

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: P969997

Luminaire Tested: **NAV-SB6A-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969997
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-SB6A-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24824.5 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

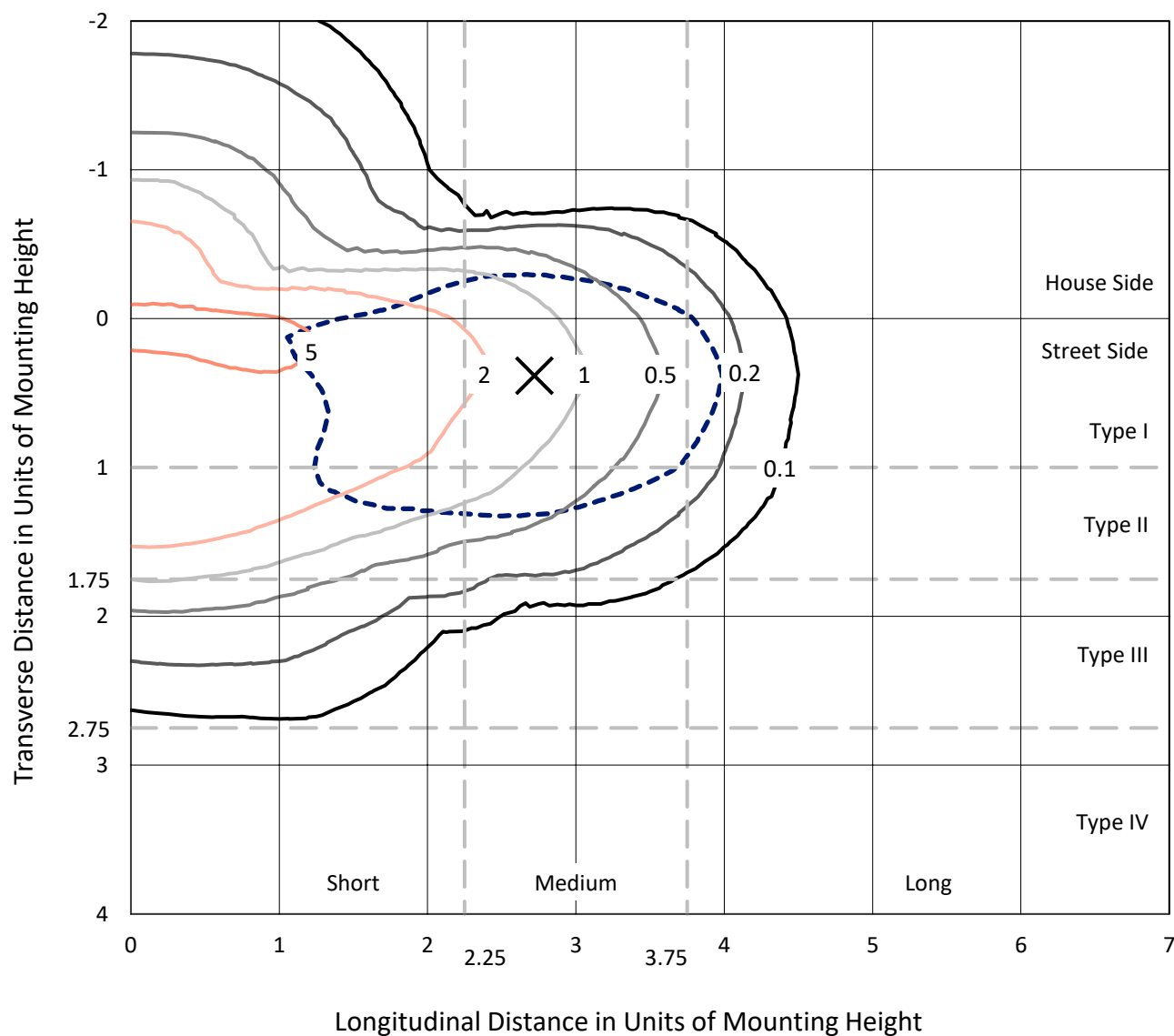
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969997
 CATALOG NUMBER: NAV-SB6A-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

