

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: P970358

Luminaire Tested: **NAV-SB6B-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970358
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-SB6B-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 34695.2 lumens
Efficiency: N/A
Efficacy: 157.4 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): 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



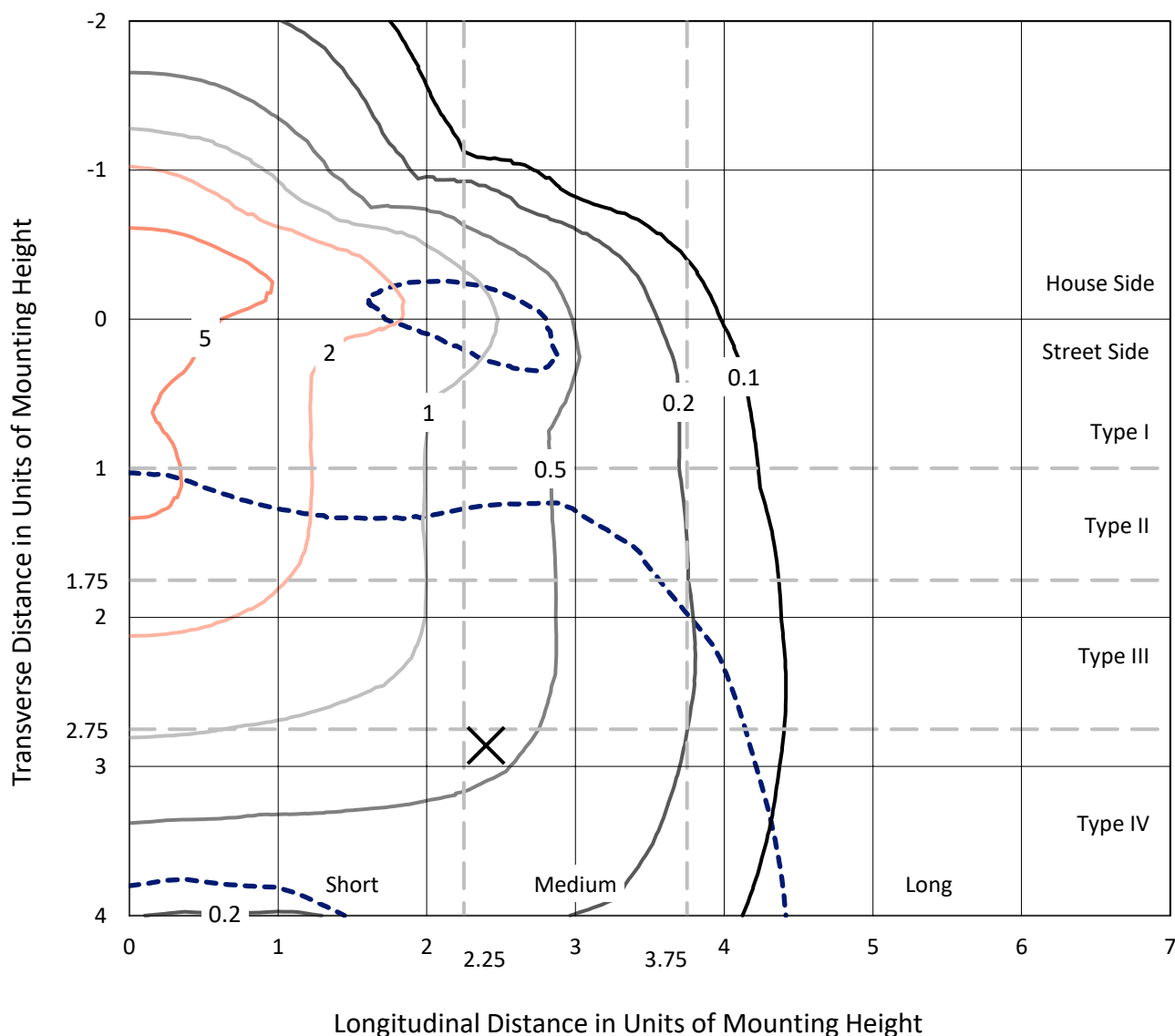
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

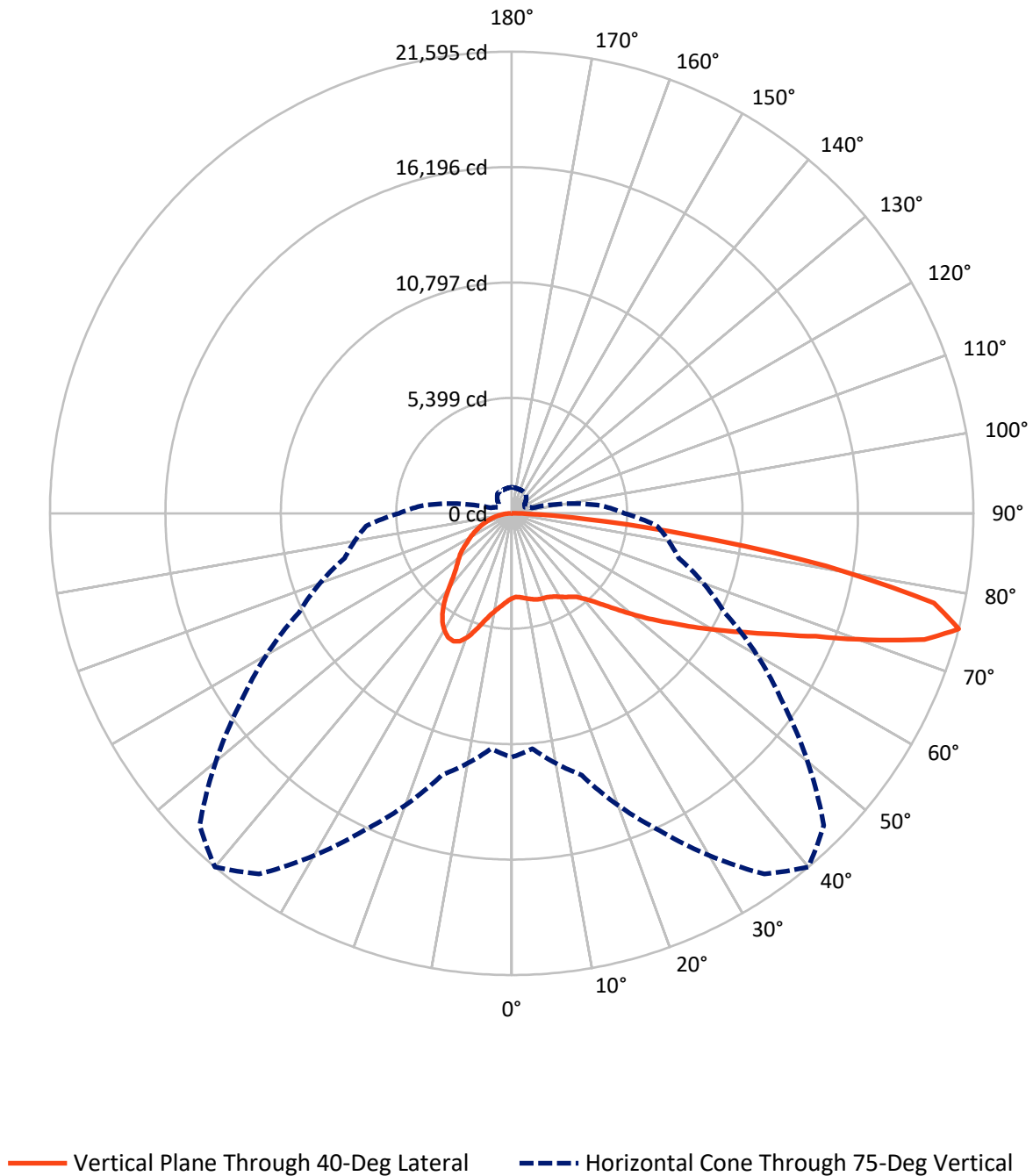
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	10749.7	0.0	10749.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23945.5	0.0	23945.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	34695.2	0.0	34695.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	1.1
10°-20°	1329.6	3.8
20°-30°	2427.8	7.0
30°-40°	3443.3	9.9
40°-50°	4649.5	13.4
50°-60°	6254.8	18.0
60°-70°	7938.8	22.9
70°-80°	7205.0	20.8
80°-90°	1050.3	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°	34695.2	100.0
0°-180°	34695.2	100.0

Coefficient of Utilization



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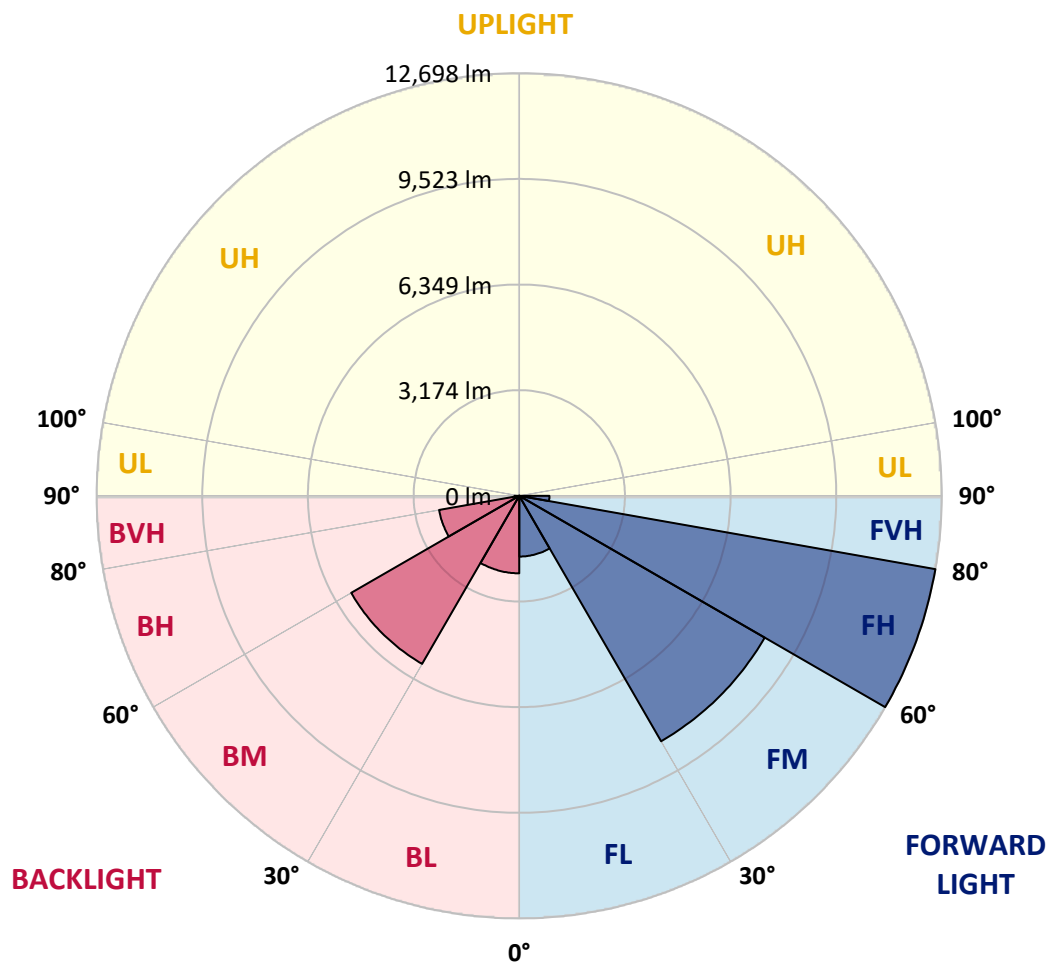
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.0	5.3			
FM	(30°-60°)	8516.9	24.5			
FH	(60°-80°)	12697.9	36.6			G5
FVH	(80°-90°)	905.7	2.6			G5
BL	(0°-30°)	2328.5	6.7	B3/2500		
BM	(30°-60°)	5830.8	16.8	B4/8500		
BH	(60°-80°)	2445.9	7.0	B3/2500		G3/2500
