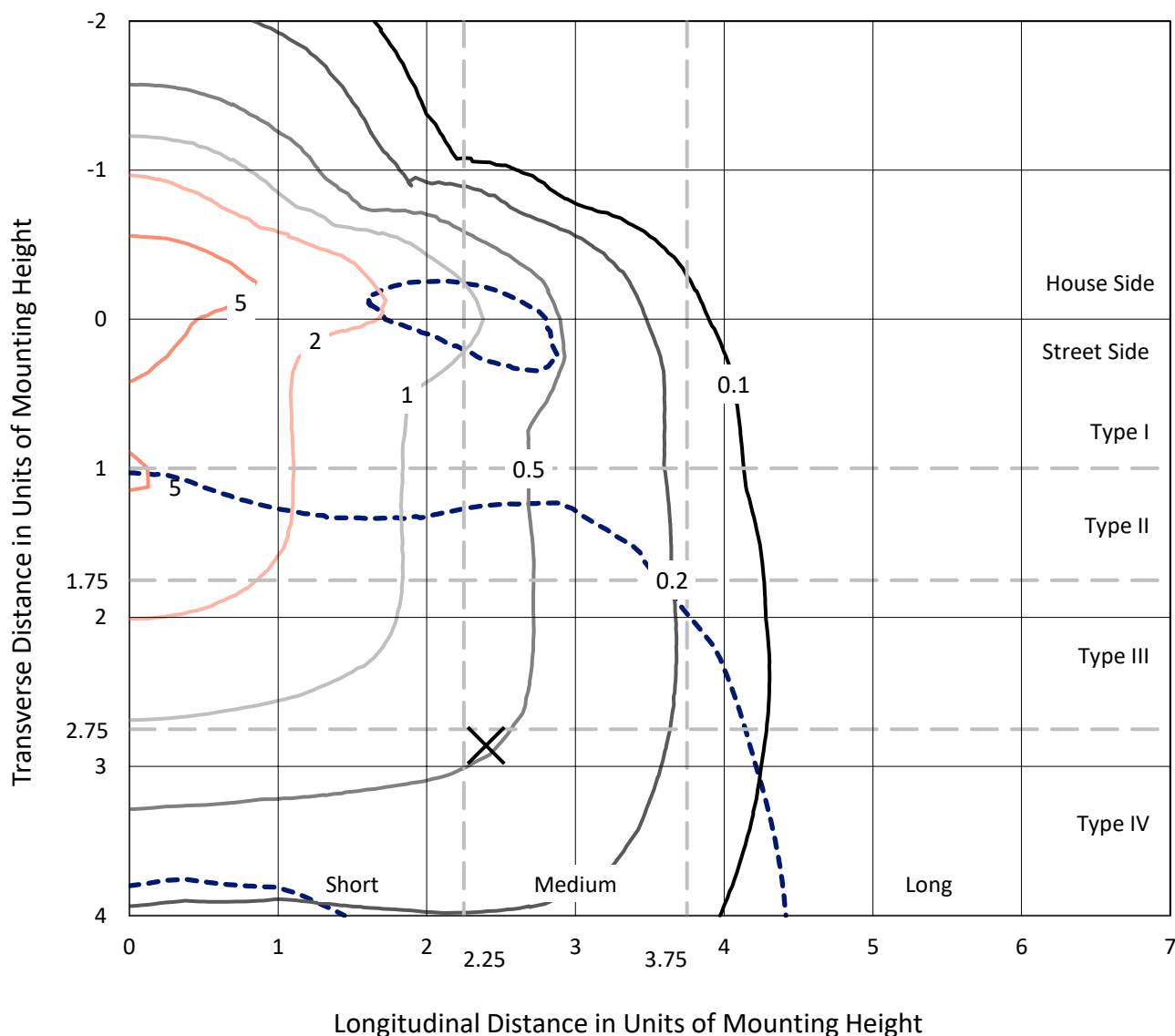
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

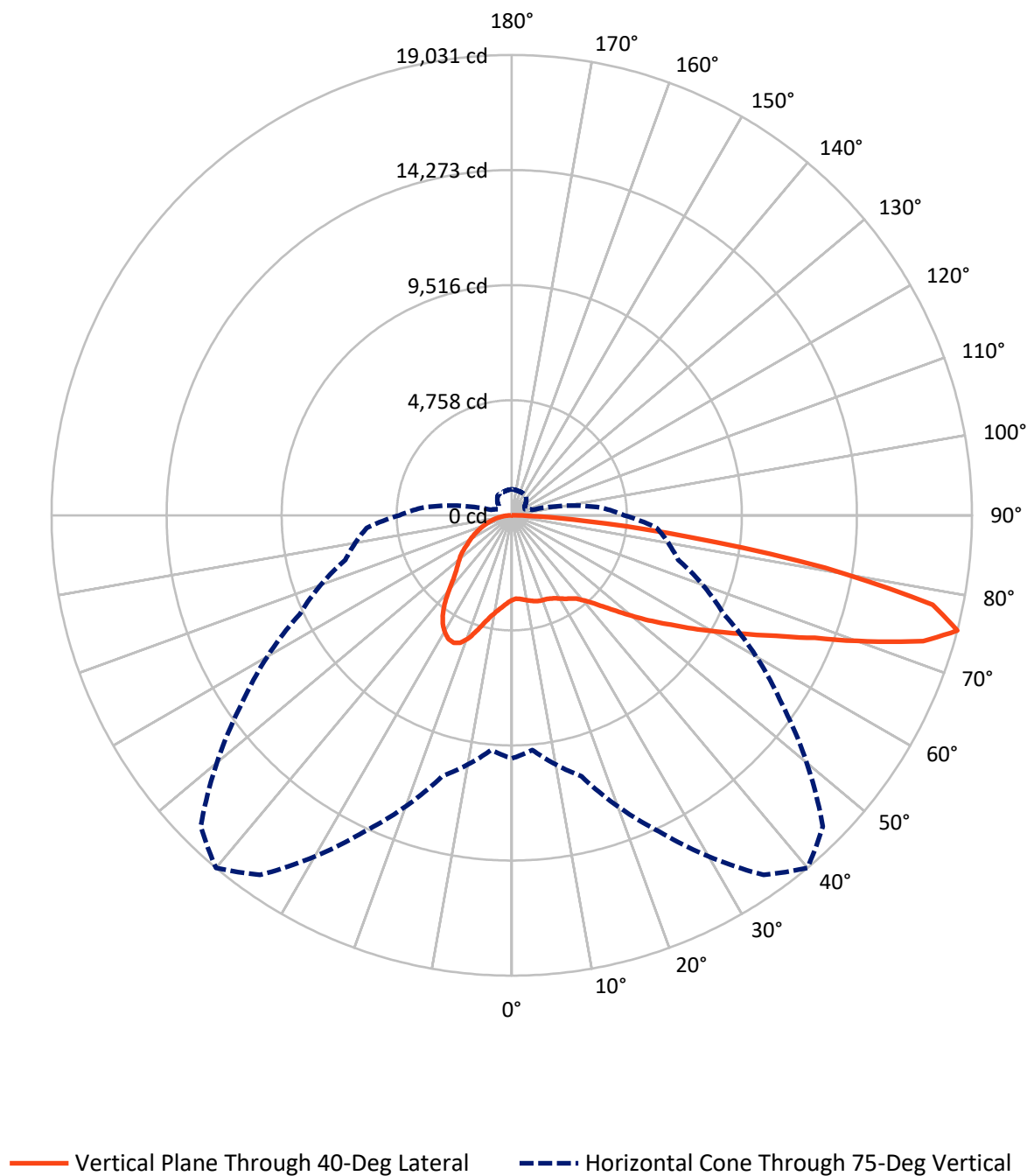
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9473.7	0.0	9473.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	21103.1	0.0	21103.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	30576.8	0.0	30576.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.0	1.1
10°-20°	1171.8	3.8
20°-30°	2139.6	7.0
30°-40°	3034.6	9.9
40°-50°	4097.6	13.4
50°-60°	5512.4	18.0
60°-70°	6996.5	22.9
70°-80°	6349.7	20.8
80°-90°	925.6	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°	30576.8	100.0
0°-180°	30576.8	100.0

Coefficient of Utilization



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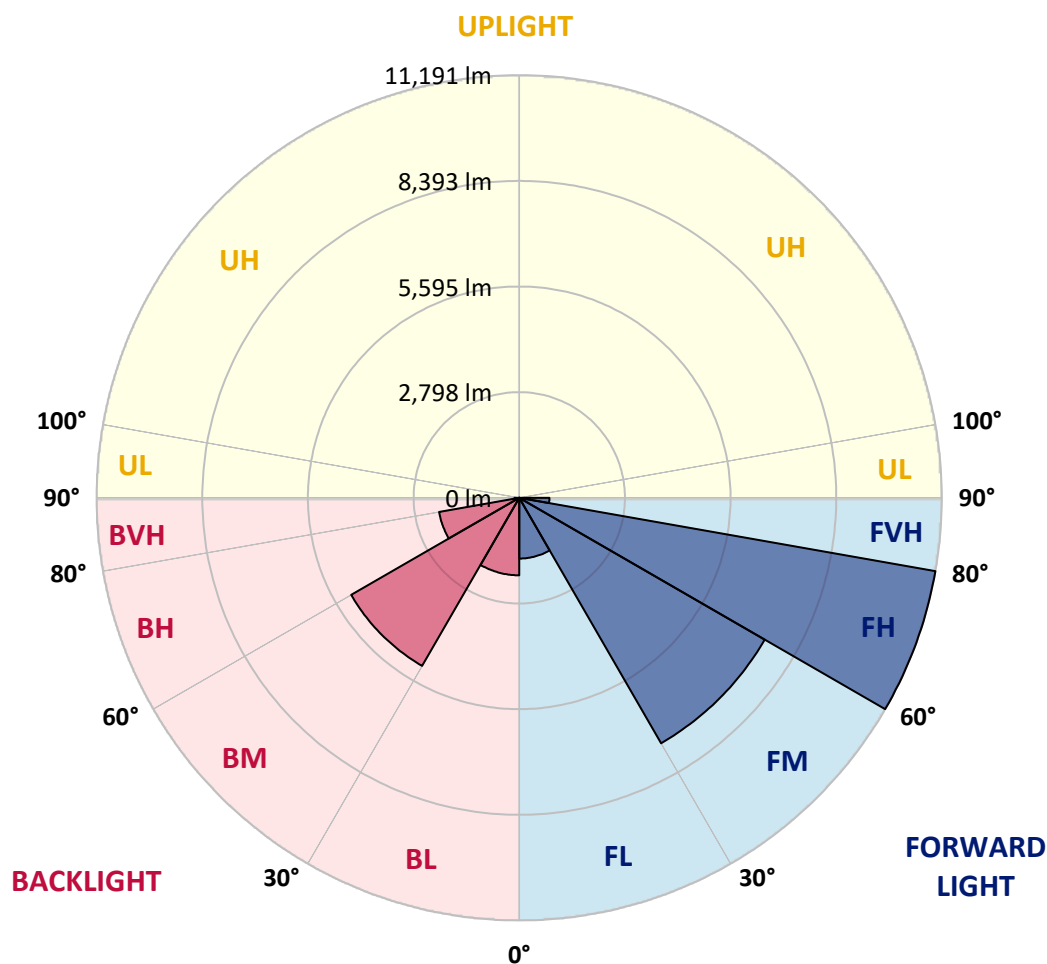
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1608.4	5.3			
FM	(30°-60°)	7505.9	24.5			
FH	(60°-80°)	11190.6	36.6			G4/12000
FVH	(80°-90°)	798.2	2.6			G5
BL	(0°-30°)	2052.1	6.7	B3/2500		
BM	(30°-60°)	5138.6	16.8	B4/8500		
BH	(60°-80°)	2155.5	7.0	B3/2500		G3/2500
BVH	(80°-90°)	127.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5
2.5°	3443.0	3462.4	3457.5	3451.1	3451.1	3452.7	3451.1	3462.4	3473.8	3485.1	3502.9
5°	3478.6	3498.1	3488.4	3480.3	3473.8	3472.2	3467.3	3465.7	3472.2	3486.7	3511.1
7.5°	3548.3	3567.8	3553.3	3538.7	3525.7	3519.2	3512.7	3502.9	3498.1	3506.2	3540.2
