

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: P970307

Luminaire Tested: **NAV-SB6B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32167.6 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

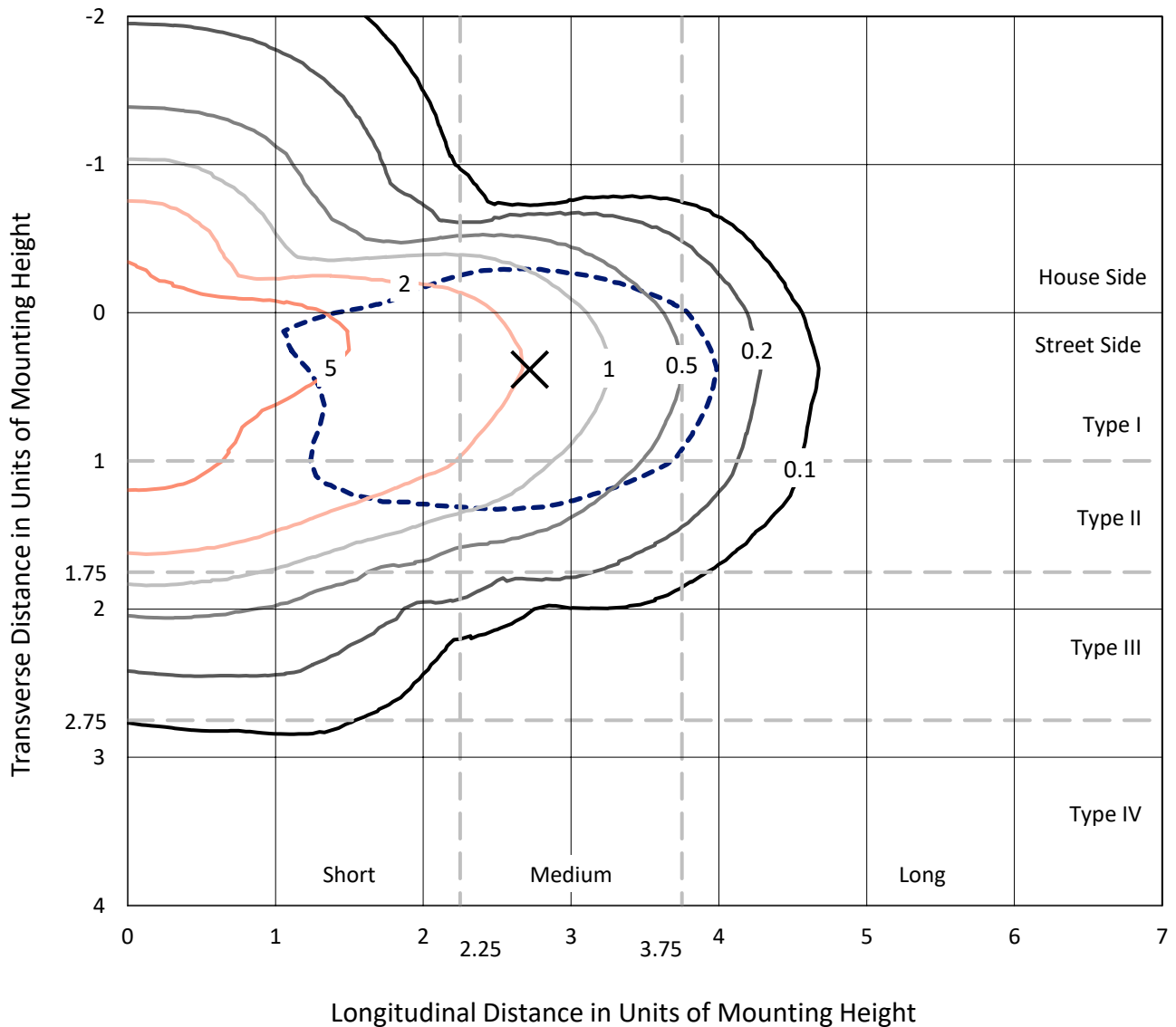
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

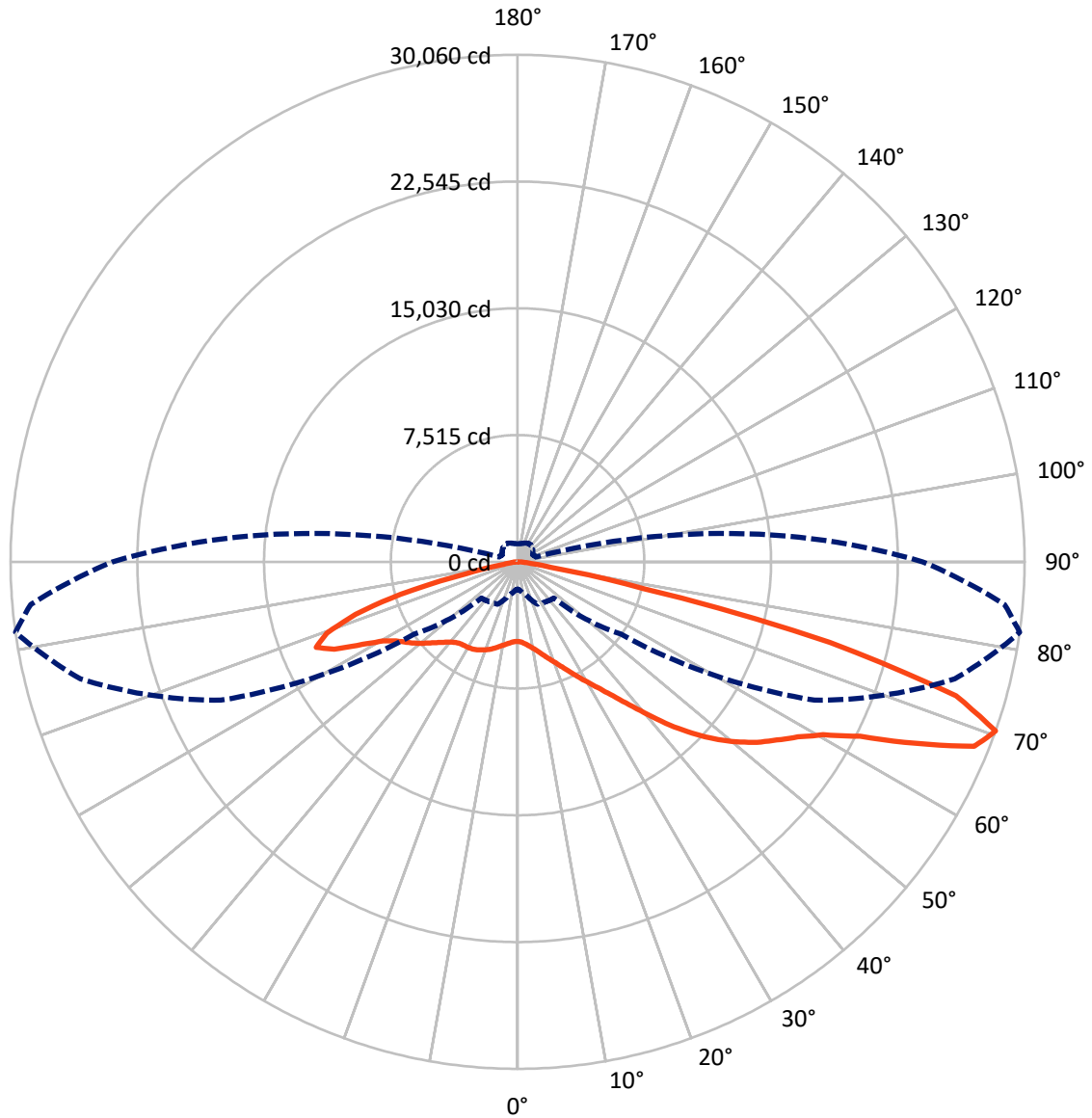
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7930.1	0.0	7930.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	24237.5	0.0	24237.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	32167.6	0.0	32167.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.3	1.4
10°-20°	1279.3	4.0
20°-30°	2140.2	6.7
30°-40°	3343.6	10.4
40°-50°	5325.0	16.6
50°-60°	7410.4	23.0
60°-70°	7751.6	24.1
70°-80°	4051.4	12.6
80°-90°	420.7	1.3
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°	32167.6	100.0
0°-180°	32167.6	100.0

Coefficient of Utilization

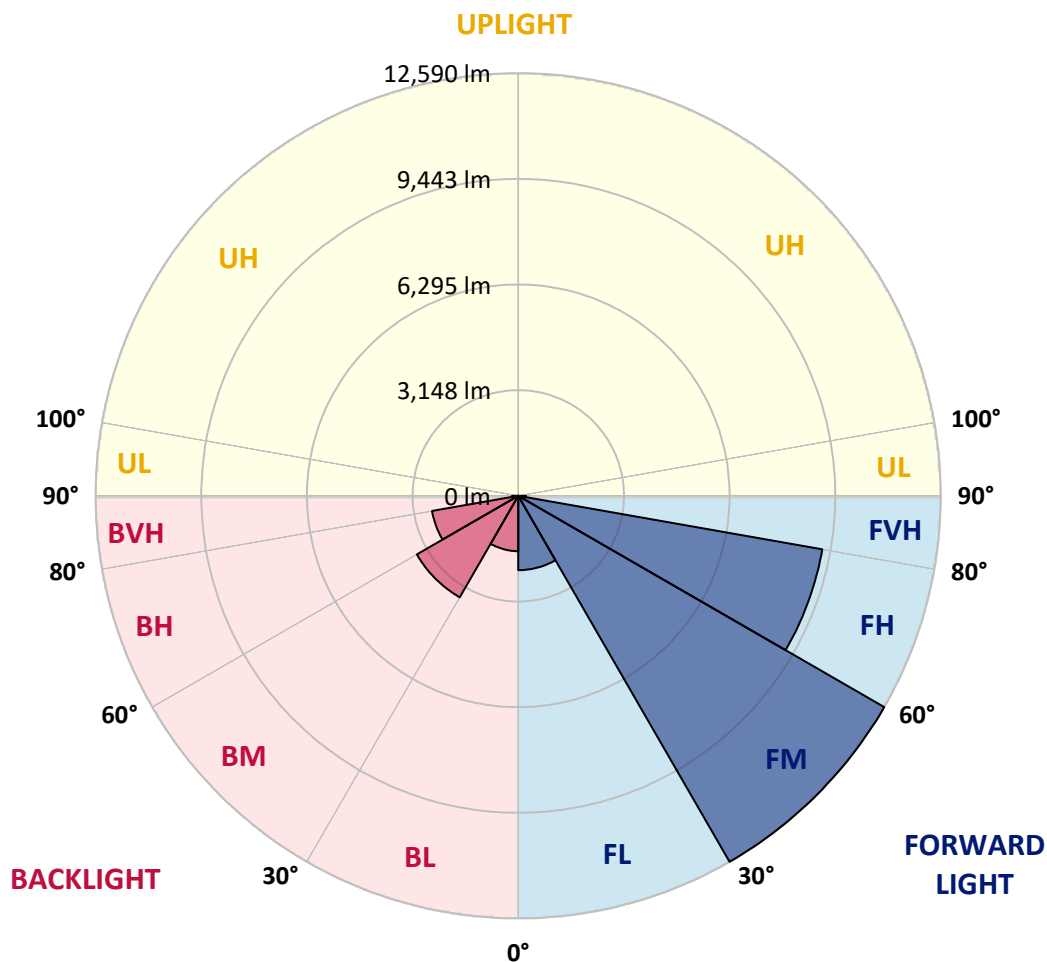


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.1	6.9			
FM (30°-60°)	12590.1	39.1			
FH (60°-80°)	9196.8	28.6			G4/12000
FVH (80°-90°)	235.5	0.7			G3/500
BL (0°-30°)	1649.7	5.1	B3/2500		
BM (30°-60°)	3488.9	10.8	B3/5000		
BH (60°-80°)	2606.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	185.2	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1
2.5°	4828.8	4856.1	4847.6	4839.0	4839.0	4827.1	4825.4	4808.4	4794.6	4772.5	4767.4
5°	4890.3	4919.3	4915.9	4922.7	4944.9	4950.0	4955.2	4944.9	4917.5	4890.3	4878.3
