

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: P966679

Luminaire Tested: **NAV-SB4C-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31177.4 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 200.7
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



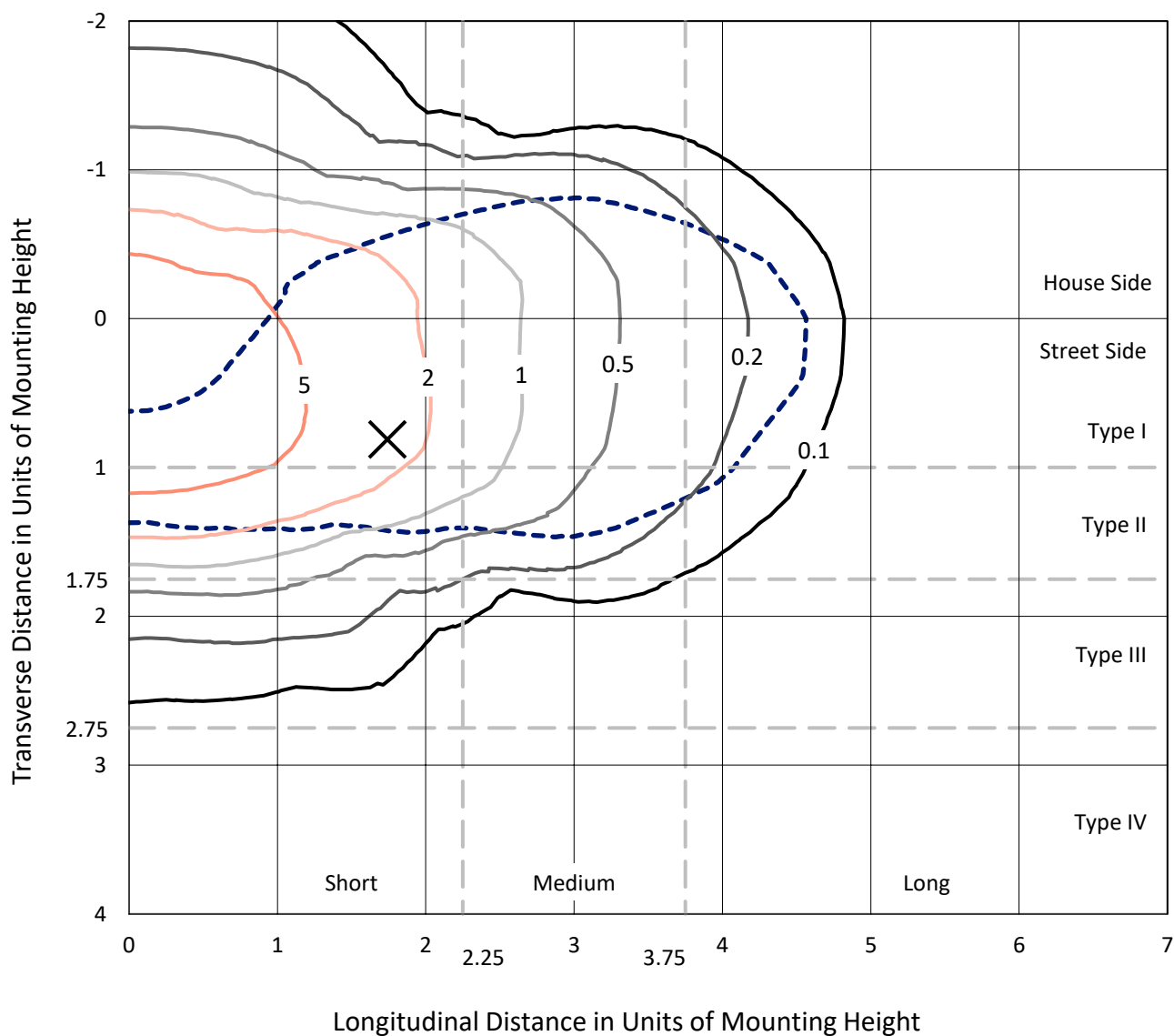
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

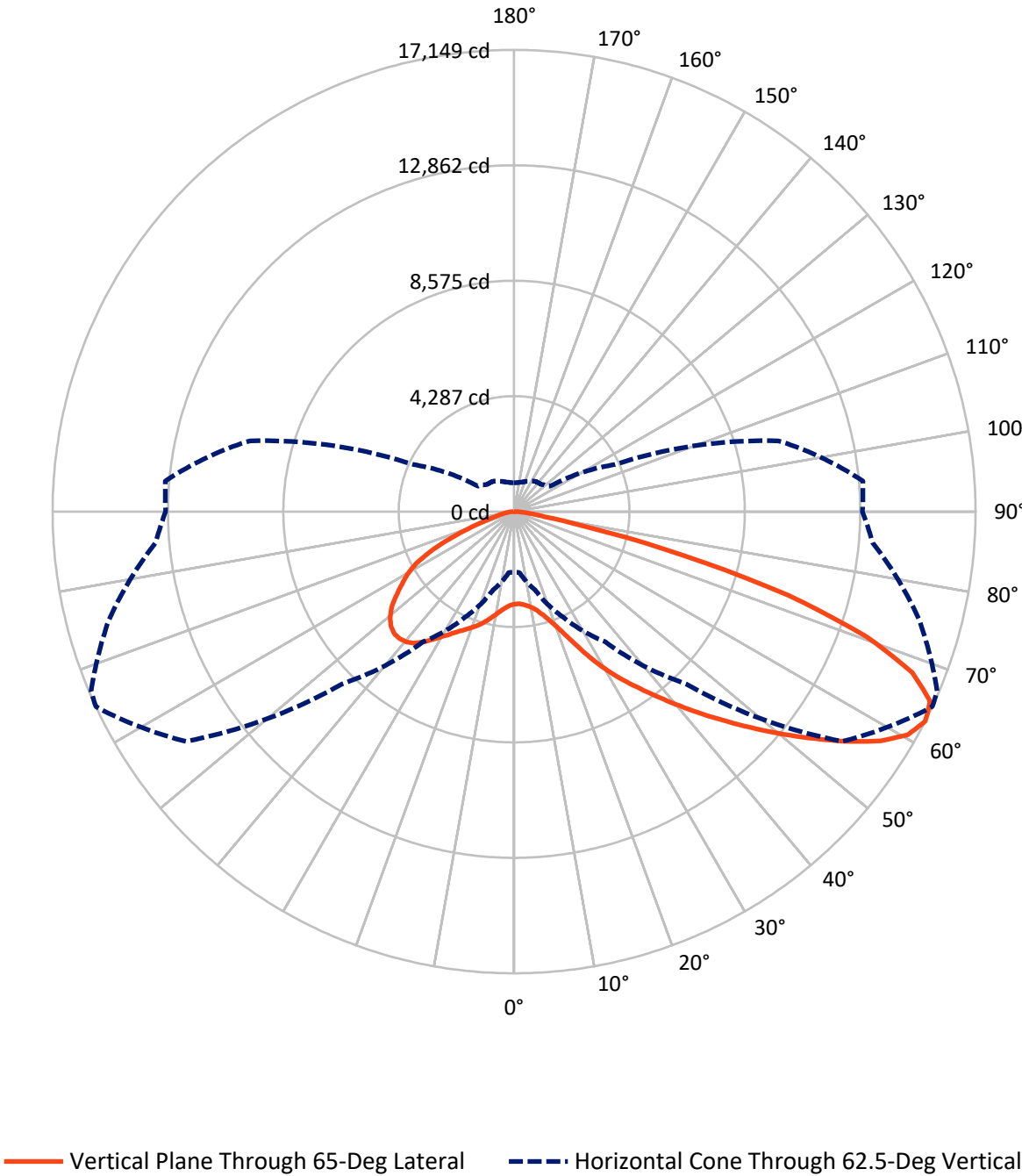


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.2	0.0	9838.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21339.2	0.0	21339.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	31177.4	0.0	31177.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	1.1
10°-20°	1161.5	3.7
20°-30°	2355.1	7.6
30°-40°	4075.5	13.1
40°-50°	6167.6	19.8
50°-60°	7231.1	23.2
60°-70°	6062.4	19.4
70°-80°	3346.9	10.7
80°-90°	434.7	1.4
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°	31177.4	100.0
0°-180°	31177.4	100.0

Coefficient of Utilization



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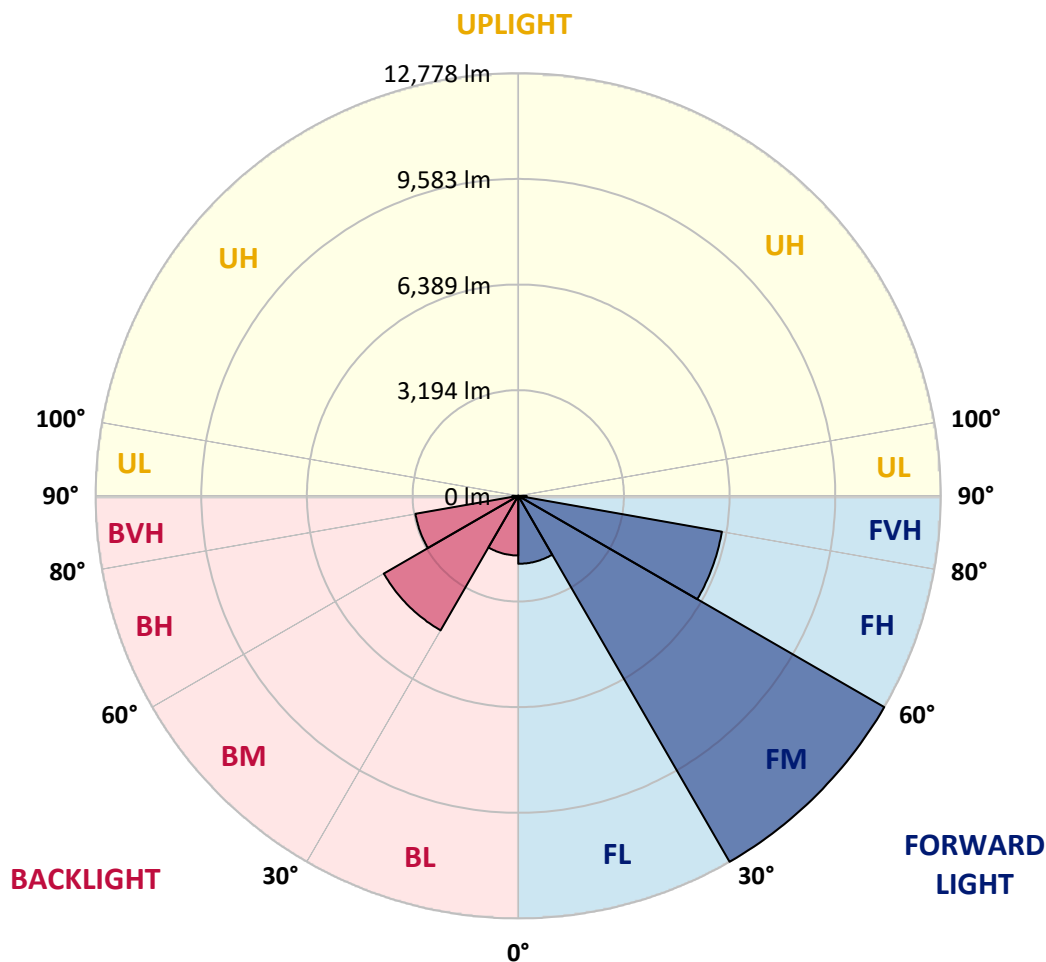
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2055.0	6.6			
FM	(30°-60°)	12777.5	41.0			
FH	(60°-80°)	6253.3	20.1			G3/7500
FVH	(80°-90°)	253.4	0.8			G3/500
BL	(0°-30°)	1804.2	5.8	B3/2500		
BM	(30°-60°)	4696.6	15.1	B3/5000		
BH	(60°-80°)	3156.0	10.1	B4/5000		G4/5000
BVH	(80°-90°)	181.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6
2.5°	3412.9	3403.3	3411.4	3411.4	3414.6	3412.9	3424.3	3427.5	3432.4	3442.1	3442.1
