

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: P971048

Luminaire Tested: **NAV-SB6C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42603.1 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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

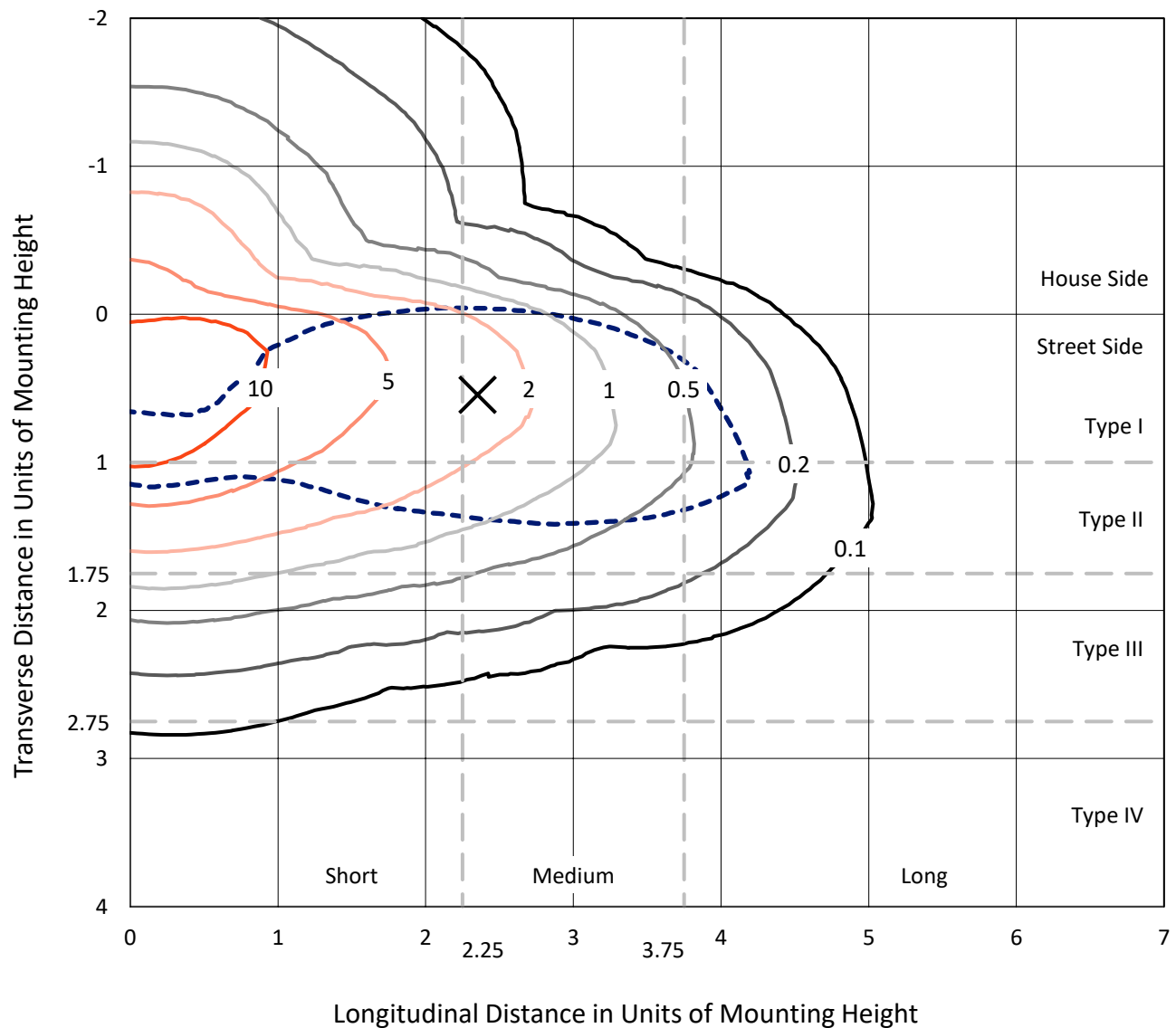


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Iso-Footcandle Lines of Horizontal Illumination

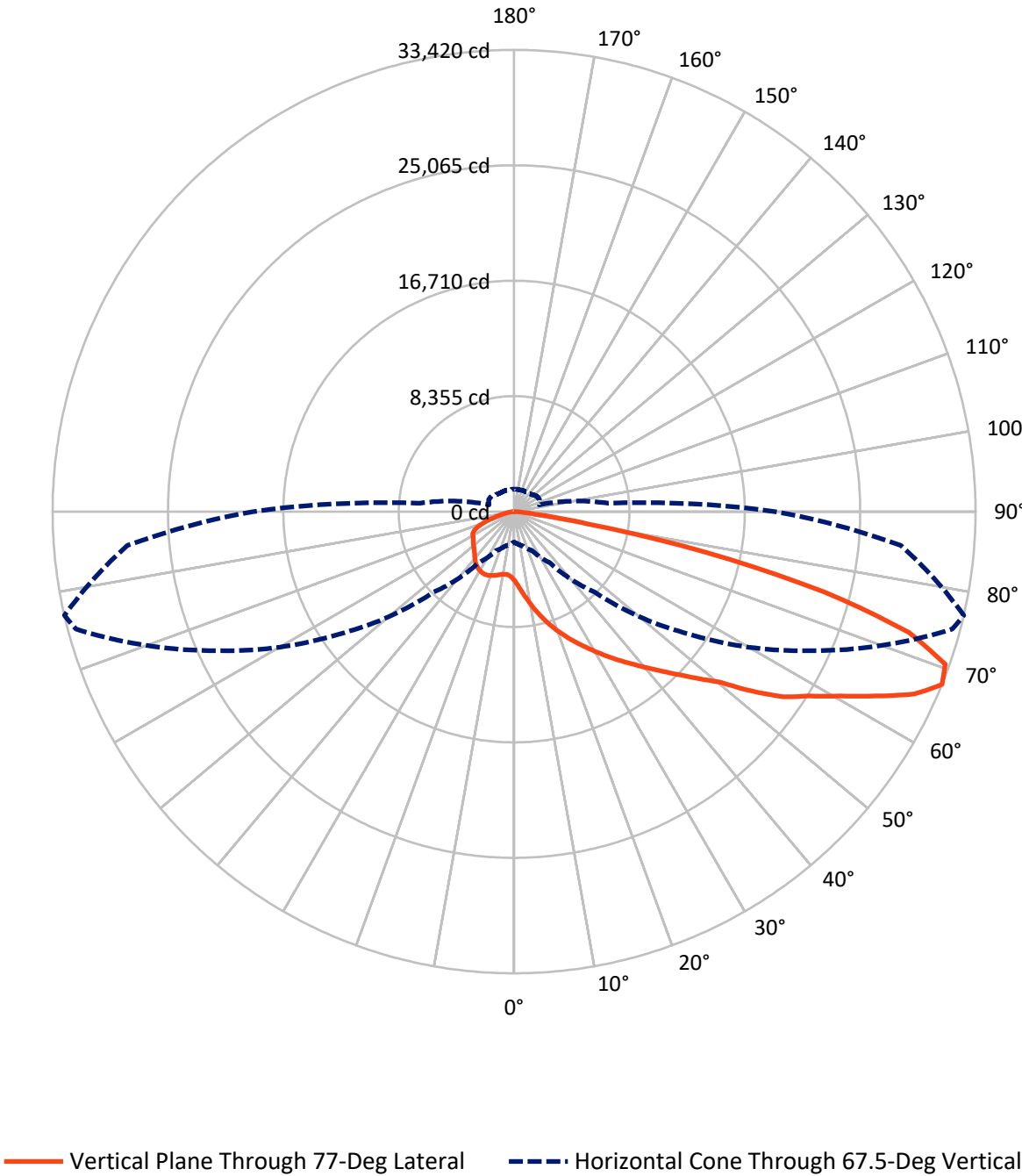
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8058.8	0.0	8058.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	34544.3	0.0	34544.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	42603.1	0.0	42603.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	1.3
10°-20°	1924.9	4.5
20°-30°	3634.4	8.5
30°-40°	5854.9	13.7
40°-50°	8008.4	18.8
50°-60°	9033.6	21.2
60°-70°	8431.7	19.8
70°-80°	4622.0	10.8
80°-90°	557.5	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°	42603.1	100.0
0°-180°	42603.1	100.0

Coefficient of Utilization



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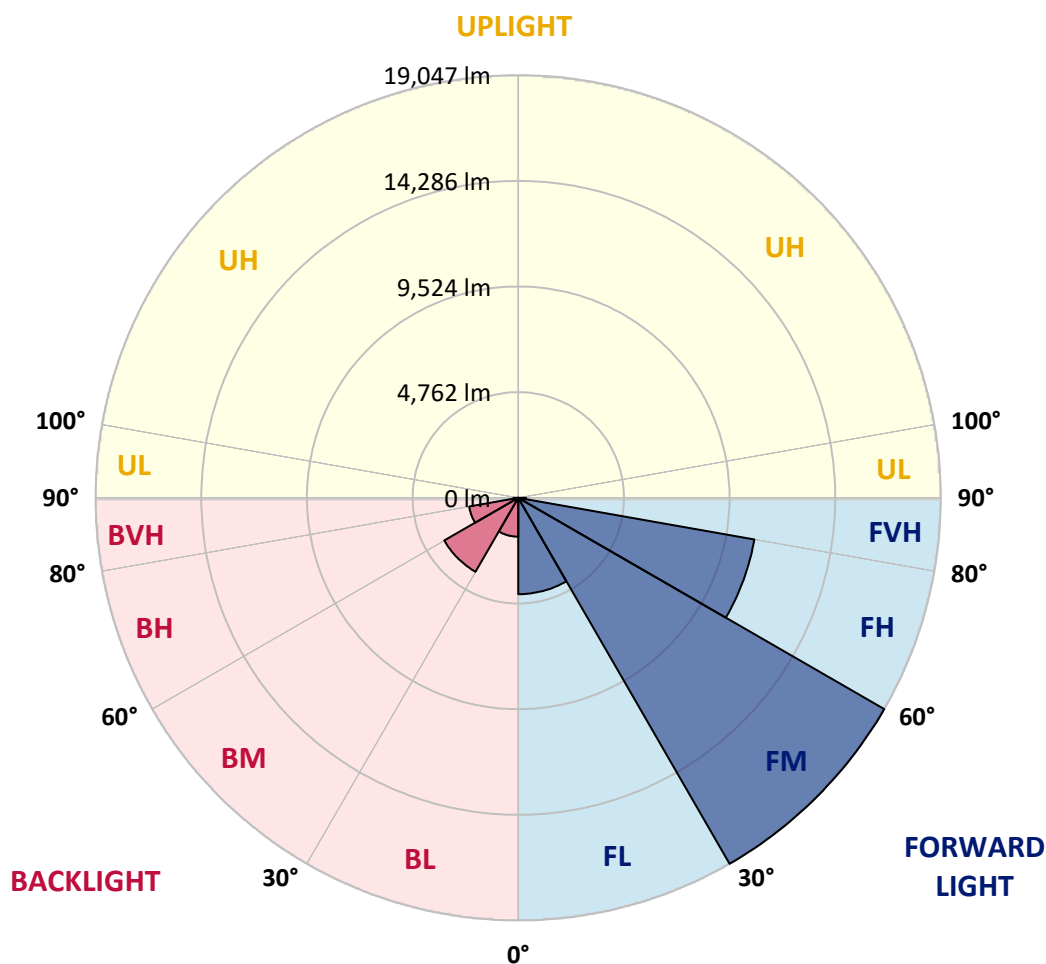
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4342.9	10.2			
FM	(30°-60°)	19047.4	44.7			
FH	(60°-80°)	10805.4	25.4			G4/12000
FVH	(80°-90°)	348.7	0.8			G3/500
BL	(0°-30°)	1752.2	4.1	B3/2500		
BM	(30°-60°)	3849.5	9.0	B3/5000		
BH	(60°-80°)	2248.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	208.9	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6
2.5°	6258.8	6302.7	6247.8	6247.8	6063.1	5966.3	5781.6	5640.8	5387.9	5343.9	5176.8
