

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: P970530

Luminaire Tested: **NAV-SB6B-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31084.1 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

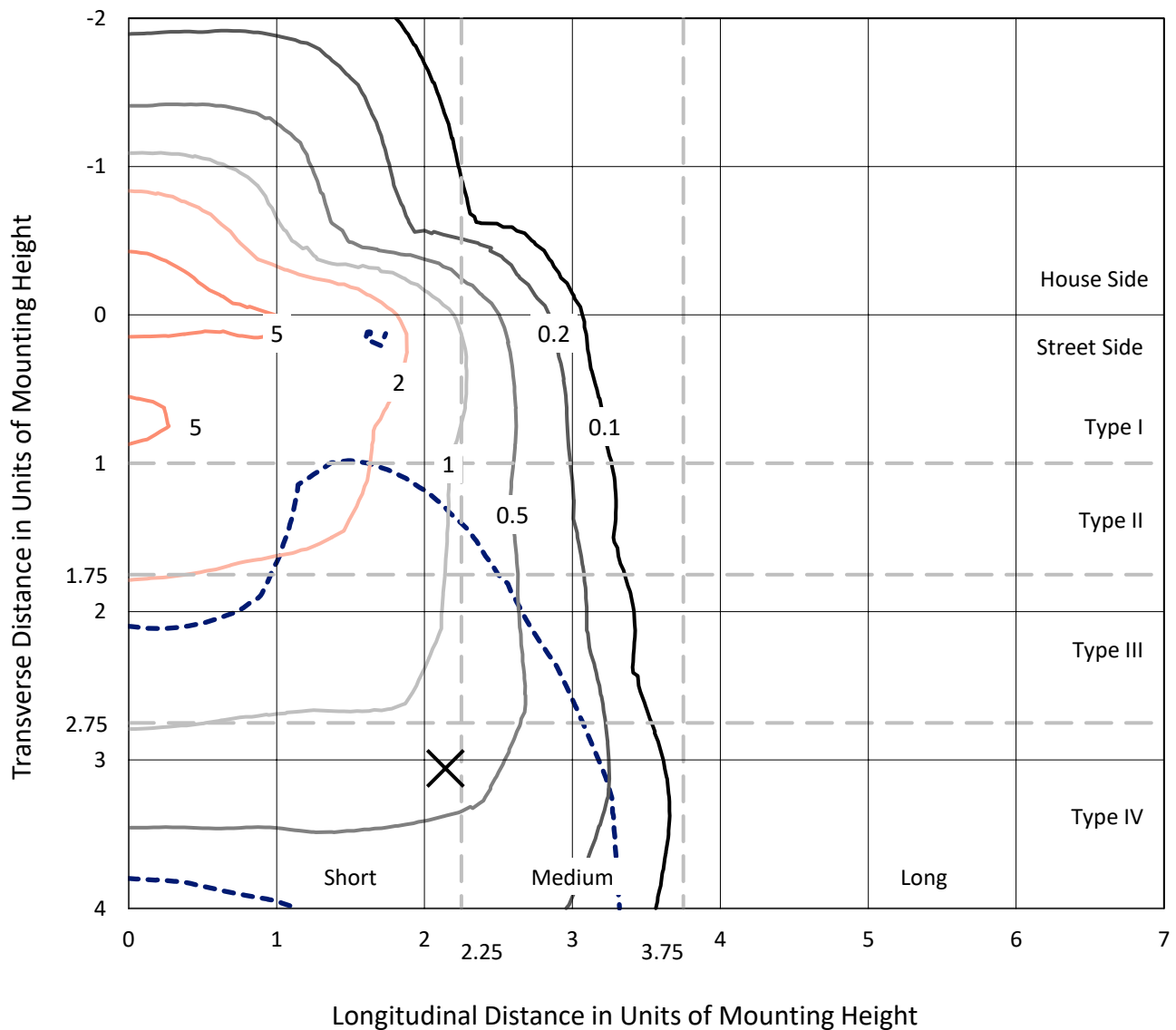


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Iso-Footcandle Lines of Horizontal Illumination

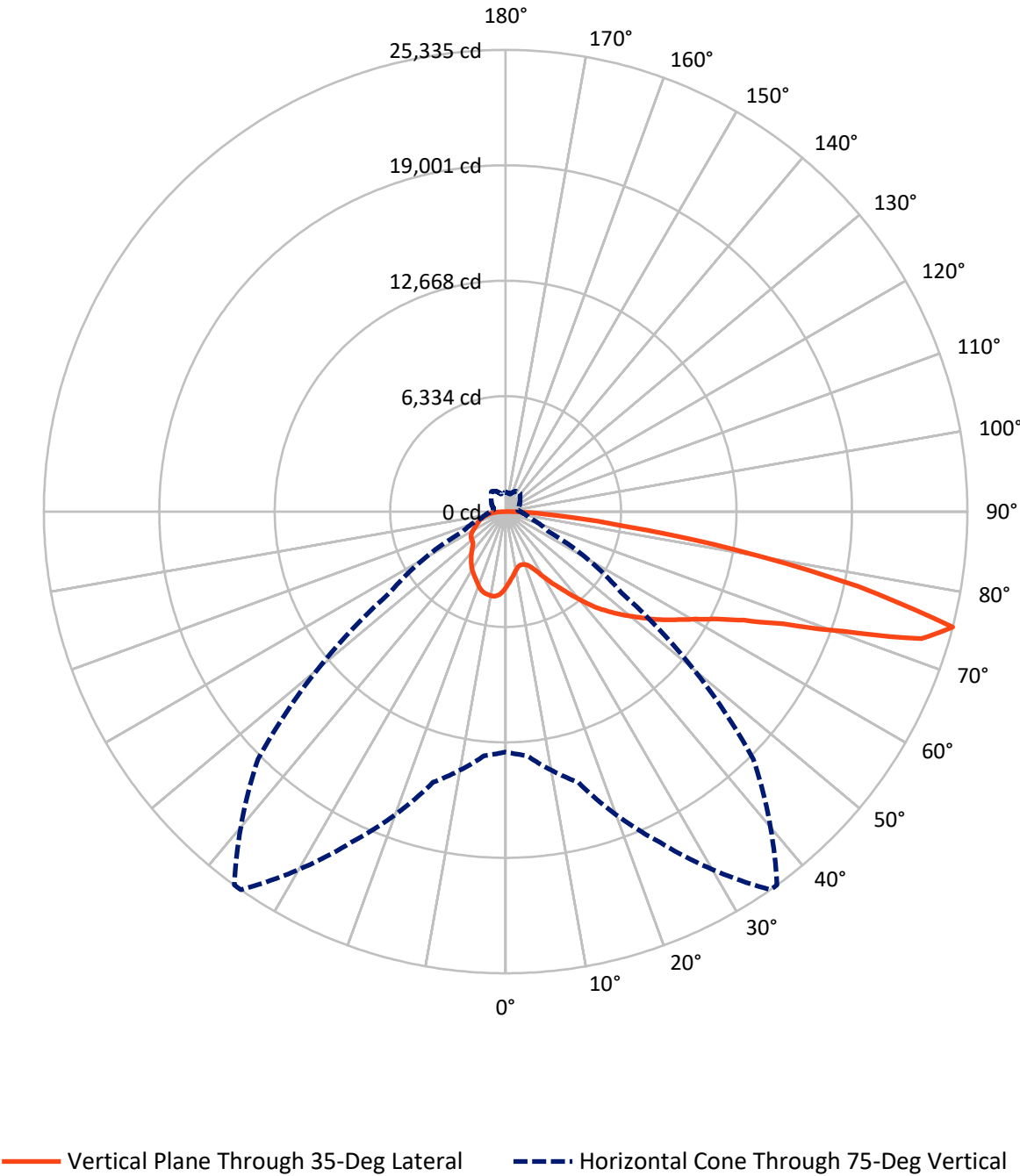
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7397.2	0.0	7397.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23686.9	0.0	23686.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	31084.1	0.0	31084.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.2	1.3
10°-20°	1131.2	3.6
20°-30°	1899.6	6.1
30°-40°	2952.3	9.5
40°-50°	4381.9	14.1
50°-60°	6049.5	19.5
60°-70°	7339.5	23.6
70°-80°	6065.5	19.5
80°-90°	872.4	2.8
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°	31084.1	100.0
0°-180°	31084.1	100.0

Coefficient of Utilization



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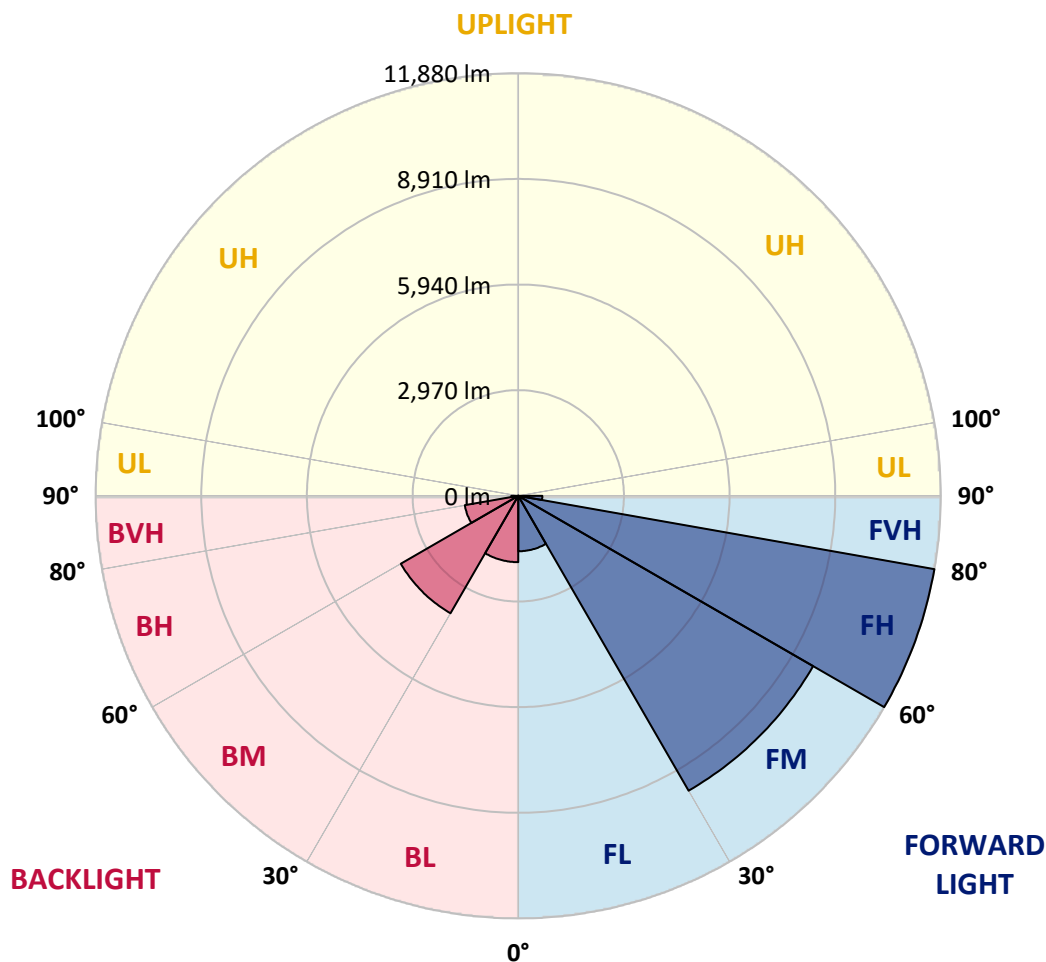
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.8	5.0			
FM	(30°-60°)	9572.2	30.8			
FH	(60°-80°)	11879.9	38.2			G4/12000
FVH	(80°-90°)	676.0	2.2			G4/750
BL	(0°-30°)	1864.2	6.0	B3/2500		
BM	(30°-60°)	3811.5	12.3	B3/5000		
BH	(60°-80°)	1525.1	4.9	B3/2500		G3/2500
BVH	(80°-90°)	196.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1
2.5°	3819.6	3843.0	3853.2	3848.1	3873.3	3870.0	3905.2	3948.9	4009.4	4068.2	4153.9