BVH	(80°-90°)	144.6	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°	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5
2.5°	3906.7	3928.8	3923.3	3915.9	3915.9	3917.8	3915.9	3928.8	3941.6	3954.6	3974.8
5°	3947.2	3969.3	3958.2	3949.0	3941.6	3939.8	3934.4	3932.5	3939.8	3956.4	3984.0
7.5°	4026.3	4048.4	4031.8	4015.3	4000.6	3993.2	3985.8	3974.8	3969.3	3978.5	4017.2
10°	4114.7	4136.7	4116.5	4087.1	4063.1	4054.0	4046.6	4035.5	4028.1	4033.7	4076.0
12.5°	4203.0	4225.0	4197.5	4157.0	4125.7	4120.2	4111.0	4107.3	4105.4	4103.6	4145.9
15°	4285.8	4304.2	4269.2	4221.4	4188.3	4179.0	4169.9	4175.3	4184.6	4195.6	4243.5
17.5°	4350.2	4368.7	4317.1	4254.5	4223.2	4219.5	4214.0	4232.4	4258.2	4285.8	4344.7
20°	4409.1	4427.5	4361.3	4276.6	4239.8	4239.8	4241.7	4280.3	4317.1	4357.6	4438.6
22.5°	4491.9	4506.6	4425.6	4309.7	4256.3	4260.0	4274.8	4313.4	4359.4	4414.6	4526.9
25°	4615.2	4626.2	4526.9	4372.2	4311.6	4322.6	4335.4	4353.9	4398.1	4462.4	4613.3
27.5°	4813.9	4823.1	4692.4	4482.7	4390.7	4409.1	4427.5	4414.6	4434.9	4490.0	4683.3
30°	5093.6	5099.2	4933.5	4655.7	4525.1	4534.2	4537.9	4484.6	4445.9	4490.0	4732.9
32.5°	5424.9	5423.1	5226.2	4865.5	4677.8	4668.6	4637.3	4532.3	4442.2	4480.9	4777.1
35°	5938.3	5918.0	5664.0	5159.8	4850.7	4793.7	4720.1	4585.7	4460.6	4471.7	4815.8
37.5°	6788.5	6725.8	6374.4	5642.0	5108.4	4962.9	4854.4	4672.3	4501.1	4468.0	4861.8
40°	7747.2	7668.0	7281.6	6302.6	5494.8	5261.1	5086.3	4795.6	4567.3	4484.6	4929.8
42.5°	8884.4	8772.2	8356.3	7081.0	5984.3	5645.7	5382.6	4952.0	4664.9	4537.9	5021.9