5°	7397.9	7452.9	7375.9	7343.0	7125.3	6925.1	6615.0	6309.4	5858.5	5812.4	5418.7
7.5°	8279.8	8350.2	8282.0	8246.8	8053.3	7828.9	7466.1	7039.5	6403.9	6313.8	5744.2
10°	8998.9	9010.0	8987.9	9001.1	8849.3	8664.6	8293.0	7795.9	7002.1	6879.0	6137.8
12.5°	9405.8	9456.3	9500.3	9579.4	9553.1	9438.7	9104.5	8510.7	7635.4	7477.1	6566.7
15°	9597.1	9685.0	9784.0	9966.6	10113.9	10142.5	9887.4	9278.2	8279.8	8088.5	6999.9
17.5°	9665.2	9748.9	9905.0	10168.8	10485.5	10698.8	10584.5	10023.7	8917.6	8697.6	7455.1
20°	10010.6	10034.8	10129.3	10380.0	10723.0	11077.1	11162.9	10740.7	9548.7	9300.2	7925.7
22.5°	10749.5	10701.1	10727.4	10841.8	11088.1	11431.2	11626.9	11374.0	10197.4	9911.5	8400.8
25°	11969.9	11829.2	11688.5	11556.6	11681.9	11875.4	12097.6	12007.4	10877.0	10514.1	8880.2
27.5°	13511.6	13340.1	13030.0	12596.7	12445.0	12513.2	12612.1	12594.5	11505.9	11138.7	9375.0
30°	15029.0	14828.9	14459.4	13832.7	13432.4	13252.1	13177.3	13126.8	12189.9	11798.5	9874.1
32.5°	16240.7	16082.4	15719.5	15018.0	14437.4	14129.5	13881.1	13700.7	12904.6	12513.2	10402.0
35°	17300.7	17153.4	16737.7	15972.5	15341.3	15013.6	14688.1	14303.3	13647.9	13252.1	10969.3
37.5°	18268.4	18121.0	17551.4	16755.4	16119.8	15893.2	15603.0	14949.8	14393.5	14019.5	11569.7
40°	18879.7	18846.7	18314.5	17412.9	16753.1	16641.0	16544.2	15699.7	15220.3	14872.9	12229.5
42.5°	19035.9	19108.5	18686.2	17945.1	17316.1	17225.9	17452.5	16548.6	16148.4	15816.3	12977.2