5°	3525.5	3550.7	3572.5	3592.7	3641.4	3656.6	3712.0	3796.0	3906.9	4019.5	4160.7
7.5°	3251.6	3273.4	3307.1	3344.0	3426.4	3441.4	3533.9	3665.0	3819.6	3984.2	4179.1
10°	3028.1	3049.9	3085.2	3127.2	3229.7	3248.2	3365.8	3540.6	3742.3	3950.7	4199.3
12.5°	2932.3	2939.0	2959.2	3001.2	3090.3	3102.1	3231.4	3431.4	3666.6	3925.4	4229.6
15°	2927.3	2940.7	2942.4	2964.2	3038.2	3043.2	3162.5	3360.8	3619.6	3920.3	4275.0
17.5°	2977.6	2987.8	2972.6	2986.0	3048.2	3056.7	3150.7	3327.2	3604.4	3942.3	4352.3
20°	3112.1	3120.5	3075.1	3056.7	3102.1	3108.7	3201.2	3349.0	3619.6	3987.6	4458.1
22.5°	3397.8	3402.8	3291.9	3216.2	3219.6	3223.0	3303.7	3438.1	3678.4	4070.0	4592.5
25°	3843.0	3839.8	3663.2	3517.1	3433.0	3414.6	3468.3	3582.6	3777.5	4179.1	4765.6
27.5°	4363.9	4338.8	4162.3	3943.9	3760.7	3733.9	3722.1	3770.8	3918.7	4323.7	4977.3
30°	4952.1	4928.6	4738.7	4453.0	4199.3	4155.7	4044.8	4019.5	4128.7	4520.2	5271.4
32.5°	5597.4	5582.3	5355.4	5009.3	4669.8	4619.4	4432.9	4365.7	4451.4	4817.7	5681.4
35°	6138.5	6125.0	5936.8	5580.6	5165.5	5103.4	4913.4	4837.9	4881.6	5199.1	6217.4
37.5°	6627.4	6620.8	6459.4	6178.8	5750.4	5674.7	5461.3	5436.1	5427.7	5701.6	6867.8
40°	7081.2	7064.4	6896.3	6748.5	6430.8	6362.0	6173.8	6151.9	6088.1	6319.9	7603.8
42.5°	7583.7	7539.9	7296.3	7227.4	7141.7	7084.6	6971.9	6975.3	6834.2	7017.4	8383.5
45°	7993.7	7968.5	7718.0	7677.8	7770.1	7746.6	7844.1	7869.3	7595.4	7748.3	9193.4
47.5°	8433.9	8410.3	8198.7	8170.1	8420.5	8427.1	8771.6	8780.0	8338.2	8507.8	10005.0