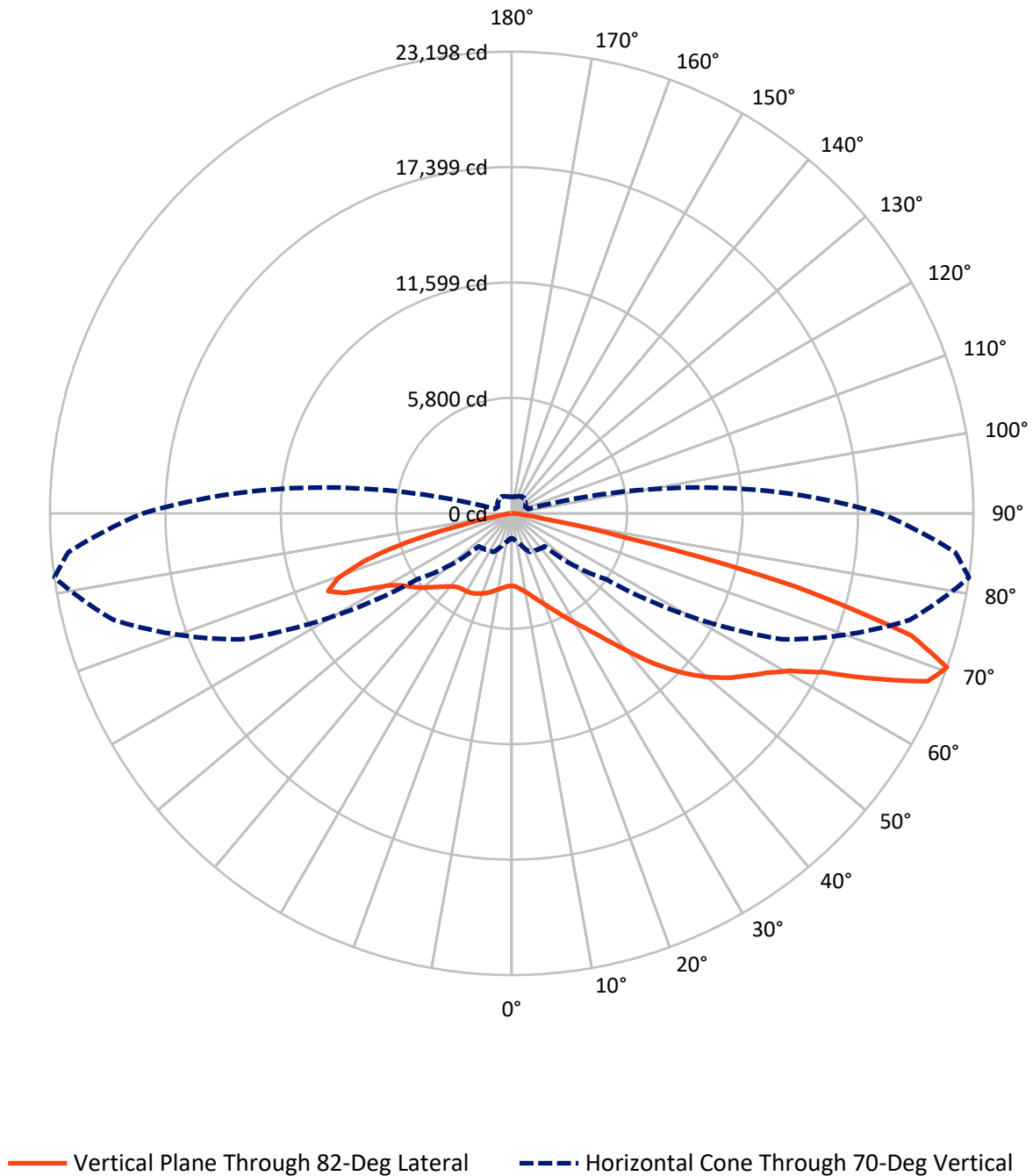
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P969997
CATALOG NUMBER: NAV-SB6A-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P969997

CATALOG NUMBER: NAV-SB6A-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6119.8	0.0	6119.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18704.6	0.0	18704.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	24824.5	0.0	24824.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	1.4
10°-20°	987.3	4.0
20°-30°	1651.7	6.7
30°-40°	2580.3	10.4
40°-50°	4109.4	16.6
50°-60°	5718.8	23.0
60°-70°	5982.1	24.1
70°-80°	3126.6	12.6
80°-90°	324.7	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°	24824.5	100.0
0°-180°	24824.5	100.0

