

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: P970523

Luminaire Tested: **NAV-SB6B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970523
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-SB6B-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31871.3 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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



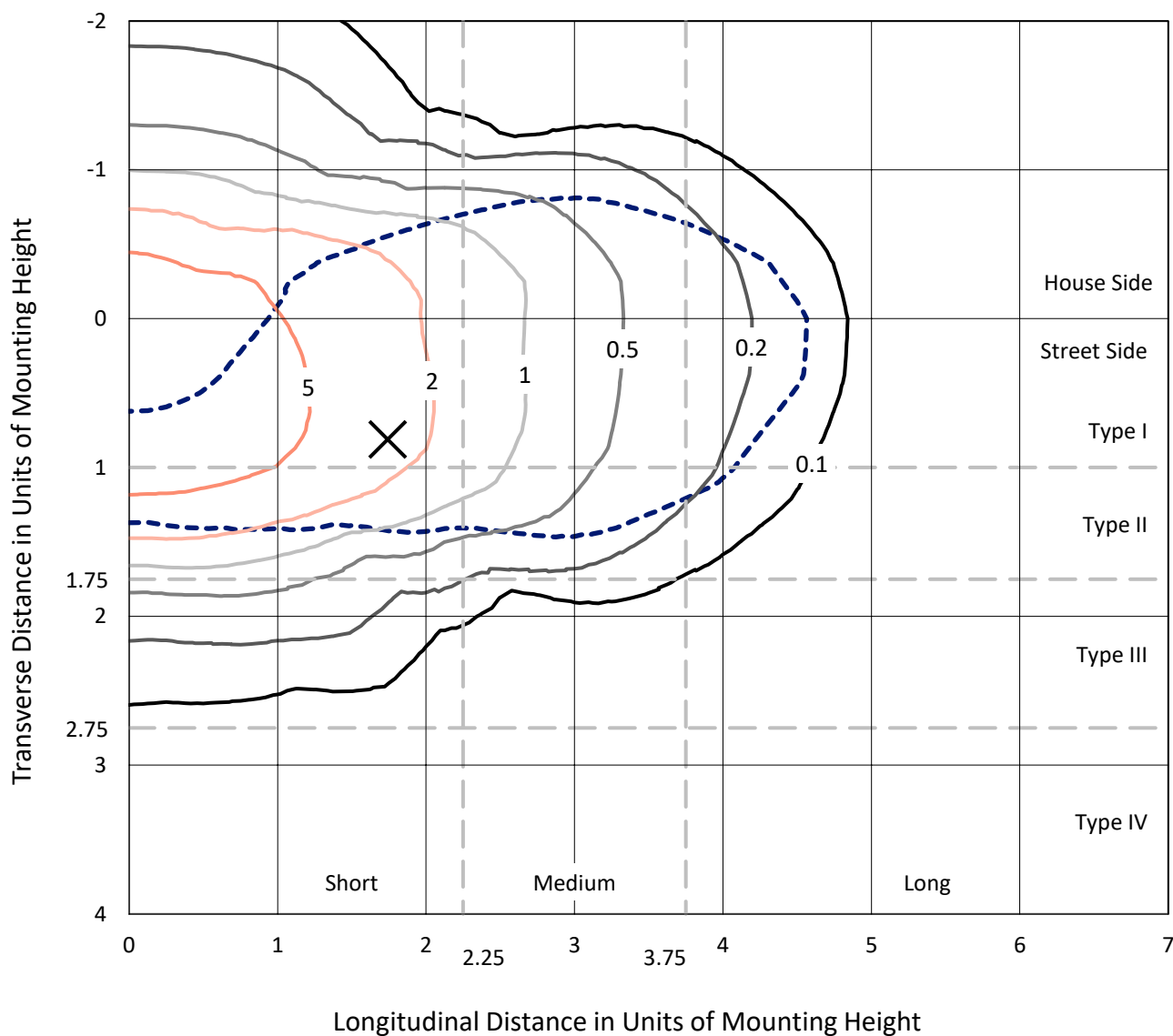
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

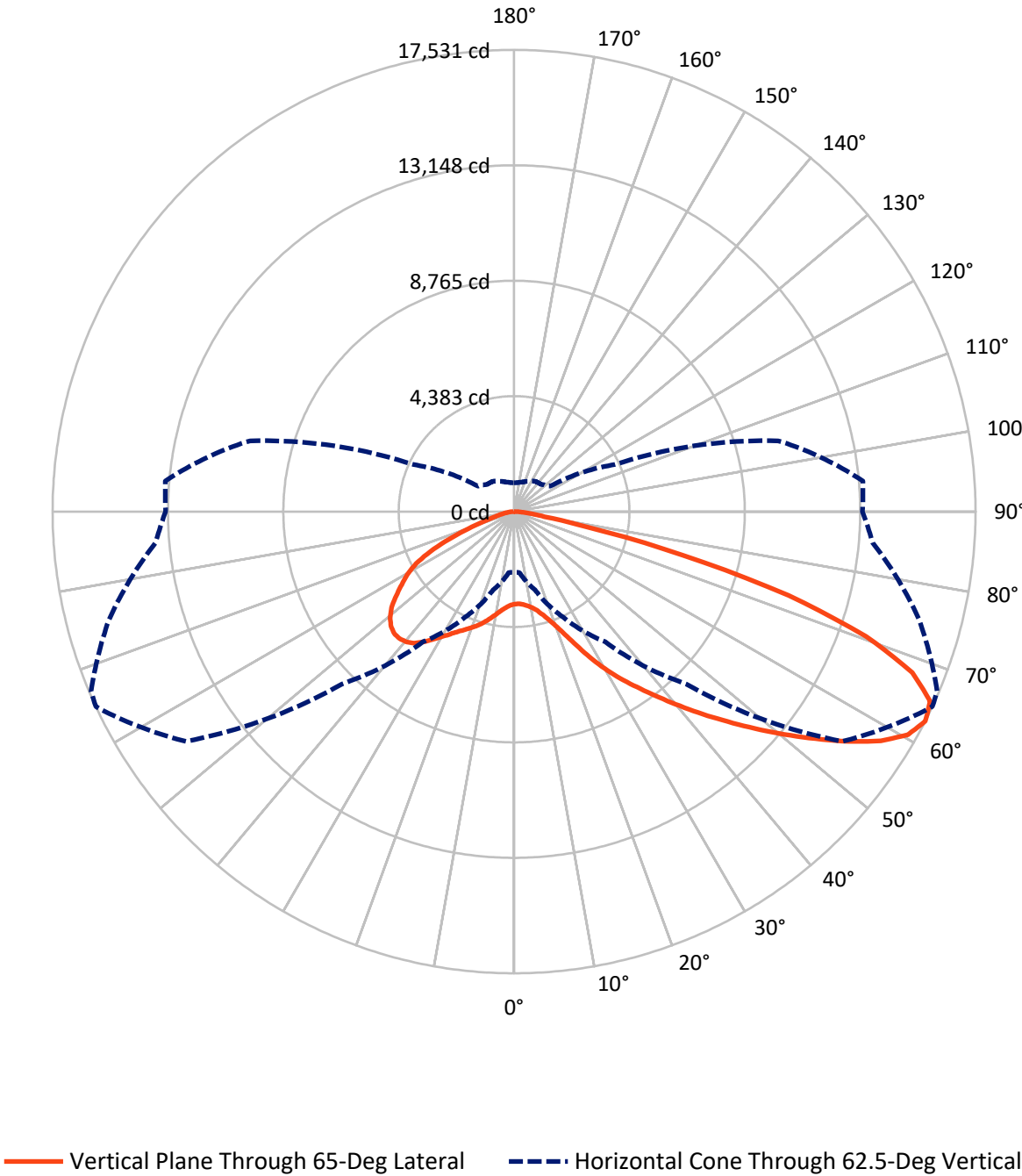


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc

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	10057.2	0.0	10057.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21814.1	0.0	21814.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	31871.3	0.0	31871.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	1.1
10°-20°	1187.4	3.7
20°-30°	2407.6	7.6
30°-40°	4166.2	13.1
40°-50°	6304.8	19.8
50°-60°	7392.0	23.2
60°-70°	6197.3	19.4
70°-80°	3421.4	10.7
80°-90°	444.4	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°	31871.3	100.0
0°-180°	31871.3	100.0

Coefficient of Utilization



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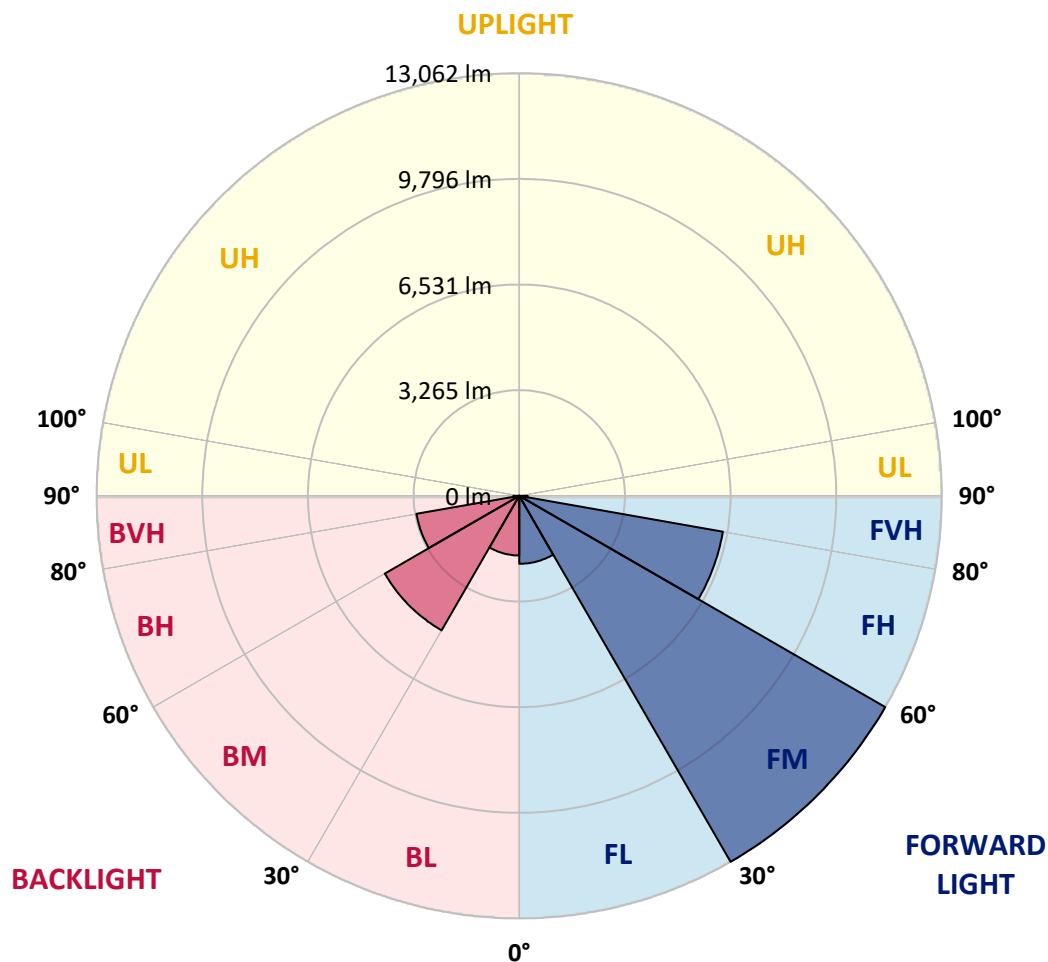
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2100.7	6.6			
FM	(30°-60°)	13061.9	41.0			
FH	(60°-80°)	6392.5	20.1			G3/7500
FVH	(80°-90°)	259.0	0.8			G3/500
BL	(0°-30°)	1844.4	5.8	B3/2500		
BM	(30°-60°)	4801.2	15.1	B3/5000		
BH	(60°-80°)	3226.3	10.1	B4/5000		G4/5000