7.5°	4835.6	4868.0	4878.3	4919.3	4987.5	5049.0	5095.1	5113.8	5088.3	5049.0	5030.2
10°	4651.3	4687.1	4723.0	4820.3	4941.5	5086.6	5209.5	5282.8	5277.7	5240.2	5207.7
12.5°	4277.5	4315.0	4391.8	4581.3	4803.3	5059.3	5288.0	5441.6	5494.5	5467.2	5410.9
15°	3978.7	4011.2	4069.2	4263.8	4552.3	4941.5	5317.0	5615.7	5750.6	5735.2	5666.9
17.5°	3970.2	3983.9	4019.7	4111.9	4333.8	4757.1	5286.2	5786.4	6044.1	6042.5	5957.1
20°	4120.5	4125.6	4146.0	4164.9	4291.2	4617.2	5207.7	5928.1	6373.6	6373.6	6281.4
22.5°	4328.7	4325.3	4345.8	4328.7	4390.2	4605.2	5158.2	6052.6	6740.6	6767.9	6651.8
25°	4641.1	4624.0	4618.9	4579.6	4591.6	4716.1	5212.8	6194.4	7175.8	7232.1	7087.1
27.5°	5057.6	5030.2	5011.4	4921.0	4890.3	4944.9	5380.1	6365.0	7660.5	7757.9	7573.5
30°	5600.3	5550.9	5523.5	5366.5	5255.6	5264.1	5632.8	6592.1	8167.5	8324.5	8090.7
32.5°	6341.2	6264.3	6190.9	5933.2	5730.1	5663.5	5958.8	6906.1	8717.1	8968.0	8667.6
35°	7170.7	7109.2	7030.7	6633.0	6320.7	6167.0	6399.2	7344.8	9360.6	9758.3	9367.5
37.5°	7969.5	7916.6	7954.2	7418.2	7015.4	6791.8	6976.2	7933.7	10154.4	10741.5	10244.8
40°	8795.6	8754.7	8759.9	8247.8	7778.3	7527.4	7675.9	8672.7	11064.2	11910.8	11299.7
42.5°	9693.5	9662.8	9560.4	9106.3	8578.8	8345.0	8481.6	9526.2	12040.5	13242.2	12456.9
45°	10698.8	10680.1	10584.5	10063.9	9459.6	9196.8	9381.1	10468.4	13021.9	14495.0	13619.4
47.5°	11567.6	11583.0	11571.1	11132.4	10505.9	10120.2	10340.4	11451.6	13935.2	15672.8	14734.0
