

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: P970532

Luminaire Tested: **NAV-SB6B-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31388.6 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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



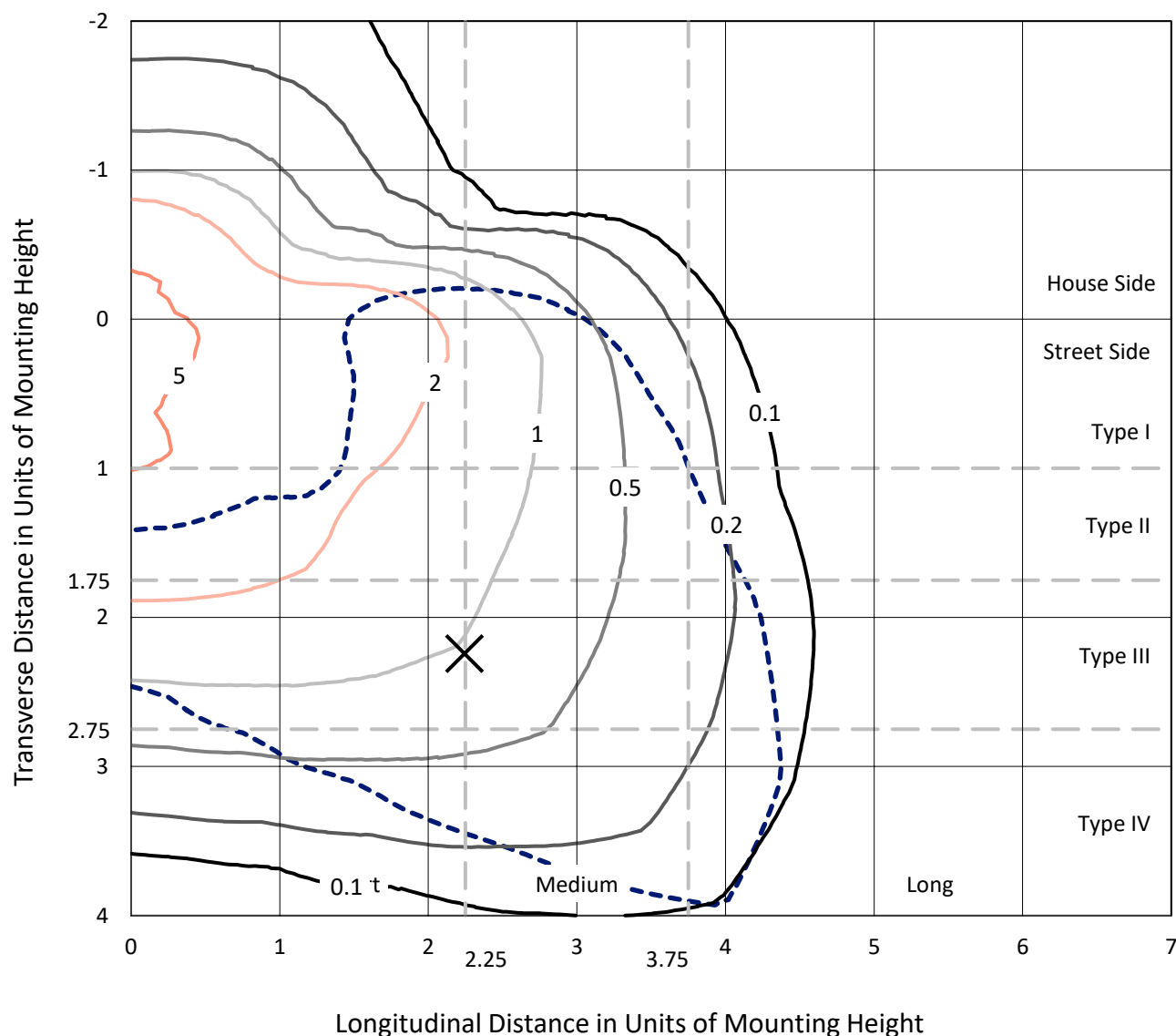
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

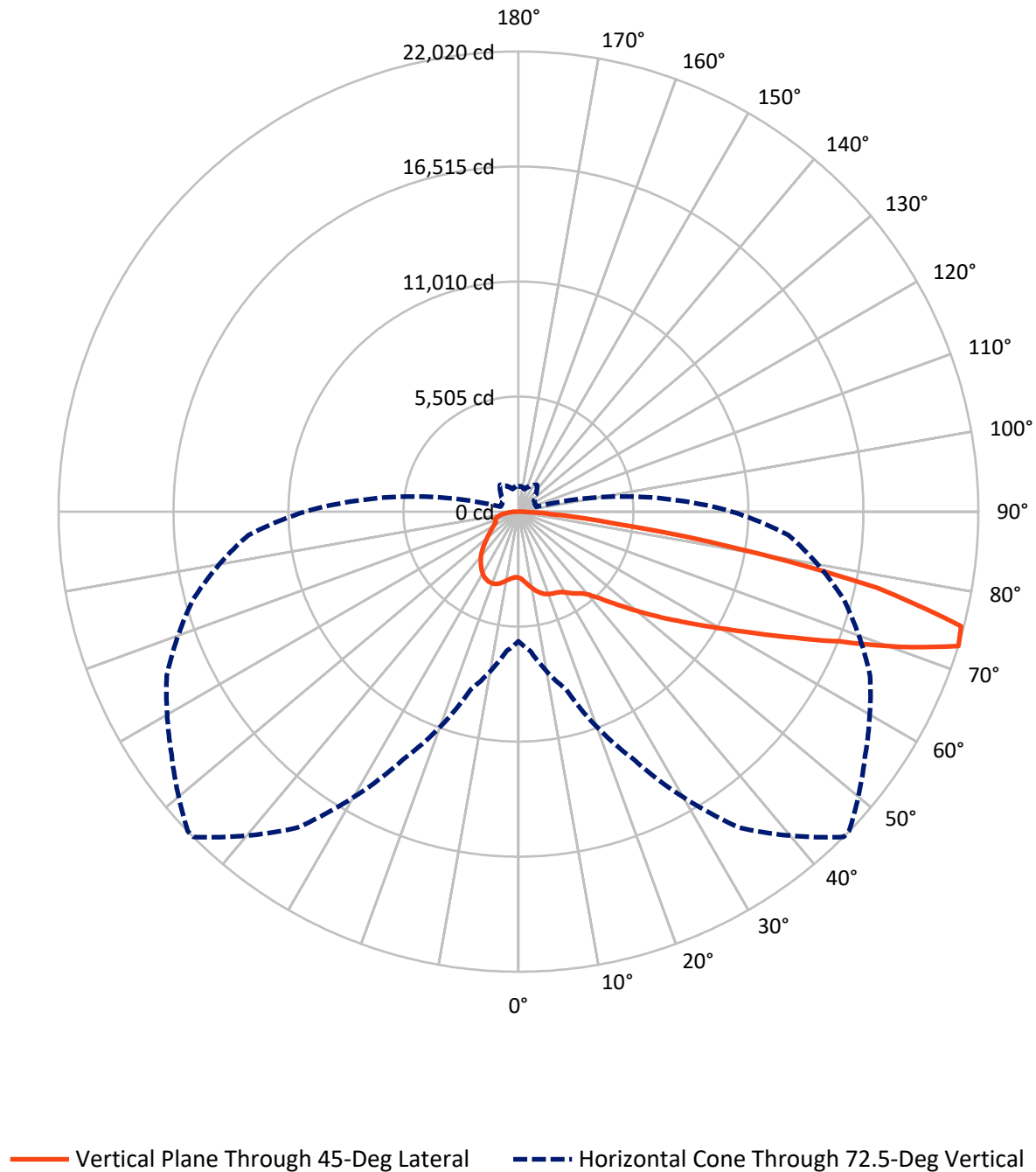


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

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	7095.9	0.0	7095.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24292.7	0.0	24292.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	31388.6	0.0	31388.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.3	1.0
10°-20°	1074.5	3.4
20°-30°	1869.2	6.0
30°-40°	2679.6	8.5
40°-50°	3773.1	12.0
50°-60°	5779.3	18.4
60°-70°	8372.1	26.7
70°-80°	6685.7	21.3
80°-90°	832.7	2.7
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°	31388.6	100.0
0°-180°	31388.6	100.0

Coefficient of Utilization



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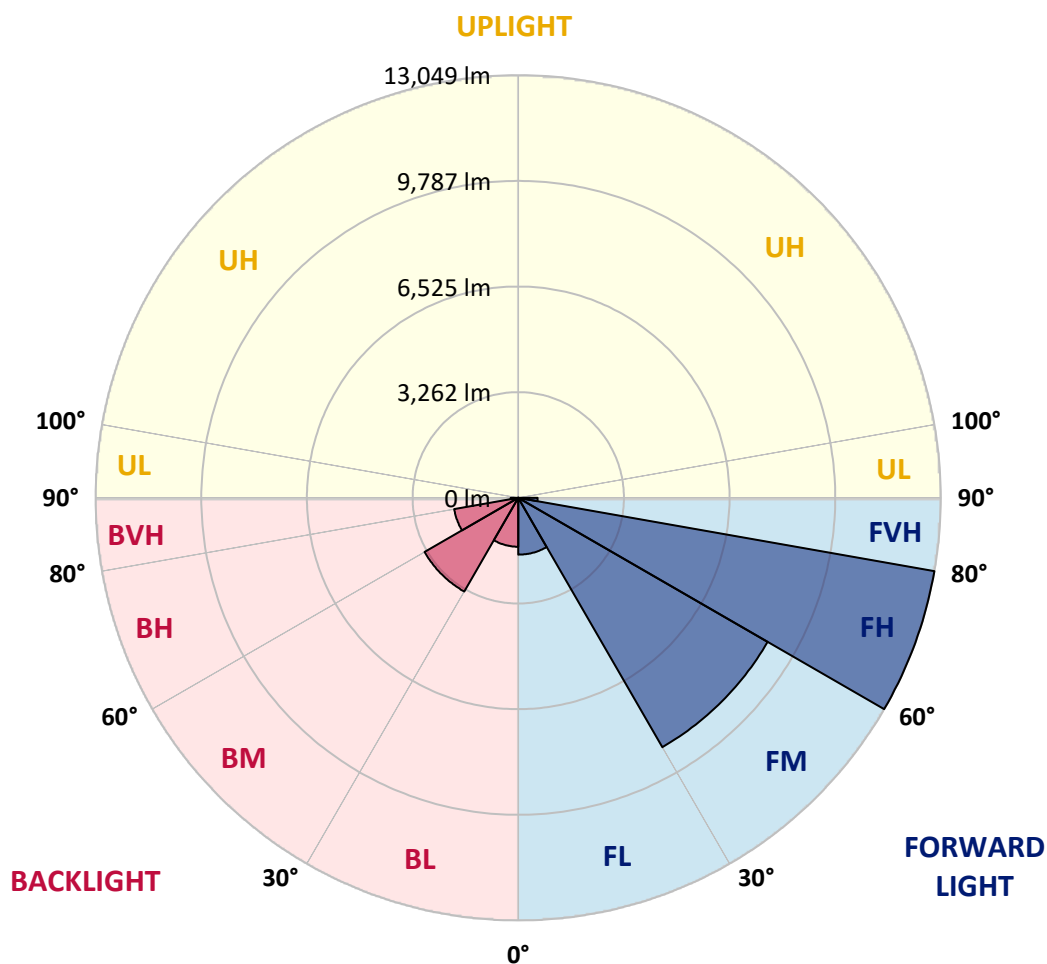
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1755.3	5.6			
FM	(30°-60°)	8890.9	28.3			
FH	(60°-80°)	13049.2	41.6			G5
FVH	(80°-90°)	597.4	1.9			G4/750
BL	(0°-30°)	1510.8	4.8	B3/2500		
BM	(30°-60°)	3341.2	10.6	B3/5000		
BH	(60°-80°)	2008.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	235.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5
