

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: P969842

Luminaire Tested: **NAV-SB6A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969842
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-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27626.8 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

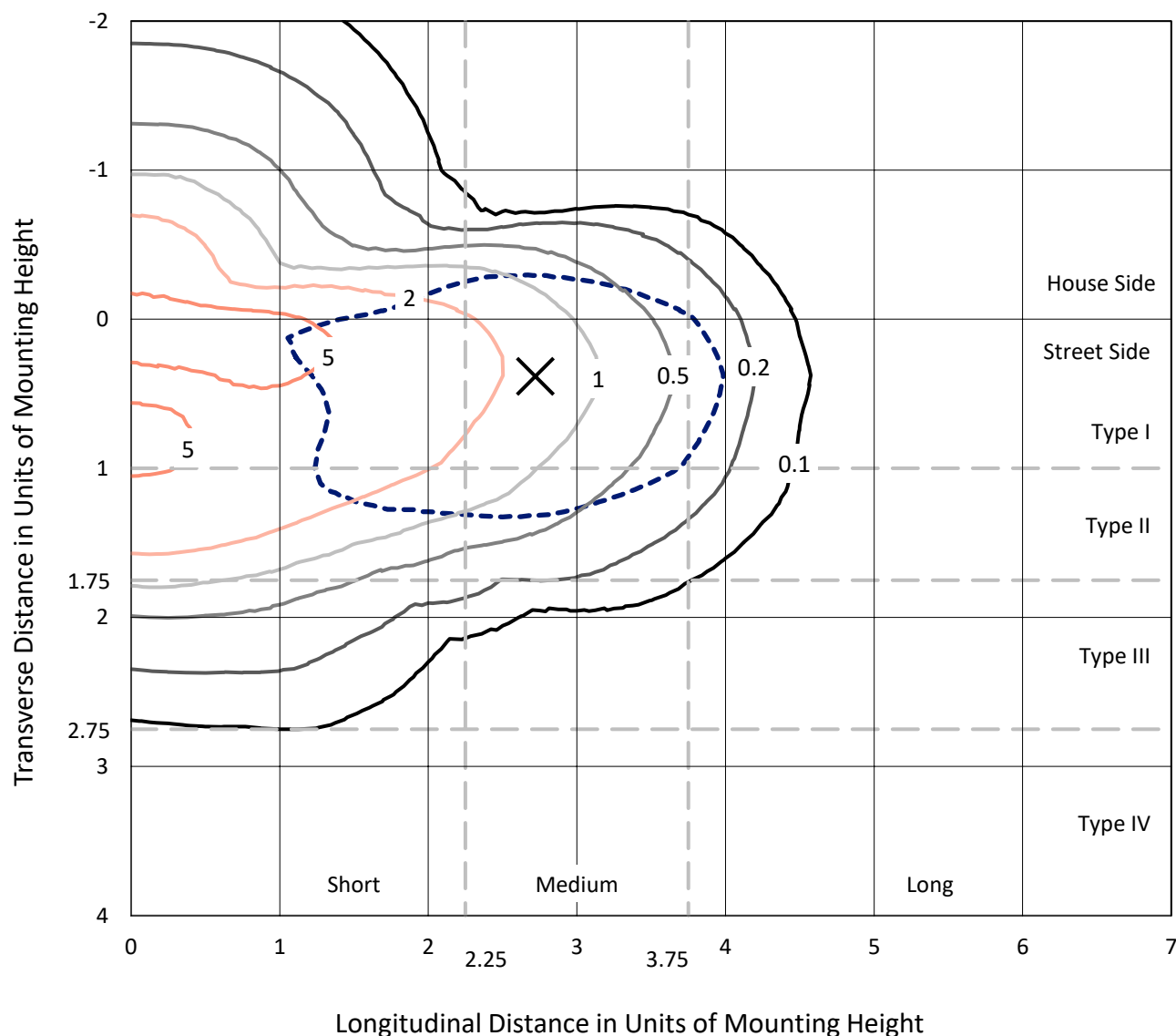
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

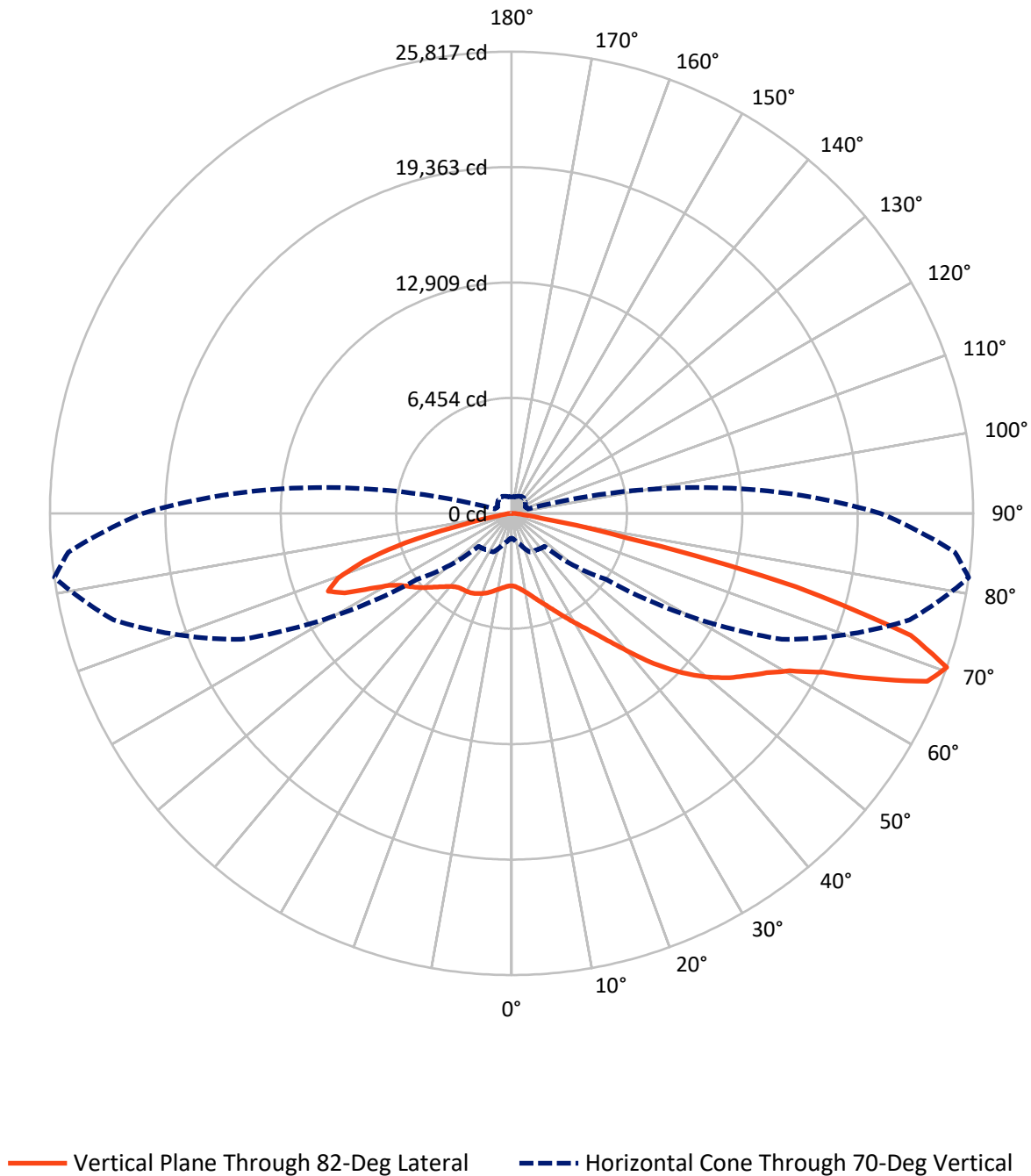
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	6810.7	0.0	6810.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20816.1	0.0	20816.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	27626.8	0.0	27626.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	1.4
10°-20°	1098.7	4.0
20°-30°	1838.1	6.7
30°-40°	2871.6	10.4
40°-50°	4573.3	16.6
50°-60°	6364.4	23.0
60°-70°	6657.4	24.1
70°-80°	3479.5	12.6
80°-90°	361.3	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°	27626.8	100.0
0°-180°	27626.8	100.0

Coefficient of Utilization



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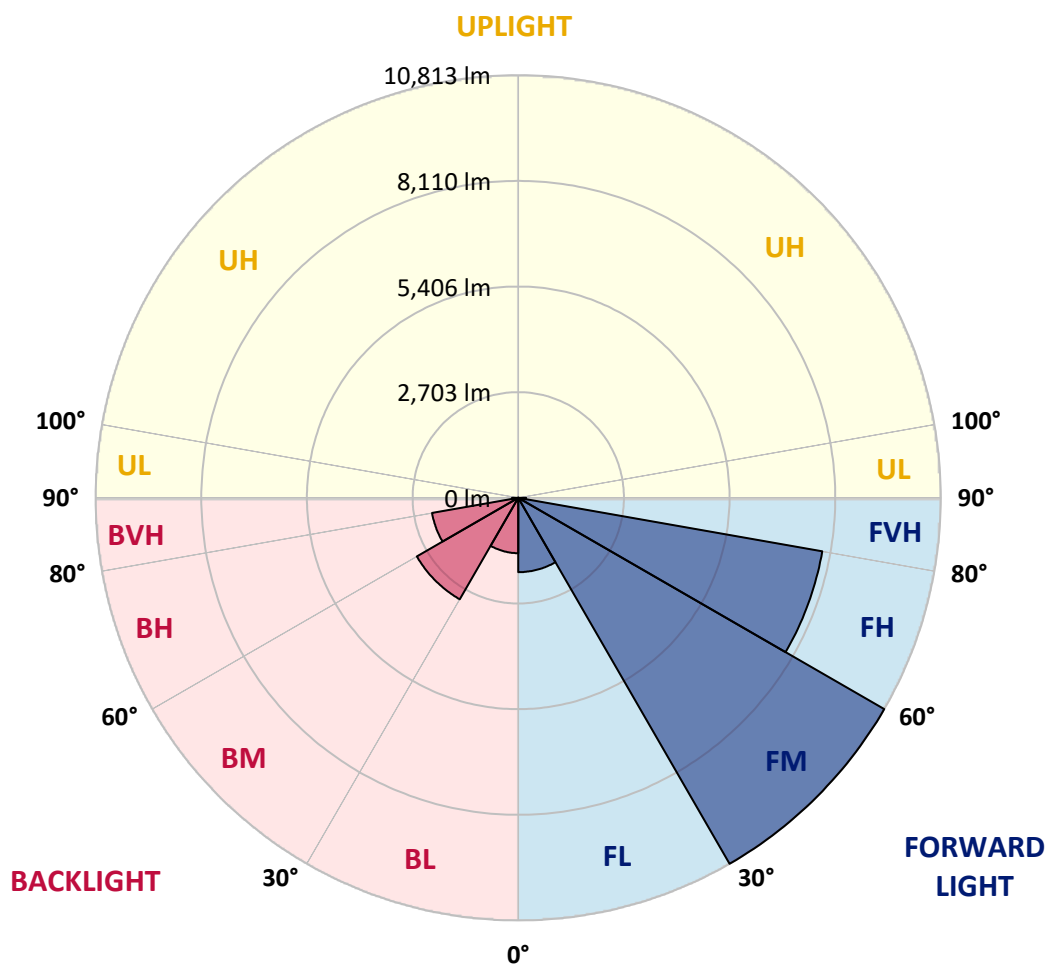
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1902.4	6.9			
FM	(30°-60°)	10812.9	39.1			
FH	(60°-80°)	7898.6	28.6			G4/12000
FVH	(80°-90°)	202.3	0.7			G2/225
BL	(0°-30°)	1416.9	5.1	B3/2500		
BM	(30°-60°)	2996.4	10.8	B3/5000		
BH	(60°-80°)	2238.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	159.0	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4
