

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: P970927

Luminaire Tested: **NAV-SB6C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970927
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-SB6C-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48797.2 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

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



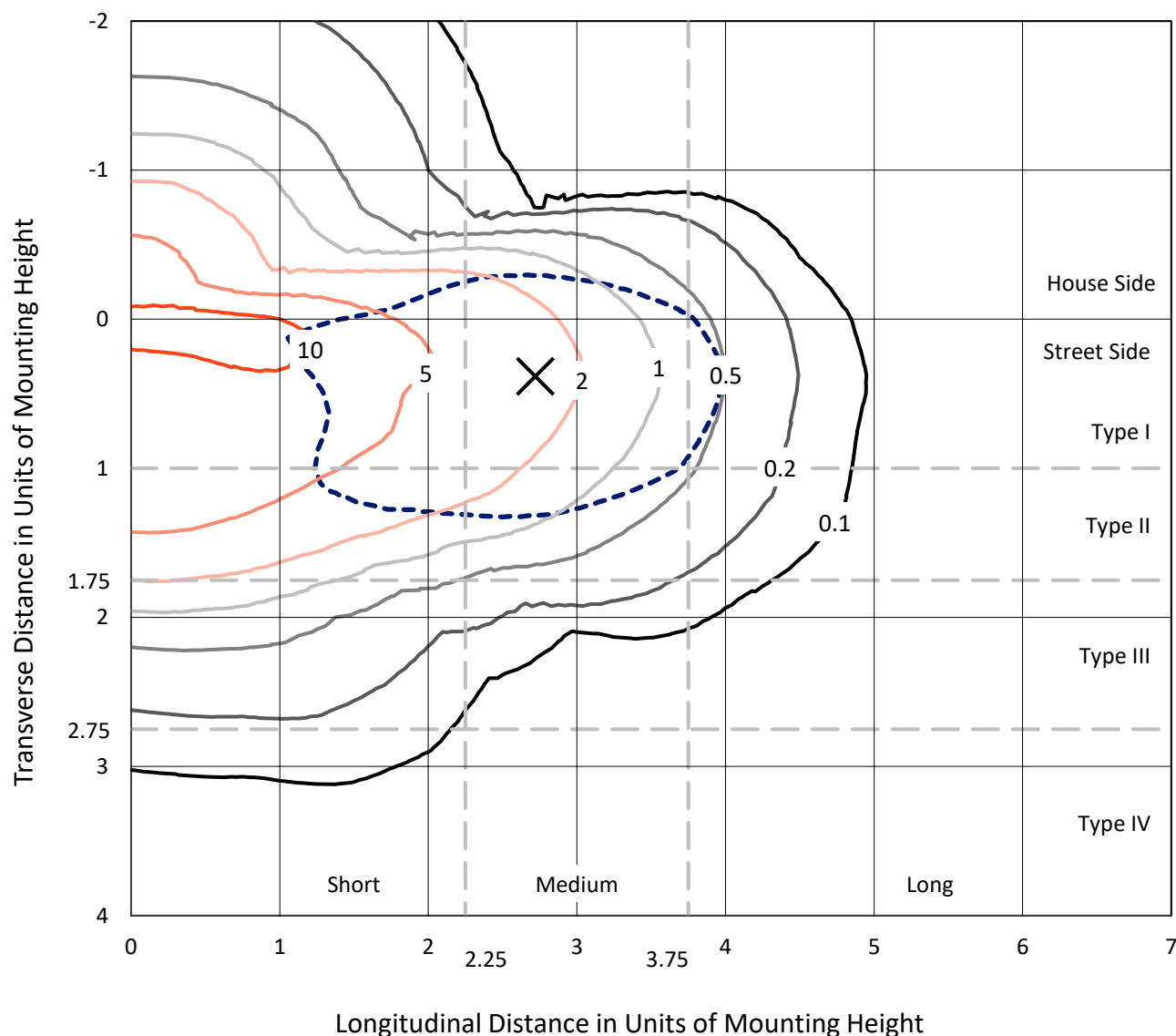
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