BVH	(80°-90°)	185.4	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°	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1
2.5°	3488.9	3479.1	3487.3	3487.3	3490.6	3488.9	3500.5	3503.9	3508.8	3518.7	3518.7
5°	3454.2	3452.5	3467.5	3480.7	3493.9	3505.5	3520.4	3541.9	3545.2	3556.7	3571.6
7.5°	3442.7	3432.7	3455.9	3472.4	3503.9	3531.9	3571.6	3608.0	3622.9	3627.8	3656.0
10°	3531.9	3515.4	3536.9	3546.8	3573.3	3601.3	3647.7	3705.6	3722.1	3742.0	3773.3
12.5°	3684.1	3665.9	3697.3	3712.1	3736.9	3761.7	3793.2	3849.4	3857.7	3894.1	3923.8
15°	3892.4	3870.9	3890.7	3908.9	3950.2	3973.4	4004.9	4059.4	4059.4	4087.5	4109.0
17.5°	4175.1	4147.0	4161.9	4168.6	4195.0	4229.8	4282.7	4330.6	4355.4	4345.5	4315.7
20°	4596.8	4562.1	4562.1	4529.0	4519.1	4547.2	4616.6	4682.8	4709.3	4658.0	4585.2
22.5°	5230.1	5180.5	5152.4	5039.9	4995.3	4998.6	5068.0	5149.1	5170.6	5079.6	4915.9
25°	6035.4	5957.6	5919.6	5754.2	5653.4	5565.7	5620.3	5724.5	5754.2	5641.8	5377.3
27.5°	6840.6	6845.6	6809.2	6610.7	6443.8	6283.4	6255.3	6364.4	6395.8	6268.5	5941.1
30°	7970.0	7852.6	7783.1	7545.0	7306.9	7082.0	6966.3	7010.9	7019.2	6867.1	6486.8
32.5°	8943.9	8914.1	8765.3	8557.0	8251.0	7898.9	7705.4	7634.3	7621.1	7404.5	6953.1
35°	10053.4	10036.9	9879.8	9631.8	9301.1	8811.6	8462.7	8259.3	8242.8	7938.5	7414.4
37.5°	11181.1	11181.1	11027.4	10756.1	10413.9	9802.1	9271.3	8948.9	8896.0	8499.1	7884.0
40°	12080.6	12026.1	12054.2	11940.1	11548.2	10898.4	10169.1	9701.2	9630.1	9153.9	8383.4
42.5°	12591.6	12573.4	12742.1	12869.4	12709.0	12189.8	11157.9	10516.4	10417.2	9874.8	8958.8