2.5°	4147.2	4170.6	4163.3	4156.0	4156.0	4145.7	4144.3	4129.6	4117.8	4098.8	4094.5
5°	4199.9	4224.8	4222.0	4227.8	4246.9	4251.3	4255.7	4246.9	4223.4	4199.9	4189.7
7.5°	4153.1	4180.9	4189.7	4224.8	4283.5	4336.3	4375.9	4392.0	4370.0	4336.3	4320.2
10°	3994.7	4025.5	4056.3	4139.9	4243.9	4368.5	4474.1	4537.2	4532.8	4500.5	4472.6
12.5°	3673.7	3705.9	3771.9	3934.7	4125.2	4345.1	4541.6	4673.5	4718.9	4695.4	4647.0
15°	3417.1	3445.0	3494.8	3661.9	3909.7	4243.9	4566.5	4823.0	4938.8	4925.6	4867.0
17.5°	3409.8	3421.6	3452.3	3531.5	3722.1	4085.6	4540.0	4969.6	5190.9	5189.5	5116.2
20°	3538.8	3543.2	3560.8	3576.9	3685.4	3965.4	4472.6	5091.3	5473.9	5473.9	5394.7
22.5°	3717.7	3714.7	3732.3	3717.7	3770.5	3955.2	4430.2	5198.3	5789.1	5812.5	5712.8
25°	3985.9	3971.3	3966.9	3933.1	3943.4	4050.4	4477.0	5320.0	6162.9	6211.3	6086.7
27.5°	4343.6	4320.2	4304.1	4226.4	4199.9	4246.9	4620.7	5466.5	6579.2	6662.8	6504.4
30°	4809.8	4767.3	4743.8	4609.0	4513.7	4521.0	4837.7	5661.5	7014.6	7149.5	6948.7
32.5°	5446.0	5380.0	5317.0	5095.7	4921.2	4864.0	5117.6	5931.3	7486.6	7702.2	7444.2
35°	6158.5	6105.7	6038.3	5696.7	5428.4	5296.5	5495.8	6308.1	8039.3	8380.9	8045.1
37.5°	6844.5	6799.1	6831.3	6371.1	6025.1	5833.1	5991.3	6813.8	8721.0	9225.3	8798.7
40°	7554.0	7518.9	7523.3	7083.5	6680.3	6464.9	6592.4	7448.6	9502.4	10229.4	9704.6
42.5°	8325.2	8298.8	8210.9	7820.9	7367.9	7167.1	7284.4	8181.6	10340.8	11372.9	10698.5
45°	9188.6	9172.5	9090.4	8643.3	8124.4	7898.5	8056.9	8990.7	11183.8	12448.9	11696.9