45°	10281.2	10132.1	9543.3	7958.8	6600.8	6149.9	5798.4	5189.4	4813.9	4641.0	5159.8
47.5°	11692.6	11729.4	10892.1	8963.5	7340.5	6771.9	6319.2	5546.4	5031.1	4806.5	5382.6
50°	13192.3	13218.1	12233.6	10076.9	8179.6	7474.8	6904.4	5945.6	5332.9	5042.1	5715.6
52.5°	14362.7	14366.3	13451.8	11241.7	9053.7	8247.8	7535.6	6402.0	5682.5	5354.9	6159.1
55°	15095.1	15085.8	14305.6	12344.0	10058.4	9059.3	8234.8	6920.9	6109.4	5723.0	6716.7
57.5°	15626.8	15599.3	14894.5	13291.7	11129.4	10017.9	9026.2	7509.8	6613.6	6161.0	7450.9
60°	15829.3	15812.8	15293.8	14110.6	12255.6	11077.9	9938.8	8168.6	7186.0	6678.1	8395.0
62.5°	15906.6	15937.8	15685.8	14903.7	13461.0	12251.9	10941.8	8956.2	7830.0	7263.3	9390.4
65°	16178.9	16236.0	16184.4	15941.5	14822.7	13626.6	12272.2	9892.9	8532.9	7890.8	10430.2
67.5°	16718.1	16775.1	16797.2	17183.7	16486.2	15339.8	13932.1	11059.5	9355.5	8542.1	11212.3
70°	16705.2	16688.6	17078.8	18171.8	18569.3	17711.8	16169.7	12494.9	10336.3	9083.1	11311.6
72.5°	15205.5	15072.9	15994.9	18160.8	20302.8	20188.7	18902.4	14346.1	11182.9	9149.5	9815.6
75°	11407.3	11054.0	12682.5	16366.6	20591.7	21594.6	20639.5	15494.4	10982.3	8084.0	6830.8
77.5°	4878.4	4523.2	6442.5	12115.8	18429.5	20186.9	19045.9	13518.0	8766.6	5345.8	3354.6
80°	1277.0	1275.2	1946.9	5493.0	12533.5	14907.4	13078.2	8729.8	5009.0	1910.1	925.6
82.5°	528.2	515.3	715.9	2136.4	6124.2	8365.5	6827.1	3893.9	1808.9	517.1	307.3
85°	196.9	195.1	347.8	737.9	2160.4	3450.4	2497.1	995.6	450.8	252.2	138.0
87.5°	55.2	53.4	75.4	255.7	526.3	798.7	426.9	163.8	127.0	99.3	40.5