10°	3626.2	3645.7	3627.9	3602.0	3580.8	3572.7	3566.2	3556.5	3550.0	3554.9	3592.2
12.5°	3704.0	3723.5	3699.2	3663.6	3636.0	3631.1	3623.0	3619.8	3618.1	3616.5	3653.8
15°	3777.0	3793.3	3762.5	3720.3	3691.1	3683.0	3674.9	3679.7	3687.8	3697.6	3739.7
17.5°	3833.8	3850.0	3804.6	3749.4	3721.9	3718.7	3713.8	3730.1	3752.7	3777.0	3829.0
20°	3885.7	3902.0	3843.5	3768.9	3736.5	3736.5	3738.2	3772.2	3804.6	3840.3	3911.7
22.5°	3958.7	3971.7	3900.3	3798.1	3751.1	3754.4	3767.3	3801.4	3841.9	3890.6	3989.5
25°	4067.3	4077.0	3989.5	3853.3	3799.8	3809.5	3820.9	3837.1	3875.9	3932.7	4065.8
27.5°	4242.5	4250.6	4135.5	3950.6	3869.5	3885.7	3902.0	3890.6	3908.4	3957.1	4127.4
30°	4489.0	4493.9	4347.9	4103.1	3987.9	3996.0	3999.2	3952.2	3918.2	3957.1	4171.1
32.5°	4780.9	4779.3	4605.7	4287.9	4122.4	4114.3	4086.8	3994.3	3914.9	3948.9	4210.1
35°	5233.3	5215.5	4991.8	4547.4	4275.0	4224.6	4159.8	4041.4	3931.1	3940.8	4244.1
37.5°	5982.6	5927.5	5617.7	4972.3	4502.0	4373.9	4278.1	4117.6	3966.9	3937.6	4284.7
40°	6827.5	6757.8	6417.2	5554.5	4842.5	4636.6	4482.5	4226.3	4025.2	3952.2	4344.7
42.5°	7829.8	7730.9	7364.4	6240.5	5273.9	4975.6	4743.6	4364.1	4111.2	3999.2	4425.7
45°	9060.7	8929.4	8410.4	7014.1	5817.2	5419.9	5110.1	4573.3	4242.5	4090.1	4547.4
47.5°	10304.6	10337.0	9599.1	7899.6	6469.2	5968.1	5569.1	4887.9	4433.8	4236.0	4743.6
50°	11626.4	11649.0	10781.4	8880.7	7208.7	6587.6	6084.8	5239.9	4699.8	4443.6	5037.2