50°	11985.8	12066.1	12183.9	12047.3	11658.1	11265.6	11308.2	12400.7	14805.6	16777.1	15802.5
52.5°	11767.4	11919.3	12240.1	12458.7	12608.8	12526.9	12412.5	13342.8	15625.0	17774.0	16813.0
55°	10953.2	11166.6	11699.1	12226.5	12992.9	13588.6	13738.9	14387.5	16423.8	18651.3	17768.9
57.5°	9469.9	9816.4	10294.3	11361.1	12651.6	14102.5	15285.3	15836.7	17270.4	19588.4	18769.1
60°	6926.6	7390.9	7984.9	9572.3	11456.7	13827.6	16601.3	18062.4	18473.8	20802.0	20071.4
62.5°	4432.8	4719.6	5265.8	6761.0	8927.1	12419.4	17004.1	20844.7	20513.5	22792.2	22024.2
65°	3034.8	3219.2	3719.3	4559.1	5771.1	9244.6	15925.4	22930.5	23753.2	25946.6	25362.8
67.5°	2205.3	2345.3	2772.0	3507.7	3760.3	5470.6	12358.0	22834.9	26902.5	29196.5	28288.5
70°	1607.9	1706.9	2065.4	2772.0	2893.2	3043.4	7486.5	19410.8	26834.2	30060.3	28973.0
72.5°	1191.5	1259.7	1500.4	2150.7	2341.9	2055.1	3705.7	14107.6	23058.5	27189.3	26317.0
75°	862.0	913.2	1090.7	1645.4	1874.2	1565.3	1848.6	8244.4	16084.1	19125.8	19279.4
77.5°	658.9	698.1	814.2	1205.1	1500.4	1174.3	1147.1	3792.7	7626.4	7664.0	8094.1
80°	529.1	554.7	617.9	848.3	1150.5	879.0	747.6	1531.0	2410.2	2039.7	2140.4
82.5°	389.2	431.8	522.3	595.7	822.8	606.0	455.7	773.3	916.6	788.6	795.4
85°	221.9	250.9	315.8	426.7	525.7	370.4	261.2	343.1	426.7	349.9	312.3
87.5°	78.5	102.4	110.9	167.3	228.7	153.6	100.8	99.0	140.0	104.1	87.0
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°	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1	4716.1
