

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: P968932

Luminaire Tested: **NAV-SB5C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968932
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-SB5C-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34538.4 lumens
Efficiency: N/A
Efficacy: 138.4 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): 249.5
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



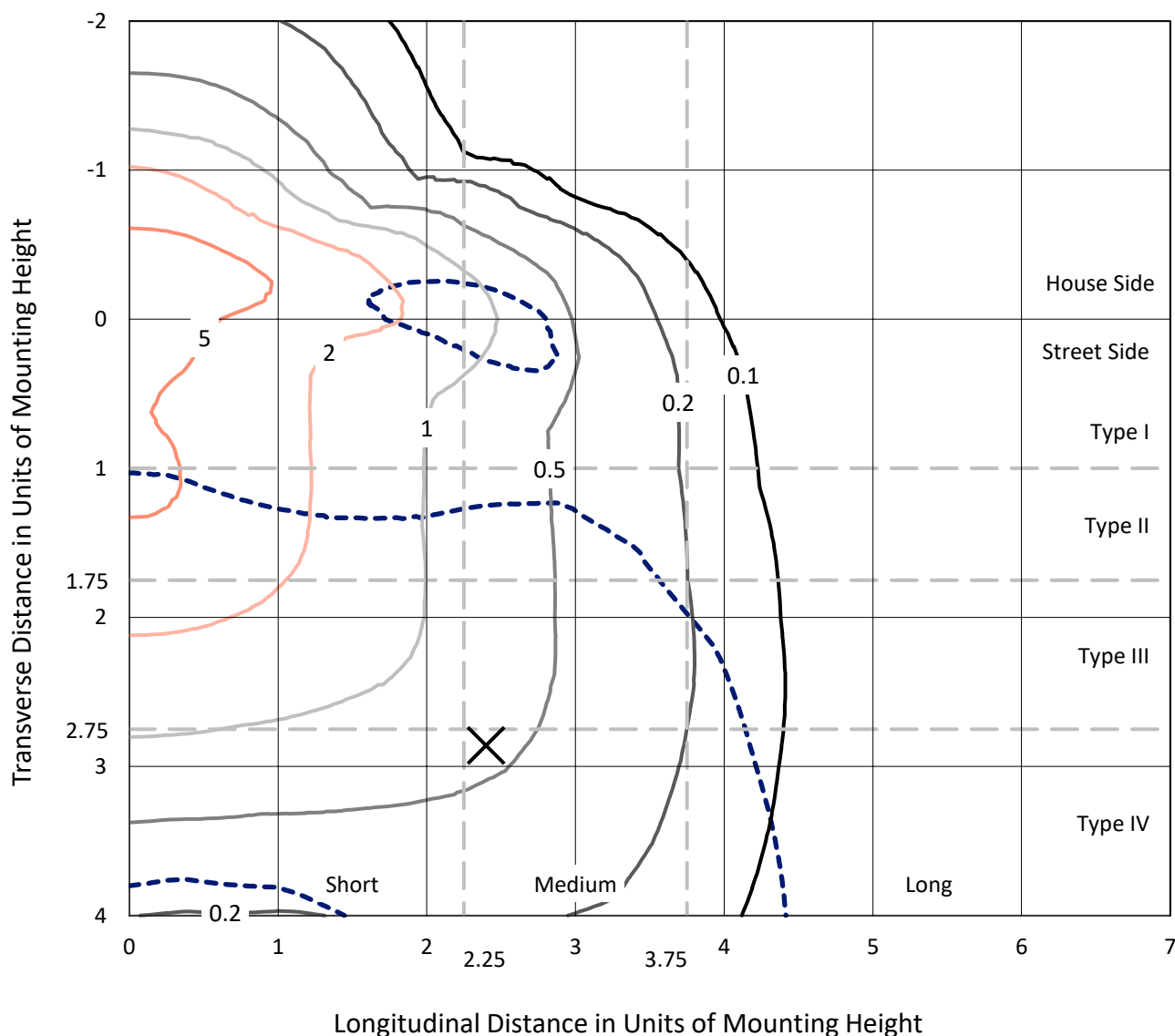
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

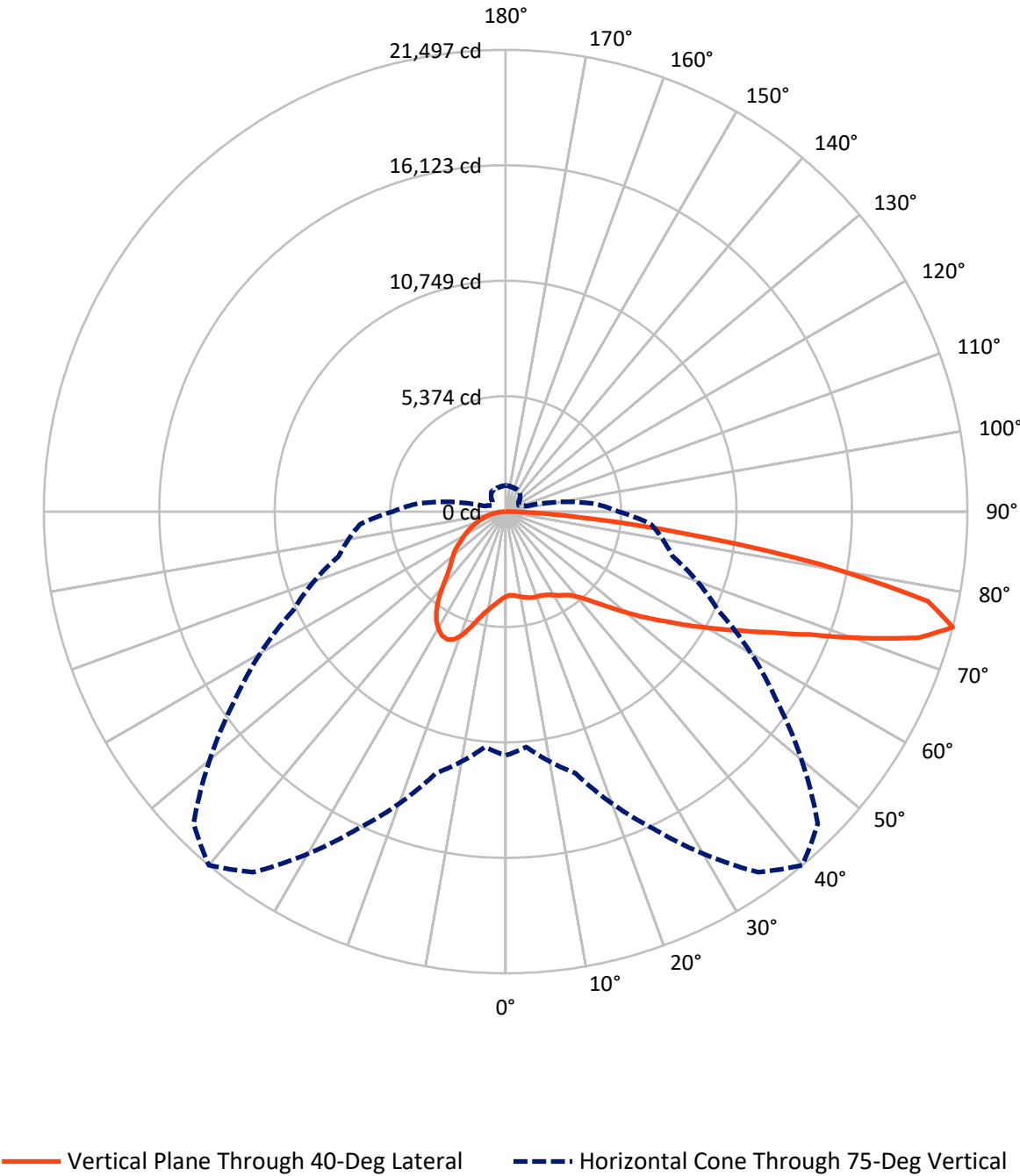
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	10701.1	0.0	10701.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23837.2	0.0	23837.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	34538.4	0.0	34538.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.2	1.1
10°-20°	1323.6	3.8
20°-30°	2416.8	7.0
30°-40°	3427.7	9.9
40°-50°	4628.5	13.4
50°-60°	6226.6	18.0
60°-70°	7902.9	22.9
70°-80°	7172.4	20.8
80°-90°	1045.5	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°	34538.4	100.0
0°-180°	34538.4	100.0

Coefficient of Utilization



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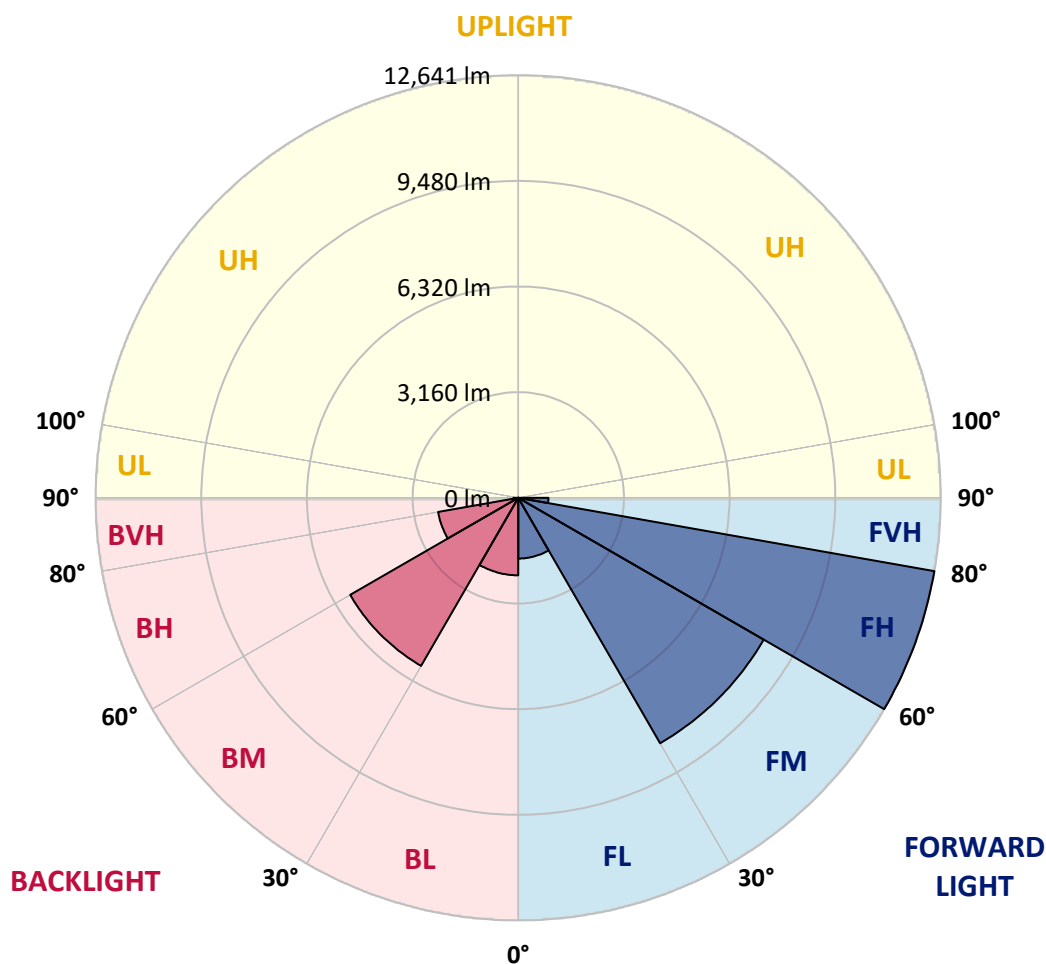
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1816.8	5.3			
FM	(30°-60°)	8478.4	24.5			
FH	(60°-80°)	12640.5	36.6			G5
FVH	(80°-90°)	901.6	2.6			G5
BL	(0°-30°)	2318.0	6.7	B3/2500		
BM	(30°-60°)	5804.4	16.8	B4/8500		
BH	(60°-80°)	2434.8	7.0	B3/2500		G3/2500