50°	8976.6	8943.0	8733.0	8768.3	9048.9	9074.1	9704.3	9647.2	9022.0	9279.1	10810.0
52.5°	9334.6	9354.8	9309.4	9366.6	9749.7	9773.2	10621.8	10475.6	9699.3	10040.4	11599.7
55°	9598.4	9638.8	9779.9	9910.9	10489.0	10512.5	11487.2	11263.7	10260.5	10746.1	12342.5
57.5°	9937.9	9880.7	10144.5	10400.0	11191.5	11253.6	12329.0	12023.2	10757.9	11354.4	12851.7
60°	10425.2	10384.9	10589.9	10967.9	11977.8	12077.0	13219.6	12707.1	11122.6	11836.7	12950.8
62.5°	11413.3	11312.4	11344.4	11678.7	12969.3	13100.3	14224.5	13303.7	11304.0	12024.9	12419.8
65°	12890.3	12717.3	12555.9	12787.8	14365.7	14495.0	15358.8	13772.5	11236.8	11660.3	11009.9
67.5°	14750.5	14579.1	14380.9	14599.3	16422.4	16525.0	16758.5	14036.4	10707.5	10255.4	8518.0
70°	16284.7	16220.8	16457.8	17356.8	19707.7	19711.1	18553.2	13817.9	9257.3	7271.0	4928.6
72.5°	16081.3	16042.7	17291.2	20070.6	23848.2	23759.1	20252.2	12164.4	6235.9	3280.1	1846.7
75°	13192.8	13443.2	15377.3	20021.9	25335.3	25323.5	19212.0	7733.2	2579.4	1359.5	954.5
77.5°	7074.4	7471.0	9983.2	14782.4	19778.3	20075.6	13507.0	2705.4	1107.4	870.4	660.4
80°	2307.2	2653.3	3979.2	7526.5	12851.7	12796.2	5789.0	1062.0	757.9	616.7	457.0
82.5°	979.7	1020.0	1777.9	3554.1	6595.6	6493.1	1843.4	610.0	532.7	421.8	282.3
85°	383.1	428.4	784.7	1643.4	2856.7	2794.5	665.4	302.5	341.1	275.6	168.0
87.5°	126.1	152.9	280.6	562.9	888.9	857.0	163.0	104.1	147.9	126.1	60.5
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°	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1	4142.1