52.5°	12657.7	12661.0	11855.0	9907.2	7979.0	7268.7	6641.1	5642.1	5007.9	4719.3	5428.0
55°	13303.3	13295.1	12607.5	10878.7	8864.5	7983.9	7257.3	6099.4	5384.2	5043.6	5919.4
57.5°	13771.9	13747.6	13126.5	11713.9	9808.3	8828.8	7954.7	6618.3	5828.6	5429.6	6566.5
60°	13950.4	13935.7	13478.3	12435.6	10800.8	9762.9	8759.0	7199.0	6333.0	5885.3	7398.4
62.5°	14018.4	14046.0	13823.8	13134.6	11863.1	10797.7	9642.9	7893.0	6900.5	6401.0	8275.7
65°	14258.5	14308.7	14263.3	14049.3	13063.2	12009.1	10815.5	8718.5	7520.0	6954.1	9192.1
67.5°	14733.7	14783.9	14803.4	15143.9	14529.3	13518.9	12278.3	9746.7	8245.0	7528.2	9881.3
70°	14722.3	14707.6	15051.5	16014.8	16365.0	15609.3	14250.4	11011.7	9109.4	8004.9	9968.9
72.5°	13400.5	13283.8	14096.2	16005.1	17892.8	17792.3	16658.6	12643.2	9855.4	8063.4	8650.4
75°	10053.2	9741.9	11177.1	14423.9	18147.4	19031.3	18189.5	13655.2	9678.6	7124.4	6019.9
77.5°	4299.3	3986.2	5677.8	10677.6	16241.8	17790.6	16785.1	11913.4	7726.0	4711.2	2956.4
80°	1125.4	1123.9	1715.8	4841.0	11045.7	13137.8	11525.8	7693.5	4414.4	1683.4	815.7
82.5°	465.5	454.1	630.9	1882.8	5397.1	7372.5	6016.6	3431.6	1594.2	455.7	270.8
85°	173.5	171.9	306.5	650.4	1903.9	3040.8	2200.7	877.4	397.3	222.2	121.7
87.5°	48.7	47.0	66.5	225.4	463.8	703.9	376.3	144.3	111.9	87.5	35.7
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°	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5	3496.5
2.5°	3507.9	3516.0	3530.5	3541.9	3556.5	3572.7	3595.4	3610.0	3624.6	3634.3	3627.9