5°	3379.0	3377.4	3391.9	3404.8	3417.9	3429.1	3443.7	3464.7	3468.0	3479.3	3493.8
7.5°	3367.6	3358.0	3380.7	3396.7	3427.5	3455.1	3493.8	3529.4	3544.0	3548.9	3576.3
10°	3455.1	3438.9	3459.9	3469.6	3495.5	3522.9	3568.2	3624.9	3641.0	3660.5	3691.2
12.5°	3603.8	3586.1	3616.8	3631.4	3655.6	3679.9	3710.6	3765.5	3773.6	3809.3	3838.4
15°	3807.7	3786.7	3806.0	3823.9	3864.2	3886.9	3917.7	3971.1	3971.1	3998.5	4019.5
17.5°	4084.2	4056.7	4071.3	4077.8	4103.7	4137.6	4189.4	4236.3	4260.5	4250.9	4221.8
20°	4496.7	4462.7	4462.7	4430.4	4420.7	4448.2	4516.2	4580.8	4606.7	4556.5	4485.4
22.5°	5116.2	5067.7	5040.2	4930.2	4886.6	4889.8	4957.7	5037.0	5058.0	4969.0	4808.9
25°	5904.0	5827.9	5790.7	5629.0	5530.3	5444.6	5498.0	5599.9	5629.0	5519.0	5260.2
27.5°	6691.7	6696.5	6661.0	6466.8	6303.4	6146.6	6119.0	6225.8	6256.6	6132.1	5811.7
30°	7796.5	7681.7	7613.7	7380.7	7147.8	6927.9	6814.6	6858.3	6866.4	6717.5	6345.6
32.5°	8749.2	8720.1	8574.5	8370.7	8071.5	7726.9	7537.6	7468.2	7455.1	7243.3	6801.7
35°	9834.6	9818.4	9664.7	9422.1	9098.5	8619.7	8278.5	8079.6	8063.4	7765.7	7253.0
37.5°	10937.7	10937.7	10787.3	10521.9	10187.2	9588.7	9069.4	8754.0	8702.2	8314.1	7712.3
40°	11817.6	11764.2	11791.7	11680.1	11296.7	10661.1	9947.7	9490.0	9420.5	8954.6	8200.8
42.5°	12317.4	12299.6	12464.6	12589.2	12432.2	11924.3	10915.0	10287.4	10190.3	9659.8	8763.8
45°	12429.0	12409.7	12704.1	13160.2	13380.1	13171.5	11966.5	11126.9	11008.8	10397.4	9367.1