47.5°	9934.8	9947.9	9937.7	9561.0	9023.0	8691.7	8880.8	9835.1	11968.1	13460.4	12654.1
50°	10294.0	10362.9	10464.0	10346.8	10012.5	9675.3	9712.0	10650.2	12715.7	14408.9	13571.8
52.5°	10106.3	10236.8	10512.4	10700.0	10829.0	10758.6	10660.4	11459.4	13419.4	15265.0	14439.7
55°	9407.0	9590.3	10047.7	10500.6	11158.9	11670.4	11799.5	12356.6	14105.4	16018.5	15260.6
57.5°	8133.2	8430.7	8841.1	9757.4	10865.7	12111.7	13127.7	13601.1	14832.6	16823.3	16119.7
60°	5948.9	6347.6	6857.8	8221.1	9839.5	11875.8	14257.9	15512.8	15866.1	17865.6	17238.1
62.5°	3807.1	4053.4	4522.5	5806.6	7667.0	10666.3	14603.9	17902.2	17617.9	19574.9	18915.2
65°	2606.5	2764.8	3194.3	3915.6	4956.4	7939.6	13677.4	19693.6	20400.3	22284.0	21782.7
67.5°	1894.0	2014.2	2380.7	3012.6	3229.5	4698.4	10613.6	19611.5	23104.9	25075.2	24295.3
70°	1380.9	1466.0	1773.8	2380.7	2484.8	2613.8	6429.7	16670.9	23046.3	25817.0	24883.1
72.5°	1023.3	1081.9	1288.5	1847.2	2011.3	1765.0	3182.6	12116.1	19803.6	23351.2	22602.1
75°	740.4	784.3	936.7	1413.2	1609.7	1344.3	1587.6	7080.6	13813.7	16426.0	16558.0
77.5°	565.9	599.6	699.3	1034.9	1288.5	1008.6	985.1	3257.3	6549.9	6582.1	6951.6
80°	454.5	476.4	530.6	728.6	988.1	755.0	642.1	1315.0	2069.9	1751.8	1838.3
82.5°	334.3	370.8	448.5	511.6	706.6	520.4	391.4	664.1	787.2	677.3	683.2
85°	190.5	215.5	271.2	366.5	451.5	318.2	224.3	294.7	366.5	300.5	268.2
87.5°	67.4	87.9	95.3	143.7	196.4	131.9	86.5	85.1	120.2	89.4	74.7