5°	3522.4	3540.2	3577.6	3614.9	3658.6	3699.2	3746.3	3780.3	3807.9	3816.0	3819.3
7.5°	3554.9	3584.1	3647.4	3710.6	3780.3	3846.8	3914.9	3973.3	4020.4	4038.2	4039.8
10°	3611.7	3650.5	3739.7	3829.0	3921.3	4023.5	4111.2	4195.4	4262.0	4289.5	4291.2
12.5°	3683.0	3731.6	3848.5	3971.7	4099.8	4240.8	4354.4	4458.2	4540.9	4578.2	4578.2
15°	3775.5	3838.7	3987.9	4153.3	4341.4	4537.7	4682.0	4797.1	4889.6	4935.0	4931.8
17.5°	3875.9	3960.3	4148.5	4398.2	4667.4	4925.2	5093.9	5178.3	5273.9	5317.7	5316.1
20°	3973.3	4077.0	4346.3	4709.6	5068.0	5342.1	5478.3	5501.0	5507.4	5512.3	5525.3
22.5°	4073.9	4213.3	4594.5	5102.0	5486.4	5676.1	5695.6	5598.2	5462.0	5398.8	5416.6
25°	4184.2	4369.0	4918.8	5535.0	5846.4	5869.2	5719.9	5483.1	5225.2	5106.9	5124.7
27.5°	4291.2	4549.1	5308.0	5948.6	6105.9	5906.5	5585.3	5249.6	4938.2	4813.4	4828.0
30°	4398.2	4755.0	5737.7	6310.2	6224.3	5814.0	5372.8	4998.2	4685.3	4553.9	4568.4
32.5°	4506.8	4995.0	6232.4	6571.4	6203.2	5617.7	5108.5	4716.0	4440.4	4302.5	4320.4
35°	4630.1	5290.1	6701.0	6714.1	6062.1	5329.1	4759.8	4378.7	4138.7	4028.5	4052.7
37.5°	4790.6	5664.8	7114.6	6749.7	5815.6	4905.8	4326.8	3979.8	3781.9	3731.6	3767.3
40°	4990.1	6115.7	7430.8	6692.9	5450.7	4391.7	3853.3	3575.9	3464.1	3475.4	3514.3
42.5°	5249.6	6620.0	7653.1	6547.0	4943.1	3861.4	3438.2	3314.8	3368.4	3413.8	3456.0
45°	5587.0	7143.8	7790.9	6298.8	4369.0	3412.1	3193.2	3222.4	3263.0	3267.8	3300.3