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°	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5	3967.5
2.5°	3980.3	3989.5	4006.1	4018.9	4035.5	4054.0	4079.7	4096.2	4112.8	4123.9	4116.5
5°	3996.9	4017.2	4059.4	4101.7	4151.5	4197.5	4250.9	4289.5	4320.8	4330.0	4333.6
7.5°	4033.7	4066.8	4138.5	4210.4	4289.5	4365.0	4442.2	4508.5	4561.9	4582.1	4583.9
10°	4098.1	4142.2	4243.5	4344.7	4449.5	4565.6	4664.9	4760.6	4836.1	4867.3	4869.2
12.5°	4179.0	4234.3	4366.8	4506.6	4652.0	4812.1	4940.9	5058.7	5152.6	5194.8	5194.8
15°	4284.0	4355.7	4525.1	4712.7	4926.2	5148.9	5312.6	5443.3	5548.1	5599.7	5596.0
17.5°	4398.1	4493.7	4707.2	4990.6	5296.1	5588.6	5780.1	5875.7	5984.3	6034.0	6032.1
20°	4508.5	4626.2	4931.7	5343.9	5750.6	6061.5	6216.1	6241.9	6249.3	6254.8	6269.5
22.5°	4622.5	4780.8	5213.3	5789.2	6225.3	6440.7	6462.7	6352.3	6197.8	6126.0	6146.2
25°	4747.7	4957.5	5581.3	6280.6	6633.9	6659.6	6490.3	6221.6	5929.1	5794.7	5815.0
27.5°	4869.2	5161.7	6022.9	6749.8	6928.3	6702.0	6337.6	5956.7	5603.4	5461.7	5478.2
30°	4990.6	5395.4	6510.6	7160.1	7062.7	6597.1	6096.5	5671.4	5316.3	5167.2	5183.8
32.5°	5113.9	5667.7	7071.9	7456.5	7038.7	6374.4	5796.6	5351.2	5038.4	4882.0	4902.3
35°	5253.7	6002.7	7603.7	7618.4	6878.7	6046.9	5400.9	4968.5	4696.1	4571.0	4598.7
37.5°	5435.9	6427.8	8072.9	7658.9	6599.0	5566.6	4909.6	4515.8	4291.4	4234.3	4274.8
40°	5662.3	6939.4	8431.8	7594.4	6184.8	4983.2	4372.2	4057.6	3930.7	3943.5	3987.7
42.5°	5956.7	7511.6	8683.8	7428.8	5608.9	4381.5	3901.2	3761.3	3822.0	3873.6	3921.4