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°	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4	4050.4
2.5°	4079.8	4072.4	4043.1	4003.5	3962.4	3922.9	3909.7	3881.9	3862.8	3852.6	3864.2
5°	4161.8	4138.4	4069.5	3981.5	3889.2	3789.5	3719.1	3654.6	3607.7	3563.7	3581.4
7.5°	4279.2	4238.1	4119.4	3965.4	3801.2	3635.6	3512.5	3418.6	3355.5	3314.5	3323.4
10°	4415.5	4352.5	4170.6	3940.5	3686.9	3449.4	3304.3	3223.6	3184.1	3162.0	3168.0
12.5°	4572.3	4482.9	4223.4	3883.3	3512.5	3241.3	3141.5	3118.0	3119.6	3121.0	3124.0
15°	4765.8	4641.2	4265.9	3758.7	3285.2	3081.5	3063.8	3102.0	3141.5	3160.6	3159.2
17.5°	4984.3	4808.4	4273.2	3553.5	3062.4	2978.9	3034.5	3116.6	3176.7	3203.1	3209.0
20°	5218.8	4978.4	4220.5	3263.2	2879.1	2895.2	2994.9	3100.5	3166.4	3200.2	3209.0
22.5°	5487.0	5160.2	4094.5	2958.3	2729.6	2804.4	2921.7	3024.3	3093.1	3126.9	3135.7
25°	5793.5	5363.9	3896.5	2701.8	2600.6	2701.8	2819.1	2904.0	2959.8	2990.5	2999.4
27.5°	6133.6	5576.5	3632.6	2498.0	2487.8	2596.2	2693.0	2758.9	2788.2	2811.7	2820.5
30°	6475.1	5770.0	3313.1	2344.1	2389.5	2492.1	2561.1	2590.4	2599.1	2603.5	2613.8
32.5°	6844.5	5937.1	2977.3	2216.6	2295.7	2391.0	2432.0	2445.2	2404.1	2376.4	2385.1
35°	7291.6	6116.0	2649.0	2115.4	2203.3	2285.4	2298.7	2286.9	2238.5	2181.3	2184.3
37.5°	7844.3	6338.8	2386.6	2043.5	2116.8	2171.1	2155.0	2152.0	2156.4	2089.0	2093.4
40°	8521.6	6629.1	2194.5	1987.9	2046.5	2058.2	2012.8	2037.7	2059.6	1957.0	1960.0
42.5°	9273.7	6979.4	2072.9	1949.8	1987.9	1960.0	1889.6	1917.5	1914.5	1779.7	1778.2