2.5°	3290.6	3312.0	3292.2	3274.0	3265.8	3244.2	3242.6	3229.4	3221.1	3197.9	3191.3
5°	3520.4	3548.4	3515.3	3479.1	3445.9	3393.1	3386.4	3348.4	3305.4	3255.8	3227.7
7.5°	3780.0	3804.8	3766.8	3712.1	3654.3	3566.7	3565.0	3495.6	3427.7	3343.4	3295.5
10°	4006.5	4039.5	3988.3	3913.9	3841.1	3742.0	3730.4	3650.9	3565.0	3455.9	3383.1
12.5°	4206.6	4229.7	4180.2	4089.1	4004.9	3905.7	3890.7	3803.1	3707.2	3583.2	3490.6
15°	4365.3	4395.1	4328.9	4231.4	4142.0	4044.5	4031.3	3951.9	3856.0	3725.4	3606.4
17.5°	4469.5	4494.3	4426.5	4317.3	4231.4	4150.3	4140.4	4074.3	3989.9	3857.7	3730.4
20°	4509.2	4535.6	4464.5	4353.7	4274.4	4211.5	4206.6	4158.6	4100.7	3980.1	3851.0
22.5°	4548.8	4573.7	4481.1	4365.3	4295.9	4256.2	4254.5	4223.1	4199.9	4100.7	3975.1
25°	4709.3	4715.8	4591.8	4424.8	4325.6	4290.9	4289.2	4287.6	4297.5	4219.8	4109.0
27.5°	4848.1	4846.5	4740.6	4583.6	4429.7	4357.1	4355.4	4371.9	4403.3	4338.8	4247.9
30°	5051.5	5033.4	4907.7	4744.0	4603.4	4490.9	4481.1	4466.1	4490.9	4439.7	4386.8
32.5°	5483.0	5425.2	5221.9	4930.8	4747.3	4661.3	4648.1	4555.4	4565.3	4534.0	4507.5
35°	6101.5	6025.5	5754.2	5284.7	4925.8	4803.5	4796.9	4679.4	4659.6	4631.6	4641.4
37.5°	6837.4	6743.1	6427.3	5797.3	5233.4	4968.8	4959.0	4853.1	4772.1	4742.3	4798.5
40°	7576.5	7457.4	7196.1	6422.2	5686.5	5244.9	5213.6	5053.1	4960.6	4911.0	5030.0
42.5°	8294.1	8194.9	7971.6	7123.3	6245.3	5648.5	5579.0	5304.5	5235.1	5188.8	5403.7
45°	8929.0	8839.7	8676.0	7872.4	6900.2	6197.4	6129.6	5681.5	5660.0	5660.0	5970.8