45°	12705.7	12685.8	12986.7	13453.0	13677.9	13464.6	12232.8	11374.6	11253.9	10628.8	9575.6
47.5°	12442.8	12403.1	12844.6	13580.4	14301.3	14676.7	13396.9	12305.5	12130.3	11363.0	10208.9
50°	11652.4	11614.4	12282.4	13259.6	14511.3	15500.2	14660.2	13292.7	13024.8	12150.0	10848.8
52.5°	9934.4	9952.5	10999.3	12341.9	14235.2	16012.8	15748.2	14332.8	14010.3	12955.4	11449.0
55°	7738.4	7778.2	9064.6	10542.8	13130.7	15935.1	16490.6	15404.2	15083.5	13712.7	12069.1
57.5°	5540.9	5716.2	6921.6	8385.0	11009.1	14703.1	16652.7	16422.8	16112.0	14539.4	12675.9
60°	3591.5	3622.9	4863.0	6338.0	8383.4	12513.9	16323.6	17195.0	16952.0	15382.7	13183.6
62.5°	2301.7	2323.2	3078.9	4433.1	6033.7	9258.1	15215.7	17530.7	17456.3	15940.0	13671.3
65°	1691.6	1675.1	2068.6	2930.1	4064.3	5709.7	13064.4	17368.6	17515.8	16288.9	14074.8
67.5°	1412.1	1389.0	1582.4	2028.9	2994.5	3242.6	9666.5	16315.3	16854.4	16249.2	14370.8
70°	1286.5	1266.6	1384.0	1506.3	2336.4	2171.1	4873.0	14184.0	15014.0	15797.8	14322.8
72.5°	1089.7	1054.9	1215.3	1337.7	1817.2	1665.1	2014.0	10895.0	11907.0	14350.9	13648.2
75°	844.9	821.8	959.1	1177.3	1365.8	1299.7	1273.3	6615.8	7720.3	11098.5	11940.1
77.5°	669.6	638.3	763.9	917.7	1228.6	980.5	927.6	2849.0	3943.7	7085.3	8934.0
80°	504.3	476.2	580.4	725.9	944.1	739.1	600.2	1162.5	1486.6	3589.8	4492.6
82.5°	358.9	334.0	405.1	532.4	635.0	663.1	368.7	651.5	732.5	1384.0	1003.7
85°	229.8	214.9	271.2	334.0	403.4	426.6	224.9	340.6	373.7	570.5	418.3
87.5°	125.7	102.5	145.5	155.4	186.9	170.4	107.5	124.0	134.0	206.6	176.9