2.5°	4177.5	4204.3	4236.3	4283.4	4323.7	4357.3	4392.5	4414.4	4422.8	4448.0	4446.3
5°	4207.7	4266.6	4345.5	4422.8	4498.4	4543.8	4584.1	4604.3	4622.8	4636.2	4639.6
7.5°	4258.2	4333.7	4458.1	4558.9	4622.8	4659.8	4686.6	4679.9	4686.6	4690.0	4695.0
10°	4301.8	4407.7	4555.5	4651.3	4700.0	4701.8	4695.0	4671.5	4659.8	4661.4	4664.8
12.5°	4353.9	4471.6	4631.2	4711.8	4725.2	4688.3	4659.8	4619.4	4604.3	4597.5	4594.2
15°	4424.5	4558.9	4713.5	4743.8	4710.2	4663.1	4614.3	4548.8	4515.2	4488.4	4496.8
17.5°	4510.2	4658.0	4777.3	4755.5	4683.2	4605.9	4527.0	4427.8	4358.9	4330.4	4332.1
20°	4629.5	4762.3	4826.1	4730.3	4621.1	4503.4	4369.1	4248.0	4184.2	4155.7	4152.3
22.5°	4774.0	4901.8	4873.2	4686.6	4532.0	4343.8	4175.7	4086.7	4054.8	4034.6	4038.0
25°	4947.1	5056.3	4906.8	4622.8	4385.9	4132.1	4002.7	3974.1	3959.0	3943.9	3943.9
27.5°	5172.3	5231.1	4932.0	4528.7	4157.3	3906.9	3859.8	3864.9	3859.8	3834.6	3839.8
30°	5469.7	5457.9	4955.5	4375.7	3895.2	3703.6	3706.9	3728.7	3732.1	3715.3	3723.7
32.5°	5861.3	5741.9	4967.3	4177.5	3644.8	3525.5	3528.9	3552.3	3569.2	3540.6	3554.1
35°	6335.1	6072.9	4948.8	3928.7	3451.5	3355.7	3330.5	3337.3	3342.3	3315.5	3333.9
37.5°	6887.9	6444.3	4866.4	3653.2	3291.9	3189.4	3135.6	3090.3	3063.3	3038.2	3054.9
40°	7494.6	6849.3	4715.2	3384.3	3113.7	3013.0	2932.3	2846.6	2755.8	2722.2	2737.4
42.5°	8129.8	7266.0	4532.0	3127.2	2908.7	2826.4	2740.7	2616.4	2480.3	2411.4	2419.7