47.5°	12171.9	12133.0	12565.0	13284.7	13989.9	14357.2	13105.1	12037.6	11866.1	11115.6	9986.6
50°	11398.7	11361.5	12014.9	12970.9	14195.3	15162.6	14341.0	13003.3	12741.3	11885.6	10612.5
52.5°	9718.0	9735.9	10759.7	12073.2	13925.2	15664.0	15405.2	14020.7	13705.3	12673.3	11199.8
55°	7570.0	7608.8	8867.3	10313.3	12844.8	15588.1	16131.6	15068.8	14755.1	13414.1	11806.3
57.5°	5420.3	5591.8	6770.9	8202.5	10769.5	14383.0	16290.0	16065.2	15761.1	14222.9	12399.9
60°	3513.3	3544.0	4757.1	6199.9	8200.8	12241.4	15968.2	16820.7	16582.9	15047.8	12896.6
62.5°	2251.6	2272.6	3011.9	4336.6	5902.4	9056.5	14884.4	17149.0	17076.2	15592.9	13373.7
65°	1654.8	1638.6	2023.6	2866.2	3975.9	5585.3	12780.0	16990.5	17134.4	15934.2	13768.3
67.5°	1381.4	1358.7	1548.0	1984.7	2929.3	3172.0	9456.0	15960.1	16487.4	15895.4	14057.9
70°	1258.4	1239.0	1353.8	1473.5	2285.5	2123.8	4766.9	13875.1	14687.1	15453.8	14010.9
72.5°	1065.9	1032.0	1188.9	1308.6	1777.7	1628.8	1970.2	10657.8	11647.8	14038.5	13351.0
75°	826.6	803.9	938.2	1151.7	1336.1	1271.4	1245.5	6471.7	7552.2	10856.8	11680.1
77.5°	655.1	624.3	747.3	897.7	1201.8	959.2	907.4	2787.0	3857.8	6931.0	8739.5
80°	493.3	465.9	567.7	710.1	923.6	723.0	587.1	1137.1	1454.2	3511.6	4394.8
82.5°	351.0	326.8	396.3	520.8	621.2	648.6	360.7	637.3	716.6	1353.8	981.8
85°	224.9	210.2	265.3	326.8	394.6	417.3	220.0	333.2	365.5	558.0	409.3
87.5°	122.9	100.2	142.4	152.0	182.8	166.6	105.2	121.4	131.0	202.2	173.1
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°	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6	3435.6