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°	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1	3512.1
2.5°	3525.3	3530.3	3546.8	3551.7	3563.3	3578.3	3588.1	3598.1	3598.1	3608.0	3608.0
5°	3573.3	3584.8	3619.6	3637.7	3667.6	3697.3	3715.4	3736.9	3750.2	3756.8	3760.1
7.5°	3665.9	3684.1	3733.7	3765.0	3816.4	3857.7	3885.8	3915.5	3922.2	3940.3	3933.7
10°	3791.6	3813.0	3869.3	3928.7	3989.9	4041.2	4067.7	4089.1	4097.4	4100.7	4092.5
12.5°	3935.4	3966.9	4039.5	4112.3	4176.8	4221.5	4228.0	4223.1	4199.9	4180.2	4180.2
15°	4112.3	4140.4	4221.5	4300.8	4363.6	4371.9	4330.6	4304.1	4276.0	4271.1	4271.1
17.5°	4324.0	4338.8	4413.2	4490.9	4496.0	4467.9	4406.7	4381.9	4355.4	4337.2	4338.8
20°	4570.4	4565.3	4618.3	4651.3	4616.6	4530.7	4438.0	4396.7	4370.3	4348.8	4350.4
22.5°	4864.6	4826.6	4820.1	4811.8	4719.2	4538.9	4413.2	4360.3	4319.0	4289.2	4299.2
25°	5292.9	5147.4	5046.6	4990.3	4782.0	4494.3	4333.9	4216.4	4138.7	4087.5	4107.4
27.5°	5828.7	5584.0	5329.3	5192.0	4782.0	4403.3	4142.1	3951.9	3824.6	3771.7	3798.1
30°	6339.6	6083.3	5707.9	5435.2	4770.5	4254.5	3832.9	3568.3	3419.5	3366.6	3398.0
32.5°	6776.2	6496.7	6109.8	5701.4	4742.3	4013.1	3449.2	3156.6	3012.7	2949.8	2981.3
35°	7181.3	6883.6	6513.3	5994.0	4667.8	3659.2	3027.6	2804.4	2644.0	2543.1	2576.2
37.5°	7596.3	7242.4	6895.2	6258.5	4534.0	3245.9	2703.5	2513.4	2324.9	2189.3	2225.7
40°	8047.7	7624.4	7303.6	6415.7	4314.0	2852.4	2452.2	2278.6	2078.5	1934.6	1962.8
42.5°	8575.2	8082.4	7758.3	6496.7	4013.1	2572.9	2288.5	2118.2	1929.7	1812.3	1835.4