45°	8788.5	7692.8	4352.3	2873.5	2698.7	2663.5	2564.2	2414.7	2266.9	2179.5	2172.8
47.5°	9433.7	8096.2	4088.4	2618.1	2502.1	2540.8	2463.5	2325.6	2161.0	2023.1	2008.1
50°	10050.4	8474.2	3656.6	2359.2	2342.4	2503.8	2429.9	2231.5	2043.3	1866.9	1851.8
52.5°	10662.2	8780.0	3103.7	2124.0	2256.7	2493.7	2386.2	2167.7	1937.5	1752.6	1732.5
55°	11181.3	8938.0	2571.0	1922.4	2132.4	2408.0	2334.0	2092.1	1787.9	1591.3	1574.5
57.5°	11477.1	8810.3	2127.4	1724.0	1961.0	2266.9	2245.1	1930.8	1609.9	1458.6	1438.4
60°	11349.4	8292.8	1764.4	1551.0	1798.1	2114.0	2090.4	1771.1	1473.7	1330.9	1310.7
62.5°	10645.3	7306.4	1477.0	1399.7	1650.1	1957.6	1935.8	1648.5	1369.5	1231.7	1209.9
65°	9227.0	5943.6	1253.6	1273.8	1500.6	1769.5	1801.3	1546.0	1287.2	1152.7	1130.9
67.5°	7037.4	4305.2	1078.8	1164.5	1354.4	1584.6	1677.0	1472.0	1218.3	1090.6	1070.4
70°	4011.1	2444.9	930.9	1058.6	1225.0	1413.2	1581.3	1413.2	1144.3	1038.5	1025.0
72.5°	1520.8	1122.5	804.9	952.7	1100.6	1268.7	1475.4	1320.8	1058.6	979.7	966.3
75°	811.6	683.9	677.2	828.4	957.9	1127.5	1342.6	1230.0	994.8	1035.1	1068.8
77.5°	552.9	483.9	566.3	709.1	801.6	971.3	1201.5	1092.2	862.0	858.6	791.5
80°	383.1	342.8	460.4	571.3	620.0	816.7	1048.6	937.7	702.4	655.4	626.8
82.5°	230.2	223.4	344.5	426.8	438.6	630.2	868.8	786.4	574.7	500.7	504.1
85°	126.1	132.7	220.2	250.4	255.4	440.2	680.6	608.3	442.0	371.4	374.7
87.5°	35.3	45.4	80.7	99.1	122.7	228.6	405.0	361.3	221.8	154.6	154.6
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)