47.5°	9445.0	9425.1	9251.4	8636.3	7672.3	6822.4	6705.0	6205.7	6263.6	6352.8	6776.2
50°	10017.0	9962.5	9777.3	9388.7	8580.2	7538.4	7442.5	6848.8	7065.5	7310.2	7940.3
52.5°	10542.8	10572.7	10365.9	10172.5	9605.3	8337.0	8168.4	7607.9	8075.8	8481.0	9304.3
55°	11083.5	11085.2	11027.4	11000.9	10680.1	9220.1	9034.9	8520.6	9264.7	9767.3	10895.0
57.5°	11591.2	11594.5	11680.5	11913.7	11926.9	10238.6	10028.6	9641.7	10585.9	11098.5	12535.3
60°	12044.3	12067.4	12302.3	12847.9	13023.1	11406.0	11207.6	10966.2	11951.7	12467.6	14260.0
62.5°	12196.4	12280.7	12803.3	13578.7	14106.2	12837.9	12642.9	12499.0	13386.9	13866.4	15701.9
65°	11938.5	12131.9	13142.2	14182.3	15220.6	14539.4	14346.0	14188.9	14878.4	15329.8	16885.7
67.5°	11305.1	11554.8	13122.4	14815.6	16573.2	16586.4	16406.3	16037.6	16477.4	16651.0	17271.0
70°	9636.7	10010.5	11966.6	15052.0	18125.9	19385.9	19212.3	18263.1	18073.0	17233.0	16186.3
72.5°	6208.9	6711.7	8811.6	13105.9	18471.5	22020.0	22010.0	20272.1	18577.3	16102.0	12981.8
75°	2265.4	2572.9	4094.2	8226.2	15505.1	21886.0	21950.5	19928.3	16958.5	12437.8	8087.4
77.5°	825.1	902.8	1336.1	3161.5	9535.9	17560.4	17694.4	15931.7	12070.7	6242.0	3204.6
80°	433.3	476.2	684.6	1226.9	4085.9	10428.8	10638.8	9468.0	5673.3	1880.1	960.7
82.5°	239.7	259.6	383.7	666.4	1840.4	4459.6	4585.2	3740.2	1995.8	797.0	396.9
85°	128.9	137.2	180.2	363.8	899.5	1546.0	1580.8	1117.8	795.3	467.9	191.8
87.5°	38.0	46.3	59.6	115.7	352.2	347.3	355.5	221.6	314.2	236.5	62.8