45°	6339.4	8106.0	8840.2	7147.3	4957.5	3871.7	3623.4	3656.5	3702.5	3707.9	3744.7
47.5°	6829.0	8707.8	8943.3	6722.3	4293.1	3512.9	3446.7	3454.0	3444.8	3406.2	3435.6
50°	7439.9	9293.0	9035.3	6159.1	3728.2	3288.4	3200.0	3174.3	3047.3	2922.2	2938.8
52.5°	8135.4	9830.3	9074.0	5459.9	3288.4	3100.7	2957.2	2795.3	2557.9	2519.2	2532.1
55°	8908.4	10327.2	8974.6	4600.5	2918.6	2859.6	2642.6	2447.5	2421.7	2388.6	2394.1
57.5°	9832.1	10862.6	8772.2	3641.7	2539.4	2578.1	2366.5	2388.6	2342.5	2291.1	2281.9
60°	10842.3	11416.6	8417.0	2767.6	2147.5	2226.6	2294.7	2292.9	2280.0	2237.7	2222.9
62.5°	11751.4	11780.8	7717.7	2119.9	1803.4	1954.3	2140.1	2138.3	2127.3	2103.3	2094.2
65°	12292.4	11725.7	6551.1	1669.0	1520.0	1729.8	1930.4	1945.0	1946.9	1945.0	1945.0
67.5°	12196.8	11079.7	4950.1	1328.6	1286.3	1501.6	1722.4	1742.7	1757.4	1761.1	1764.7
70°	11114.7	9661.0	3227.7	1060.0	1078.3	1301.0	1525.5	1545.8	1558.6	1573.4	1580.8
72.5°	8663.6	7103.1	1847.6	857.5	896.2	1128.0	1330.4	1354.3	1361.7	1389.4	1400.4
75°	5279.5	4177.2	997.4	675.4	736.1	964.2	1137.2	1164.8	1177.7	1210.8	1214.5
77.5°	2510.0	1808.9	568.6	526.3	592.6	787.6	960.5	991.9	956.9	975.3	960.5
80°	848.3	671.7	358.9	401.2	452.6	614.6	769.2	800.5	726.8	723.2	715.9
82.5°	296.2	272.3	228.2	266.8	292.6	439.8	581.5	622.0	541.0	539.2	513.4
85°	115.9	110.4	127.0	145.3	174.9	270.5	382.7	403.0	333.1	268.7	265.0
87.5°	23.9	25.7	31.3	33.1	53.4	93.9	138.0	169.3	134.4	114.1	104.9
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)