2.5°	4750.3	4741.8	4707.6	4661.6	4613.7	4567.7	4552.3	4519.8	4497.7	4485.7	4499.4
5°	4845.9	4818.6	4738.4	4636.0	4528.4	4412.3	4330.4	4255.3	4200.7	4149.5	4170.0
7.5°	4982.4	4934.7	4796.4	4617.2	4426.0	4233.1	4089.7	3980.5	3907.1	3859.3	3869.6
10°	5141.2	5067.8	4856.1	4588.1	4292.9	4016.4	3847.3	3753.4	3707.4	3681.8	3688.6
12.5°	5323.8	5219.7	4917.5	4521.6	4089.7	3773.9	3657.9	3630.6	3632.3	3634.0	3637.4
15°	5549.1	5404.0	4967.0	4376.5	3825.2	3587.9	3567.4	3611.8	3657.9	3680.1	3678.4
17.5°	5803.4	5598.7	4975.7	4137.5	3565.7	3468.4	3533.3	3628.9	3698.8	3729.6	3736.4
20°	6076.6	5796.7	4914.2	3799.6	3352.4	3371.1	3487.2	3610.0	3686.9	3726.2	3736.4
22.5°	6388.9	6008.2	4767.4	3444.5	3178.2	3265.3	3401.9	3521.4	3601.5	3640.8	3651.0
25°	6745.6	6245.5	4537.0	3145.8	3028.1	3145.8	3282.4	3381.4	3446.3	3482.1	3492.3
27.5°	7141.7	6493.1	4229.7	2908.5	2896.6	3022.9	3135.6	3212.4	3246.5	3273.8	3284.1
30°	7539.4	6718.4	3857.6	2729.4	2782.3	2901.8	2981.9	3016.1	3026.3	3031.4	3043.4
32.5°	7969.5	6912.9	3466.8	2580.8	2673.0	2784.0	2831.8	2847.1	2799.3	2766.9	2777.1
35°	8490.2	7121.2	3084.3	2463.1	2565.5	2661.1	2676.4	2662.7	2606.5	2539.8	2543.3
37.5°	9133.7	7380.6	2778.9	2379.4	2464.7	2528.0	2509.1	2505.7	2510.8	2432.3	2437.4
40°	9922.2	7718.6	2555.2	2314.6	2382.8	2396.4	2343.6	2372.6	2398.2	2278.7	2282.2
42.5°	10797.9	8126.5	2413.6	2270.2	2314.6	2282.2	2200.2	2232.7	2229.2	2072.1	2070.5