BVH	(80°-90°)	143.9	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°	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5
2.5°	3889.1	3911.1	3905.6	3898.2	3898.2	3900.0	3898.2	3911.1	3923.9	3936.7	3956.8
5°	3929.3	3951.4	3940.3	3931.2	3923.9	3922.1	3916.5	3914.7	3922.1	3938.6	3966.0
7.5°	4008.2	4030.1	4013.6	3997.1	3982.5	3975.2	3967.9	3956.8	3951.4	3960.5	3998.9
10°	4096.1	4118.0	4097.8	4068.5	4044.8	4035.6	4028.2	4017.3	4010.0	4015.4	4057.6
12.5°	4183.9	4206.0	4178.5	4138.2	4107.1	4101.5	4092.4	4088.7	4086.9	4085.0	4127.2
15°	4266.5	4284.7	4250.0	4202.3	4169.3	4160.2	4151.0	4156.5	4165.7	4176.7	4224.3
17.5°	4330.5	4348.9	4297.5	4235.3	4204.1	4200.4	4195.0	4213.3	4239.0	4266.5	4325.1
20°	4389.2	4407.5	4341.5	4257.2	4220.6	4220.6	4222.5	4260.9	4297.5	4337.9	4418.5
22.5°	4471.6	4486.2	4405.7	4290.2	4237.1	4240.7	4255.4	4293.9	4339.7	4394.7	4506.4
25°	4594.4	4605.3	4506.4	4352.6	4292.1	4303.1	4315.9	4334.2	4378.2	4442.2	4592.5
27.5°	4792.2	4801.3	4671.2	4462.4	4370.8	4389.2	4407.5	4394.7	4414.8	4469.7	4662.1
30°	5070.6	5076.1	4911.3	4634.6	4504.6	4513.7	4517.4	4464.3	4425.8	4469.7	4711.6
32.5°	5400.3	5398.6	5202.5	4843.4	4656.6	4647.5	4616.3	4511.8	4422.2	4460.6	4755.5
35°	5911.5	5891.3	5638.5	5136.6	4828.8	4772.0	4698.7	4565.0	4440.4	4451.5	4794.0
37.5°	6757.7	6695.5	6345.6	5616.5	5085.2	4940.6	4832.5	4651.1	4480.8	4447.8	4839.8
40°	7712.2	7633.4	7248.7	6274.1	5470.0	5237.3	5063.3	4773.8	4546.7	4464.3	4907.6
42.5°	8844.3	8732.5	8318.5	7049.0	5957.2	5620.2	5358.2	4929.5	4643.8	4517.4	4999.1