45°	18659.8	18868.7	18591.7	18088.0	17716.3	17667.9	18257.3	17476.7	17175.3	16871.9	13878.8
47.5°	17707.6	18061.6	17947.2	17876.9	17824.1	18033.0	18965.5	18461.9	18338.7	18074.8	14908.0
50°	15785.5	16456.3	16656.4	17100.6	17610.8	18316.8	19609.8	19537.2	19697.7	19431.6	16161.6
52.5°	12462.6	13386.2	14547.4	15660.2	16955.4	18222.1	20318.0	21081.1	21758.4	21613.3	18154.0
55°	10287.6	10703.3	11596.1	13636.9	15684.3	17824.1	20636.8	22328.0	23803.6	23673.8	19664.8
57.5°	8616.3	8987.9	9537.7	11242.1	13762.3	16920.3	20834.8	23088.8	25204.4	25191.2	21155.8
60°	6823.9	7217.6	7780.6	8987.9	11516.9	15358.9	20790.8	23955.4	26992.4	27102.3	22974.6
62.5°	4800.8	5234.0	5858.5	6984.5	9223.3	13335.7	19893.5	24582.1	29097.0	29396.1	25162.6
65°	3155.8	3441.6	3912.3	4884.3	6872.3	10734.0	18180.3	24663.4	31348.9	31854.6	27216.7
67.5°	2212.4	2322.3	2599.4	3127.2	4530.3	8231.5	15451.3	23821.2	32850.9	33420.4	28107.3
70°	1726.3	1781.3	1922.1	2133.1	2845.7	5535.3	11840.2	21630.9	32529.8	33123.6	27177.1
72.5°	1491.1	1543.8	1596.5	1623.0	1908.9	3417.5	8020.3	18085.8	29506.0	29908.5	23629.8
75°	1352.5	1365.7	1409.7	1400.9	1455.8	2216.8	4629.2	13177.3	23280.2	23141.6	17443.7
77.5°	1136.9	1154.6	1227.1	1216.2	1293.1	1515.3	2403.6	8504.1	15092.7	14151.6	9709.2
80°	963.2	972.0	1051.2	1038.0	1123.8	1097.4	1227.1	4334.5	6401.7	5423.1	2799.5
82.5°	334.3	413.5	802.7	826.9	857.6	664.1	708.2	1768.1	1955.1	1497.6	587.2
85°	162.8	173.7	409.1	580.6	578.4	334.3	345.2	631.2	615.7	483.8	195.8
87.5°	26.3	33.0	48.4	226.5	180.3	87.9	118.8	123.1	127.5	110.0	44.0