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°	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5	3166.5
2.5°	3181.4	3176.4	3158.2	3149.9	3140.1	3138.3	3146.6	3148.3	3149.9	3151.6	3158.2
5°	3211.1	3194.6	3178.1	3168.2	3171.5	3173.1	3189.6	3201.2	3209.5	3216.1	3219.4
7.5°	3269.0	3255.8	3227.7	3226.0	3231.0	3245.9	3267.4	3293.8	3308.7	3320.3	3323.6
10°	3355.0	3330.2	3297.1	3302.0	3312.0	3333.5	3378.2	3399.6	3424.4	3445.9	3441.0
12.5°	3442.7	3421.1	3383.1	3386.4	3403.0	3441.0	3484.0	3510.4	3526.9	3543.5	3550.1
15°	3556.7	3518.7	3477.3	3477.3	3507.1	3548.4	3568.3	3589.8	3599.7	3617.9	3624.5
17.5°	3674.1	3624.5	3570.0	3566.7	3603.0	3622.9	3634.4	3637.7	3641.1	3660.9	3667.6
20°	3791.6	3736.9	3659.2	3652.6	3660.9	3657.6	3656.0	3652.6	3657.6	3682.4	3692.4
22.5°	3907.3	3844.5	3736.9	3707.2	3684.1	3652.6	3650.9	3649.3	3652.6	3677.4	3694.0
25°	4042.9	3966.9	3822.9	3733.7	3656.0	3612.9	3617.9	3619.6	3622.9	3642.7	3669.2
27.5°	4190.0	4105.7	3902.3	3725.4	3584.8	3555.1	3546.8	3551.7	3563.3	3594.8	3626.1
30°	4337.2	4238.0	3975.1	3692.4	3495.6	3454.2	3427.7	3439.3	3475.7	3507.1	3541.9
32.5°	4471.2	4371.9	4033.0	3619.6	3381.5	3317.0	3282.3	3297.1	3333.5	3345.1	3386.4
35°	4628.2	4515.7	4057.8	3503.9	3257.4	3158.2	3111.9	3090.5	3108.6	3097.0	3133.4
37.5°	4803.5	4686.1	4054.4	3351.6	3111.9	2997.8	2933.3	2852.4	2814.3	2774.6	2799.4
40°	5063.1	4894.5	4014.7	3168.2	2931.7	2827.6	2711.7	2574.5	2488.6	2410.8	2415.8
42.5°	5416.9	5183.8	3942.0	2966.5	2728.3	2630.8	2473.6	2313.3	2177.7	2048.7	2037.2