45°	10234.6	10086.3	9500.1	7922.8	6571.0	6122.1	5772.2	5165.9	4792.2	4620.0	5136.6
47.5°	11639.7	11676.4	10842.9	8923.0	7307.3	6741.3	6290.6	5521.3	5008.4	4784.8	5358.2
50°	13132.7	13158.3	12178.2	10031.4	8142.7	7441.1	6873.1	5918.8	5308.8	5019.3	5689.8
52.5°	14297.7	14301.4	13391.0	11190.8	9012.8	8210.5	7501.5	6373.0	5656.8	5330.7	6131.2
55°	15026.8	15017.7	14240.9	12288.2	10013.0	9018.3	8197.6	6889.6	6081.8	5697.2	6686.3
57.5°	15556.2	15528.7	14827.1	13231.6	11079.1	9972.7	8985.4	7475.8	6583.8	6133.1	7417.2
60°	15757.7	15741.2	15224.6	14046.8	12200.3	11027.9	9893.9	8131.6	7153.5	6647.8	8357.0
62.5°	15834.7	15865.9	15614.8	14836.4	13400.1	12196.6	10892.3	8915.8	7794.6	7230.4	9348.0
65°	16105.8	16162.6	16111.3	15869.5	14755.7	13565.0	12216.8	9848.1	8494.4	7855.1	10383.0
67.5°	16642.5	16699.3	16721.3	17106.0	16411.7	15270.4	13869.1	11009.5	9313.3	8503.5	11161.6
70°	16629.7	16613.2	17001.6	18089.7	18485.4	17631.7	16096.6	12438.4	10289.6	9042.1	11260.5
72.5°	15136.8	15004.9	15922.7	18078.7	20211.1	20097.5	18816.9	14281.2	11132.3	9108.0	9771.2
75°	11355.8	11004.1	12625.2	16292.7	20498.7	21497.0	20546.2	15424.3	10932.6	8047.4	6800.0
77.5°	4856.2	4502.7	6413.4	12061.1	18346.2	20095.6	18959.8	13456.9	8727.1	5321.6	3339.4
80°	1271.3	1269.5	1938.1	5468.2	12476.9	14840.0	13019.1	8690.4	4986.3	1901.5	921.5
82.5°	525.7	512.9	712.6	2126.8	6096.5	8327.7	6796.3	3876.2	1800.7	514.8	306.0
85°	196.0	194.1	346.2	734.6	2150.7	3434.8	2485.8	991.1	448.8	250.9	137.4
87.5°	54.9	53.1	75.1	254.6	523.9	795.0	425.0	163.1	126.4	98.9	40.3