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°	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6	4998.6
2.5°	5053.7	4943.7	4712.7	4499.4	4332.4	4171.8	4081.7	4004.7	3960.7	3951.9	3951.9
5°	5190.0	4963.5	4543.4	4189.4	3958.4	3787.0	3696.8	3639.6	3611.0	3593.4	3591.2
7.5°	5385.8	5053.7	4455.5	4053.1	3811.2	3688.0	3641.8	3633.0	3630.8	3633.0	3639.6
10°	5656.3	5201.0	4446.7	4020.0	3817.7	3749.6	3747.4	3749.6	3758.4	3760.5	3762.8
12.5°	5948.7	5352.8	4481.9	4048.6	3901.3	3863.9	3857.3	3855.1	3861.7	3866.1	3868.3
15°	6267.6	5552.8	4541.3	4110.2	3993.6	3954.0	3947.5	3934.3	3932.1	3929.8	3927.7
17.5°	6595.3	5750.8	4607.2	4176.2	4053.1	3998.0	3973.8	3943.1	3918.9	3912.3	3918.9
20°	6927.4	5946.5	4653.4	4209.2	4057.5	3980.5	3932.1	3879.3	3837.5	3813.3	3822.1
22.5°	7281.4	6151.0	4682.0	4200.3	4017.9	3912.3	3824.3	3762.8	3699.0	3657.2	3659.4
25°	7626.6	6329.2	4679.7	4154.2	3940.9	3806.7	3694.6	3615.4	3527.4	3483.5	3483.5
27.5°	7958.7	6489.7	4624.8	4072.8	3830.9	3681.4	3547.2	3452.7	3366.9	3325.1	3322.9
30°	8301.8	6623.9	4539.0	3954.0	3701.2	3536.2	3388.9	3307.5	3230.6	3190.9	3188.8
32.5°	8642.7	6747.0	4418.1	3806.7	3551.6	3393.3	3248.1	3173.4	3127.2	3127.2	3129.4
35°	9003.3	6832.8	4257.5	3635.2	3393.3	3241.6	3127.2	3083.2	3078.8	3052.4	3045.8
37.5°	9383.8	6887.7	4061.9	3459.3	3237.2	3094.2	3059.0	3006.2	2962.2	2905.1	2896.2
40°	9784.0	6942.7	3826.5	3276.7	3072.2	2993.0	2977.6	2907.3	2782.0	2641.2	2621.4
42.5°	10270.0	6980.1	3582.4	3094.2	2898.5	2872.0	2894.1	2773.1	2573.0	2467.5	2469.6