2.5°	3448.5	3453.4	3469.6	3474.4	3485.7	3500.3	3510.0	3519.7	3519.7	3529.4	3529.4
5°	3495.5	3506.8	3540.8	3558.6	3587.7	3616.8	3634.5	3655.6	3668.6	3675.0	3678.2
7.5°	3586.1	3603.8	3652.4	3683.1	3733.3	3773.6	3801.2	3830.3	3836.8	3854.5	3848.1
10°	3709.0	3730.0	3785.0	3843.2	3903.1	3953.2	3979.2	4000.2	4008.3	4011.4	4003.3
12.5°	3849.7	3880.4	3951.6	4022.8	4085.9	4129.5	4136.0	4131.2	4108.5	4089.1	4089.1
15°	4022.8	4050.3	4129.5	4207.2	4268.6	4276.7	4236.3	4210.4	4182.9	4178.1	4178.1
17.5°	4229.9	4244.4	4317.2	4393.2	4398.1	4370.5	4310.7	4286.4	4260.5	4242.8	4244.4
20°	4470.8	4466.0	4517.8	4550.1	4516.2	4432.0	4341.4	4301.0	4275.1	4254.1	4255.7
22.5°	4758.8	4721.6	4715.1	4707.0	4616.4	4440.1	4317.2	4265.4	4224.9	4195.8	4205.6
25°	5177.7	5035.3	4936.7	4881.7	4677.9	4396.4	4239.5	4124.7	4048.6	3998.5	4017.9
27.5°	5701.8	5462.3	5213.3	5079.0	4677.9	4307.5	4051.9	3865.9	3741.4	3689.6	3715.4
30°	6201.6	5950.8	5583.7	5316.8	4666.5	4161.9	3749.4	3490.6	3345.0	3293.3	3324.0
32.5°	6628.6	6355.2	5976.8	5577.2	4639.0	3925.7	3374.2	3087.8	2947.1	2885.7	2916.4
35°	7024.9	6733.7	6371.4	5863.5	4566.3	3579.6	2961.6	2743.3	2586.4	2487.8	2520.1
37.5°	7430.9	7084.7	6745.1	6122.3	4435.3	3175.2	2644.6	2458.7	2274.3	2141.6	2177.2
40°	7872.5	7458.4	7144.6	6276.0	4220.1	2790.3	2398.8	2229.0	2033.2	1892.5	1920.0
42.5°	8388.5	7906.4	7589.4	6355.2	3925.7	2516.9	2238.6	2072.0	1887.6	1772.8	1795.5