Coefficient of Utilization



REPORT NUMBER: P969997

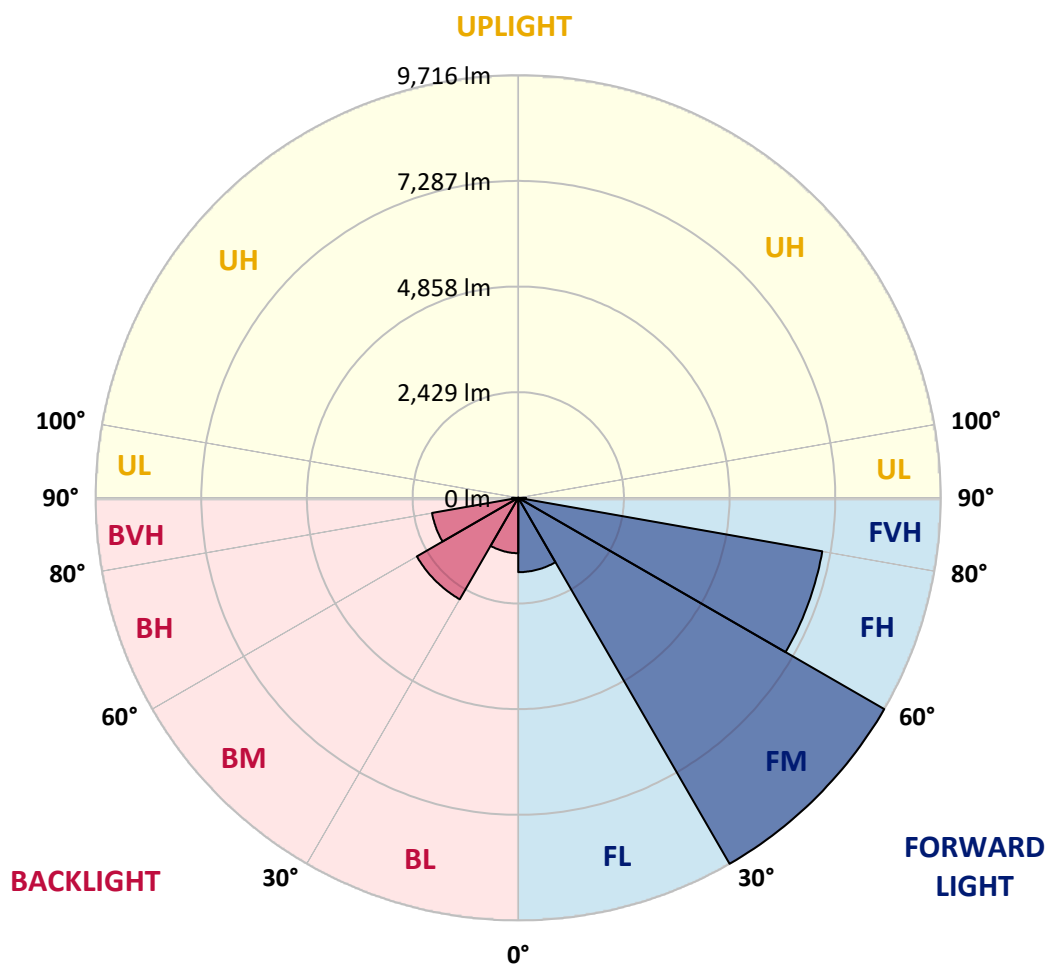
CATALOG NUMBER: NAV-SB6A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1709.4	6.9			
FM	(30°-60°)	9716.0	39.1			
FH	(60°-80°)	7097.4	28.6			G3/7500
FVH	(80°-90°)	181.7	0.7			G2/225
BL	(0°-30°)	1273.1	5.1	B3/2500		
BM	(30°-60°)	2692.5	10.8	B3/5000		
BH	(60°-80°)	2011.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	142.9	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-G3