45°	10833.0	7041.6	3358.1	2913.9	2720.4	2720.4	2812.7	2654.3	2489.4	2423.5	2434.5
47.5°	11563.1	7184.6	3149.2	2715.9	2555.4	2599.4	2632.4	2511.5	2419.1	2337.7	2335.5
50°	12618.7	7527.7	2933.7	2515.9	2430.1	2518.0	2471.9	2401.5	2293.7	2227.7	2221.2
52.5°	13929.4	7730.0	2742.4	2335.5	2322.3	2410.3	2344.3	2278.4	2197.0	2108.9	2091.4
55°	14822.3	7767.3	2581.8	2203.5	2249.8	2241.0	2216.8	2157.3	2113.3	1996.8	1999.1
57.5°	15820.7	7842.2	2449.9	2124.4	2203.5	2106.8	2098.0	2047.4	1990.2	1911.0	1884.7
60°	17014.8	7958.7	2335.5	2093.6	2164.0	2018.8	1974.9	1955.1	1897.9	1858.3	1869.3
62.5°	18316.8	8064.3	2218.9	2098.0	2117.8	1933.0	1867.0	1860.5	1825.3	1812.1	1812.1
65°	19205.2	7776.2	2073.8	2093.6	2045.2	1845.1	1761.6	1759.3	1730.7	1726.3	1724.2
67.5°	18895.1	6863.5	1878.1	2032.1	1970.5	1757.2	1664.8	1656.0	1618.6	1620.7	1620.7
70°	17342.5	5561.6	1607.6	1880.3	1878.1	1677.9	1563.6	1535.0	1484.4	1493.2	1502.0
72.5°	14430.8	4121.2	1244.8	1627.4	1730.7	1605.4	1447.0	1400.9	1337.1	1345.9	1343.7
75°	10421.8	2801.7	906.1	1238.1	1506.4	1519.6	1332.7	1253.5	1176.5	1189.7	1194.1
77.5°	5333.0	1587.8	666.4	853.3	1183.2	1381.1	1229.3	1123.8	1106.2	1229.3	1211.8
80°	1739.5	796.1	461.9	598.2	776.3	1130.4	1077.6	956.6	952.2	980.8	842.2
82.5°	519.0	336.5	296.8	393.6	428.9	866.4	930.3	723.5	622.4	655.4	677.3
85°	178.1	162.8	169.3	195.8	204.5	508.0	651.0	479.4	453.0	499.2	492.6
87.5°	41.8	57.2	48.4	44.0	44.0	123.1	252.9	200.1	277.1	184.7	178.1
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)