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°	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5	3949.5
2.5°	3962.3	3971.5	3988.0	4000.8	4017.3	4035.6	4061.3	4077.8	4094.3	4105.2	4097.8
5°	3978.8	3998.9	4041.1	4083.2	4132.7	4178.5	4231.6	4270.0	4301.2	4310.4	4314.0
7.5°	4015.4	4048.4	4119.9	4191.3	4270.0	4345.2	4422.2	4488.1	4541.2	4561.4	4563.2
10°	4079.6	4123.6	4224.3	4325.1	4429.4	4544.8	4643.8	4739.1	4814.1	4845.3	4847.1
12.5°	4160.2	4215.1	4347.0	4486.2	4631.0	4790.3	4918.6	5035.8	5129.2	5171.3	5171.3
15°	4264.6	4336.1	4504.6	4691.4	4903.9	5125.6	5288.6	5418.7	5523.1	5574.4	5570.7
17.5°	4378.2	4473.4	4685.9	4968.1	5272.1	5563.4	5753.9	5849.2	5957.2	6006.7	6004.9
20°	4488.1	4605.3	4909.4	5319.7	5724.6	6034.2	6188.0	6213.7	6221.0	6226.6	6241.2
22.5°	4601.6	4759.2	5189.7	5763.1	6197.3	6411.6	6433.5	6323.6	6169.8	6098.3	6118.4
25°	4726.3	4935.1	5556.0	6252.2	6603.9	6629.5	6461.0	6193.6	5902.3	5768.6	5788.7
27.5°	4847.1	5138.4	5995.7	6719.3	6897.0	6671.6	6309.0	5929.7	5578.0	5437.0	5453.5
30°	4968.1	5371.0	6481.2	7127.8	7030.7	6567.3	6069.0	5645.8	5292.3	5143.9	5160.4
32.5°	5090.8	5642.1	7039.9	7422.7	7006.9	6345.6	5770.3	5327.0	5015.6	4859.9	4880.1
35°	5230.0	5975.5	7569.3	7584.0	6847.5	6019.5	5376.5	4946.0	4674.9	4550.4	4577.9
37.5°	5411.4	6398.8	8036.4	7624.3	6569.1	5541.5	4887.4	4495.4	4271.9	4215.1	4255.4
40°	5636.7	6908.0	8393.6	7560.1	6156.9	4960.7	4352.6	4039.3	3912.8	3925.6	3969.6
42.5°	5929.7	7477.7	8644.6	7395.3	5583.6	4361.7	3883.5	3744.3	3804.8	3856.0	3903.7