45°	10040.4	7360.5	2030.3	1921.9	1933.6	1877.9	1800.2	1807.5	1746.0	1624.3	1628.7
47.5°	10802.7	7769.6	2056.8	1898.4	1866.1	1803.1	1743.0	1710.7	1619.9	1529.0	1529.0
50°	11550.3	8199.1	2153.5	1851.5	1773.8	1737.2	1693.2	1636.0	1539.2	1461.5	1455.7
52.5°	12243.6	8631.5	2262.0	1773.8	1658.0	1680.0	1652.1	1586.2	1490.9	1411.7	1413.2
55°	12900.4	9064.0	2304.5	1666.8	1549.5	1630.2	1614.1	1492.3	1378.0	1313.5	1307.6
57.5°	13615.8	9584.5	2257.6	1530.4	1461.5	1573.0	1511.4	1376.6	1310.6	1262.2	1257.8
60°	14606.8	10401.0	2156.4	1361.9	1378.0	1488.0	1382.4	1326.7	1254.9	1200.6	1197.7
62.5°	16253.0	11924.1	1993.7	1194.7	1279.8	1361.9	1320.8	1265.2	1191.9	1139.1	1139.1
65°	18686.6	14041.0	1687.4	1064.3	1169.8	1238.7	1254.9	1199.1	1122.9	1067.2	1070.1
67.5°	20738.9	15369.1	1276.8	955.8	1057.0	1139.1	1184.5	1130.3	1049.6	995.4	996.8
70°	20626.0	14404.5	974.9	848.8	957.2	1040.8	1099.5	1057.0	970.5	919.1	923.5
72.5°	18320.0	12050.2	788.6	740.4	856.1	938.2	1008.6	976.3	888.4	838.6	838.6
75°	13459.0	8553.8	630.4	630.4	730.0	831.2	908.9	888.4	807.7	772.5	762.3
77.5°	5673.3	3588.6	494.0	523.4	606.9	713.9	810.7	818.1	747.6	791.6	718.3
80°	1508.5	989.5	376.8	411.9	476.4	589.3	705.1	702.2	626.0	585.0	543.9
82.5°	574.6	389.9	268.2	290.3	344.5	451.5	558.5	576.2	499.9	432.4	432.4
85°	221.4	167.1	165.6	174.5	200.8	299.1	422.2	436.9	376.8	319.6	329.8
87.5°	57.2	49.8	61.6	58.6	92.4	159.8	241.9	250.7	230.1	133.4	190.5
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)