Type II Medium



REPORT NUMBER: P969997

CATALOG NUMBER: NAV-SB6A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6
2.5°	3726.5	3747.6	3741.0	3734.4	3734.4	3725.2	3723.9	3710.7	3700.1	3683.0	3679.1
5°	3773.9	3796.3	3793.7	3799.0	3816.1	3820.1	3824.0	3816.1	3795.1	3773.9	3764.7
7.5°	3731.8	3756.8	3764.7	3796.3	3849.0	3896.4	3932.0	3946.5	3926.8	3896.4	3882.0
10°	3589.6	3617.2	3644.8	3719.9	3813.4	3925.4	4020.3	4076.9	4072.9	4043.9	4018.9
12.5°	3301.0	3330.0	3389.3	3535.5	3706.7	3904.3	4080.8	4199.4	4240.2	4219.2	4175.7
15°	3070.5	3095.6	3140.3	3290.5	3513.1	3813.4	4103.3	4333.8	4437.8	4426.0	4373.3
17.5°	3063.9	3074.5	3102.2	3173.3	3344.5	3671.2	4079.5	4465.5	4664.4	4663.1	4597.2
20°	3179.9	3183.9	3199.6	3214.1	3311.6	3563.2	4018.9	4574.8	4918.7	4918.7	4847.5
22.5°	3340.6	3337.9	3353.7	3340.6	3387.9	3554.0	3980.8	4671.0	5201.9	5222.9	5133.3
25°	3581.7	3568.4	3564.5	3534.2	3543.4	3639.6	4022.9	4780.3	5537.8	5581.2	5469.3
27.5°	3903.0	3882.0	3867.4	3797.6	3773.9	3816.1	4152.0	4912.0	5911.9	5986.9	5844.7
30°	4321.9	4283.7	4262.7	4141.4	4055.8	4062.4	4346.9	5087.3	6303.0	6424.3	6243.8
32.5°	4893.6	4834.3	4777.7	4578.8	4422.1	4370.7	4598.6	5329.6	6727.2	6920.9	6689.0
35°	5533.8	5486.4	5425.7	5118.8	4877.8	4759.3	4938.3	5668.1	7223.8	7530.8	7229.1
37.5°	6150.3	6109.4	6138.4	5724.8	5413.9	5241.3	5383.6	6122.6	7836.3	8289.5	7906.1
40°	6787.9	6756.2	6760.2	6364.9	6002.7	5809.1	5923.7	6692.9	8538.5	9191.8	8720.2
42.5°	7480.7	7457.0	7377.9	7027.6	6620.6	6440.1	6545.4	7351.6	9291.9	10219.2	9613.4
45°	8256.6	8242.0	8168.3	7766.5	7300.3	7097.4	7239.7	8078.7	10049.3	11186.1	10510.3
47.5°	8927.0	8938.9	8929.7	8591.1	8107.7	7810.0	7979.9	8837.4	10754.1	12095.0	11370.5
50°	9249.8	9311.7	9402.5	9297.2	8996.8	8693.8	8726.8	9569.9	11425.9	12947.3	12195.1
52.5°	9081.2	9198.3	9446.1	9614.6	9730.5	9667.4	9579.0	10296.9	12058.2	13716.6	12975.0
55°	8452.9	8617.5	9028.5	9435.5	10027.0	10486.7	10602.6	11103.1	12674.6	14393.7	13712.7
57.5°	7308.1	7575.6	7944.4	8767.6	9763.5	10883.1	11796.0	12221.5	13328.0	15116.8	14484.6
60°	5345.4	5703.7	6162.1	7387.2	8841.4	10671.1	12811.7	13939.2	14256.6	16053.4	15489.6
62.5°	3420.9	3642.2	4063.7	5217.7	6889.2	9584.4	13122.5	16086.4	15830.8	17589.3	16996.6
65°	2342.1	2484.4	2870.3	3518.4	4453.6	7134.3	12290.0	17696.0	18330.9	20023.6	19573.1
67.5°	1701.9	1809.9	2139.2	2706.9	2901.9	4221.8	9536.9	17622.2	20761.3	22531.7	21830.9
70°	1240.9	1317.2	1593.9	2139.2	2232.8	2348.7	5777.5	14979.9	20708.6	23198.2	22359.1
72.5°	919.4	972.1	1157.8	1659.8	1807.3	1586.0	2859.7	10887.1	17794.8	20982.6	20309.5
75°	665.2	704.7	841.7	1269.9	1446.4	1208.0	1426.6	6362.4	12412.5	14759.9	14878.4
77.5°	508.5	538.7	628.3	930.0	1157.8	906.3	885.2	2927.0	5885.5	5914.5	6246.5
80°	408.4	428.1	476.8	654.7	887.9	678.3	577.0	1181.6	1860.0	1574.1	1651.9
82.5°	300.3	333.2	403.0	459.7	634.9	467.6	351.7	596.8	707.4	608.5	613.9
85°	171.3	193.6	243.6	329.3	405.7	285.9	201.5	264.8	329.3	270.1	241.1
87.5°	60.6	79.0	85.6	129.0	176.5	118.6	77.7	76.4	108.0	80.4	67.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969997