45°	6310.8	8069.4	8800.3	7114.9	4935.1	3854.2	3607.0	3639.9	3685.7	3691.2	3727.8
47.5°	6798.1	8668.4	8902.8	6691.8	4273.7	3497.0	3431.1	3438.5	3429.2	3390.8	3420.1
50°	7406.2	9250.9	8994.5	6131.2	3711.3	3273.5	3185.6	3160.0	3033.6	2909.1	2925.5
52.5°	8098.7	9785.9	9032.9	5435.2	3273.5	3086.7	2943.8	2782.6	2546.3	2507.9	2520.7
55°	8868.1	10280.4	8934.0	4579.7	2905.4	2846.7	2630.6	2436.4	2410.7	2377.8	2383.2
57.5°	9787.7	10813.5	8732.5	3625.2	2528.0	2566.5	2355.8	2377.8	2332.0	2280.7	2271.5
60°	10793.4	11364.9	8379.0	2755.1	2137.8	2216.6	2284.3	2282.5	2269.7	2227.5	2212.9
62.5°	11698.3	11727.6	7682.9	2110.3	1795.2	1945.4	2130.5	2128.6	2117.6	2093.9	2084.6
65°	12236.9	11672.7	6521.5	1661.5	1513.1	1722.0	1921.7	1936.3	1938.1	1936.3	1936.3
67.5°	12141.6	11029.7	4927.7	1322.7	1280.4	1494.8	1714.6	1734.8	1749.5	1753.1	1756.7
70°	11064.5	9617.3	3213.1	1055.1	1073.5	1295.1	1518.6	1538.7	1551.6	1566.2	1573.6
72.5°	8624.5	7071.1	1839.2	853.6	892.2	1122.9	1324.4	1348.3	1355.6	1383.0	1394.1
75°	5255.6	4158.3	992.9	672.3	732.8	959.9	1132.1	1159.6	1172.4	1205.4	1209.0
77.5°	2498.6	1800.7	566.0	523.9	589.9	784.0	956.2	987.4	952.5	970.9	956.2
80°	844.5	668.6	357.2	399.3	450.6	611.8	765.7	796.8	723.5	720.0	712.6
82.5°	294.9	271.1	227.1	265.6	291.3	437.8	578.9	619.2	538.5	536.7	511.1
85°	115.4	109.9	126.4	144.7	174.0	269.3	381.0	401.2	331.6	267.4	263.8
87.5°	23.8	25.6	31.2	33.0	53.1	93.4	137.4	168.5	133.8	113.6	104.4
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)