45°	11690.5	8570.3	2364.1	2237.8	2251.4	2186.5	2096.1	2104.6	2032.9	1891.2	1896.4
47.5°	12578.2	9046.5	2394.8	2210.4	2172.9	2099.5	2029.5	1992.0	1886.1	1780.3	1780.3
50°	13448.7	9546.7	2507.5	2155.8	2065.4	2022.6	1971.5	1904.9	1792.2	1701.8	1694.9
52.5°	14256.0	10050.2	2633.7	2065.4	1930.5	1956.1	1923.7	1846.8	1735.9	1643.8	1645.4
55°	15020.8	10553.8	2683.2	1940.7	1804.2	1898.1	1879.3	1737.6	1604.5	1529.4	1522.5
57.5°	15853.7	11159.7	2628.6	1782.0	1701.8	1831.5	1759.8	1602.8	1526.0	1469.6	1464.5
60°	17007.5	12110.5	2510.8	1585.7	1604.5	1732.5	1609.6	1544.8	1461.1	1398.0	1394.5
62.5°	18924.4	13883.9	2321.4	1391.1	1490.1	1585.7	1537.9	1473.0	1387.7	1326.2	1326.2
65°	21757.9	16348.7	1964.6	1239.2	1362.1	1442.4	1461.1	1396.3	1307.5	1242.6	1246.0
67.5°	24147.6	17895.2	1486.7	1112.9	1230.7	1326.2	1379.1	1316.0	1222.1	1159.0	1160.7
70°	24016.1	16772.0	1135.1	988.3	1114.6	1211.9	1280.2	1230.7	1130.0	1070.2	1075.3
72.5°	21331.2	14030.7	918.3	862.0	996.8	1092.4	1174.3	1136.8	1034.4	976.3	976.3
75°	15671.0	9959.7	734.0	734.0	850.0	967.8	1058.3	1034.4	940.5	899.5	887.5
77.5°	6605.7	4178.5	575.2	609.4	706.6	831.3	943.9	952.4	870.5	921.7	836.4
80°	1756.4	1152.2	438.7	479.6	554.7	686.1	821.0	817.6	728.9	681.0	633.2
82.5°	669.1	454.1	312.3	337.9	401.1	525.7	650.4	670.9	582.1	503.6	503.6
85°	257.8	194.5	192.9	203.2	233.8	348.2	491.6	508.7	438.7	372.1	384.1
87.5°	66.5	58.0	71.6	68.3	107.5	186.0	281.7	291.9	267.9	155.3	221.9
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)