CATALOG NUMBER: NAV-SB6A-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6	3639.6
2.5°	3665.9	3659.4	3633.0	3597.4	3560.5	3525.0	3513.1	3488.1	3471.0	3461.7	3472.3
5°	3739.7	3718.6	3656.7	3577.7	3494.6	3405.2	3341.9	3283.9	3241.8	3202.2	3218.1
7.5°	3845.1	3808.2	3701.5	3563.2	3415.6	3266.8	3156.2	3071.8	3015.2	2978.3	2986.2
10°	3967.6	3910.9	3747.6	3540.8	3312.9	3099.5	2969.1	2896.6	2861.1	2841.3	2846.6
12.5°	4108.5	4028.1	3795.1	3489.4	3156.2	2912.4	2822.8	2801.8	2803.2	2804.4	2807.1
15°	4282.4	4170.4	3833.2	3377.5	2952.0	2768.8	2753.0	2787.3	2822.8	2840.0	2838.7
17.5°	4478.6	4320.6	3839.8	3193.0	2751.7	2676.7	2726.7	2800.5	2854.5	2878.2	2883.4
20°	4689.5	4473.4	3792.4	2932.2	2587.1	2601.6	2691.1	2786.0	2845.3	2875.5	2883.4
22.5°	4930.5	4636.8	3679.1	2658.2	2452.7	2519.9	2625.3	2717.5	2779.4	2809.7	2817.6
25°	5205.8	4819.9	3501.3	2427.7	2336.8	2427.7	2533.1	2609.4	2659.6	2687.2	2695.1
27.5°	5511.4	5010.8	3264.1	2244.6	2235.4	2332.9	2419.8	2479.1	2505.4	2526.5	2534.4
30°	5818.3	5184.8	2977.0	2106.3	2147.2	2239.3	2301.2	2327.6	2335.5	2339.5	2348.7
32.5°	6150.3	5334.9	2675.4	1991.7	2062.8	2148.4	2185.3	2197.2	2160.3	2135.3	2143.2
35°	6552.0	5495.6	2380.3	1900.8	1979.8	2053.6	2065.5	2054.9	2011.5	1960.1	1962.7
37.5°	7048.6	5695.8	2144.5	1836.3	1902.1	1950.9	1936.3	1933.8	1937.7	1877.1	1881.1
40°	7657.2	5956.6	1971.9	1786.2	1838.8	1849.4	1808.6	1831.0	1850.7	1758.5	1761.2
42.5°	8332.9	6271.5	1862.6	1751.9	1786.2	1761.2	1697.9	1722.9	1720.4	1599.1	1597.9
45°	9021.8	6613.9	1824.4	1726.9	1737.5	1687.4	1617.6	1624.2	1568.9	1459.5	1463.5
47.5°	9706.9	6981.5	1848.1	1705.8	1676.9	1620.2	1566.2	1537.2	1455.6	1373.9	1373.9
50°	10378.6	7367.4	1935.1	1663.7	1593.9	1561.0	1521.4	1470.1	1383.1	1313.3	1308.0
52.5°	11001.7	7756.0	2032.6	1593.9	1489.8	1509.6	1484.5	1425.3	1339.7	1268.5	1269.9
55°	11591.8	8144.5	2070.7	1497.7	1392.4	1464.8	1450.3	1341.0	1238.2	1180.3	1175.0
57.5°	12234.7	8612.3	2028.6	1375.2	1313.3	1413.4	1358.1	1236.9	1177.6	1134.2	1130.2
60°	13125.1	9345.9	1937.7	1223.7	1238.2	1337.0	1242.2	1192.1	1127.6	1078.8	1076.1
62.5°	14604.4	10714.5	1791.5	1073.6	1149.9	1223.7	1186.8	1136.8	1070.9	1023.5	1023.5
65°	16791.0	12616.7	1516.2	956.3	1051.1	1113.0	1127.6	1077.5	1009.0	959.0	961.6
67.5°	18635.2	13810.1	1147.3	858.8	949.8	1023.5	1064.4	1015.6	943.2	894.4	895.7
70°	18533.7	12943.4	876.0	762.7	860.2	935.2	987.9	949.8	872.1	825.9	829.8
72.5°	16461.7	10827.9	708.7	665.2	769.3	843.1	906.3	877.3	798.3	753.5	753.5
75°	12093.8	7686.2	566.4	566.4	656.0	746.9	816.7	798.3	725.8	694.2	685.0
77.5°	5097.7	3224.6	443.9	470.3	545.3	641.5	728.5	735.0	671.8	711.3	645.4
80°	1355.5	889.2	338.6	370.1	428.1	529.5	633.6	631.0	562.4	525.6	488.7
82.5°	516.4	350.3	241.1	260.9	309.5	405.7	501.8	517.7	449.2	388.6	388.6
85°	199.0	150.2	148.8	156.7	180.5	268.8	379.4	392.6	338.6	287.2	296.4
87.5°	51.4	44.8	55.4	52.7	83.0	143.6	217.3	225.3	206.8	119.8	171.3
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)