45°	9125.8	8586.7	8173.4	6495.0	3677.4	2442.3	2235.5	2066.9	1858.5	1736.2	1756.0
47.5°	9702.9	9114.2	8532.2	6389.2	3386.4	2460.4	2205.8	1956.1	1726.3	1607.2	1623.8
50°	10281.6	9691.3	8879.5	6190.8	3262.4	2420.7	2095.0	1800.7	1529.5	1422.0	1428.6
52.5°	10855.4	10304.7	9178.7	5908.0	3136.7	2273.6	1952.8	1599.0	1448.5	1374.1	1374.1
55°	11432.4	10911.6	9504.4	5496.4	2822.5	2101.7	1714.7	1522.9	1384.0	1316.2	1309.5
57.5°	12011.2	11612.7	9813.7	5084.6	2427.4	1890.0	1584.0	1430.3	1319.5	1261.7	1251.7
60°	12613.0	12414.7	10132.8	4706.0	2037.2	1618.8	1488.2	1355.9	1243.4	1179.0	1174.0
62.5°	13233.2	13297.6	10382.4	4218.2	1678.3	1453.4	1402.2	1266.6	1157.4	1096.2	1094.6
65°	13858.2	14149.2	10546.2	3541.9	1360.9	1296.3	1309.5	1169.0	1058.2	1005.3	1003.7
67.5°	14329.4	14762.7	10499.9	2680.4	1116.1	1147.6	1193.8	1066.5	962.4	921.0	922.7
70°	14382.4	14689.9	10043.5	1835.4	934.3	1002.0	1064.9	965.7	858.1	828.4	830.0
72.5°	13677.9	13697.8	8771.9	1198.8	790.4	879.7	929.3	863.2	759.0	729.2	727.5
75°	11831.0	11328.3	6440.5	790.4	661.4	755.6	802.0	755.6	654.8	661.4	638.3
77.5°	8963.7	8022.9	3910.6	562.2	552.3	635.0	697.8	664.7	578.7	649.8	572.2
80°	4618.3	4340.5	1744.4	420.0	436.5	507.7	573.8	530.7	458.1	436.5	398.5
82.5°	1058.2	1230.2	687.9	300.9	315.8	365.4	438.2	398.5	329.0	277.8	274.5
85°	370.4	405.1	304.2	188.5	185.2	228.2	297.7	266.2	223.2	178.6	188.5
87.5°	117.4	153.8	114.1	76.1	79.3	102.5	137.2	125.7	104.1	67.8	71.1
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)