45°	8927.1	8399.8	7995.4	6353.7	3597.3	2389.1	2186.9	2021.9	1818.1	1698.4	1717.8
47.5°	9491.6	8915.8	8346.4	6250.1	3312.7	2406.9	2157.7	1913.6	1688.7	1572.2	1588.4
50°	10057.7	9480.3	8686.1	6056.0	3191.3	2368.1	2049.4	1761.5	1496.2	1391.0	1397.6
52.5°	10619.0	10080.4	8978.9	5779.4	3068.4	2224.0	1910.3	1564.1	1417.0	1344.2	1344.2
55°	11183.6	10674.0	9297.5	5376.6	2761.1	2055.8	1677.4	1489.7	1353.8	1287.5	1281.0
57.5°	11749.7	11359.9	9599.9	4973.9	2374.5	1848.8	1549.6	1399.1	1290.8	1234.2	1224.5
60°	12338.4	12144.4	9912.2	4603.5	1992.8	1583.5	1455.8	1326.4	1216.4	1153.3	1148.4
62.5°	12945.0	13008.1	10156.4	4126.3	1641.7	1421.8	1371.7	1239.0	1132.2	1072.5	1070.8
65°	13556.4	13841.1	10316.5	3464.7	1331.3	1268.1	1281.0	1143.6	1035.2	983.5	981.8
67.5°	14017.5	14441.2	10271.2	2622.1	1091.8	1122.6	1167.9	1043.3	941.4	901.0	902.6
70°	14069.3	14370.1	9824.8	1795.5	913.9	980.2	1041.7	944.6	839.5	810.4	812.0
72.5°	13380.1	13399.5	8581.0	1172.7	773.2	860.5	909.1	844.4	742.4	713.3	711.8
75°	11573.4	11081.7	6300.3	773.2	647.0	739.2	784.5	739.2	640.5	647.0	624.3
77.5°	8768.6	7848.2	3825.4	549.9	540.3	621.2	682.5	650.3	566.1	635.7	559.6
80°	4517.8	4246.0	1706.5	410.8	427.0	496.6	561.3	519.3	448.0	427.0	389.8
82.5°	1035.2	1203.5	672.9	294.4	308.9	357.5	428.7	389.8	321.8	271.7	268.5
85°	362.3	396.3	297.7	184.4	181.1	223.2	291.2	260.5	218.3	174.7	184.4
87.5°	114.8	150.5	111.6	74.4	77.6	100.2	134.3	122.9	101.9	66.3	69.6
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)