47.5°	6018.3	7674.2	7881.7	5924.3	3783.6	3095.9	3037.6	3044.0	3035.9	3001.8	3027.8
50°	6556.7	8189.9	7962.8	5428.0	3285.6	2898.1	2820.2	2797.5	2685.6	2575.3	2590.0
52.5°	7169.8	8663.4	7996.8	4811.8	2898.1	2732.6	2606.2	2463.5	2254.3	2220.1	2231.5
55°	7850.9	9101.3	7909.3	4054.4	2572.1	2520.2	2328.8	2156.9	2134.3	2105.0	2109.9
57.5°	8665.0	9573.2	7730.9	3209.5	2238.0	2272.1	2085.6	2105.0	2064.5	2019.0	2010.9
60°	9555.4	10061.3	7417.9	2439.1	1892.6	1962.4	2022.3	2020.7	2009.3	1972.1	1959.1
62.5°	10356.5	10382.4	6801.6	1868.3	1589.4	1722.3	1886.1	1884.5	1874.7	1853.7	1845.5
65°	10833.3	10333.8	5773.4	1471.0	1339.6	1524.5	1701.2	1714.2	1715.8	1714.2	1714.2
67.5°	10749.0	9764.6	4362.5	1170.9	1133.6	1323.4	1517.9	1535.8	1548.8	1552.1	1555.2
70°	9795.4	8514.2	2844.6	934.1	950.4	1146.6	1344.4	1362.2	1373.6	1386.6	1393.1
72.5°	7635.2	6260.0	1628.2	755.7	789.8	994.1	1172.5	1193.6	1200.1	1224.5	1234.2
75°	4652.8	3681.4	879.0	595.2	648.7	849.8	1002.2	1026.5	1037.9	1067.1	1070.3
77.5°	2212.1	1594.2	501.1	463.8	522.2	694.1	846.5	874.1	843.3	859.6	846.5
80°	747.6	591.9	316.2	353.5	398.9	541.7	677.9	705.5	640.6	637.3	630.9
82.5°	261.1	240.1	201.1	235.1	257.9	387.6	512.5	548.2	476.8	475.2	452.4
85°	102.2	97.3	111.9	128.1	154.1	238.4	337.3	355.2	293.6	236.8	233.5
87.5°	21.1	22.8	27.6	29.2	47.0	82.7	121.7	149.2	118.4	100.6	92.5
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)