45°	5944.4	5562.5	3851.0	2751.5	2508.4	2412.4	2242.2	2062.0	1908.1	1742.8	1722.9
47.5°	6705.0	6071.7	3765.0	2506.7	2276.9	2189.3	2035.4	1868.5	1686.6	1526.2	1508.0
50°	7750.0	6802.6	3685.7	2268.6	2048.7	1982.6	1860.2	1689.9	1506.3	1377.4	1369.1
52.5°	9079.4	7796.4	3652.6	2038.8	1835.4	1810.6	1713.1	1554.3	1380.7	1271.5	1263.3
55°	10605.7	8985.3	3652.6	1818.9	1648.6	1656.8	1589.1	1441.9	1291.4	1193.8	1183.9
57.5°	12163.3	10189.0	3586.5	1615.5	1489.8	1524.6	1481.5	1352.6	1217.0	1116.1	1099.6
60°	13598.6	11197.6	3318.6	1430.3	1349.3	1403.8	1375.8	1265.0	1099.6	1015.3	1002.0
62.5°	14701.5	11766.5	2802.8	1283.1	1233.5	1296.3	1281.5	1149.2	1078.1	1043.3	1031.8
65°	15253.7	11673.8	2143.0	1152.5	1136.0	1233.5	1202.1	1197.2	1140.9	1101.3	1088.0
67.5°	14914.8	10876.9	1554.3	1056.6	1079.7	1175.7	1296.3	1316.2	1212.1	1134.4	1121.0
70°	13428.2	9435.0	1157.4	965.7	1008.6	1177.3	1478.3	1377.4	1188.9	1098.0	1083.0
72.5°	10215.5	7035.7	897.9	869.7	916.0	1185.6	1559.2	1349.3	1122.8	1213.7	1203.8
75°	5841.9	3862.6	721.0	752.3	800.3	1107.8	1517.9	1276.5	1071.4	1114.5	1114.5
77.5°	2227.3	1484.8	595.2	636.6	643.2	967.3	1451.8	1271.5	1020.2	995.4	907.7
80°	772.2	580.4	492.7	505.9	497.7	859.9	1392.3	1106.2	835.1	747.4	722.6
82.5°	315.8	289.4	390.2	373.7	353.8	668.0	1124.4	904.5	682.9	603.5	597.0
85°	137.2	183.6	258.0	226.5	205.0	463.0	901.2	765.6	577.1	497.7	496.1
87.5°	28.1	69.5	109.2	102.5	105.8	309.2	639.9	544.0	408.5	305.9	239.7
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)