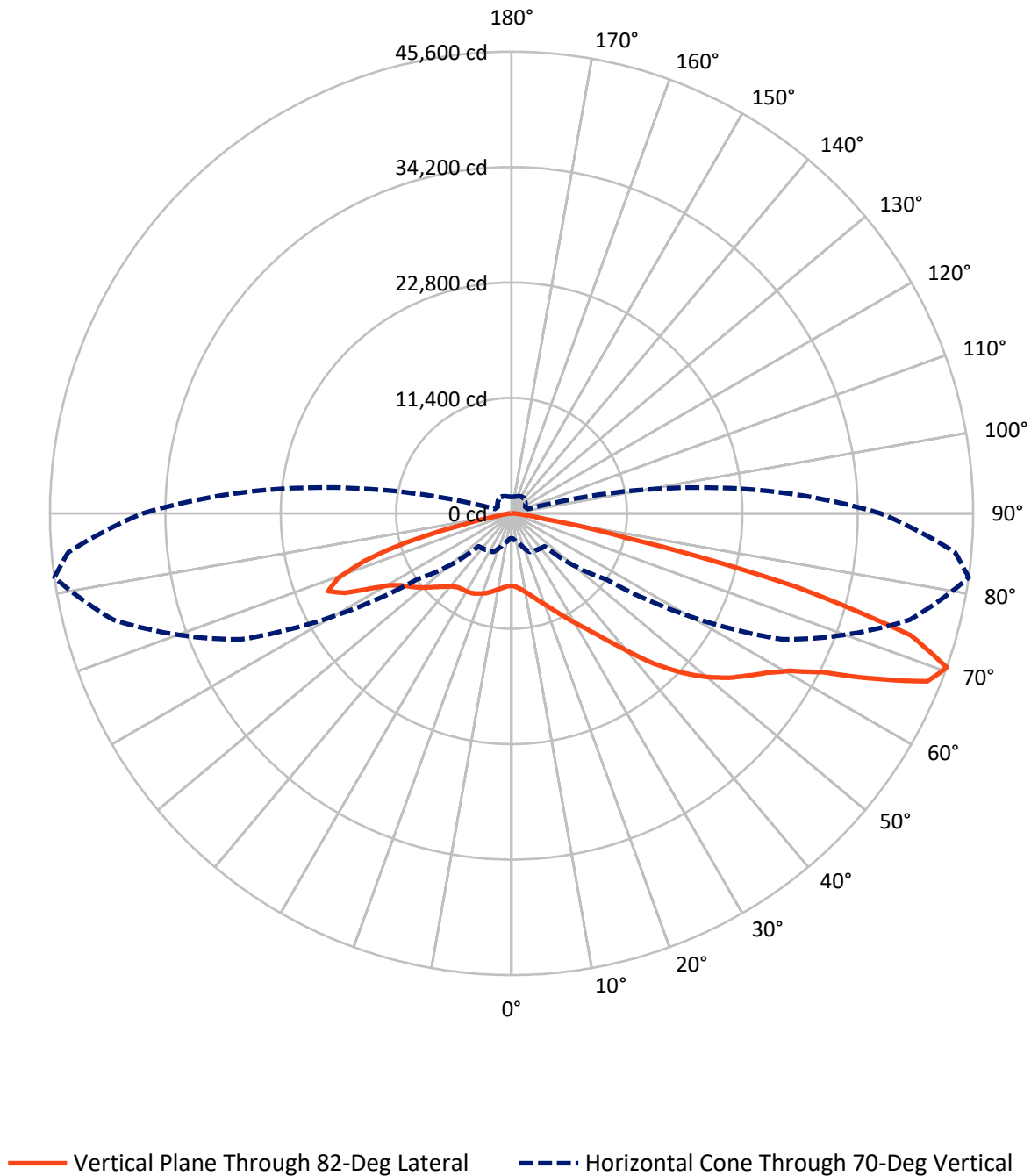
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	12029.7	0.0	12029.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	36767.5	0.0	36767.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	48797.2	0.0	48797.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.5	1.4
10°-20°	1940.7	4.0
20°-30°	3246.6	6.7
30°-40°	5072.1	10.4
40°-50°	8077.9	16.6
50°-60°	11241.4	23.0
60°-70°	11759.0	24.1
70°-80°	6145.9	12.6
80°-90°	638.2	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°	48797.2	100.0
0°-180°	48797.2	100.0

Coefficient of Utilization



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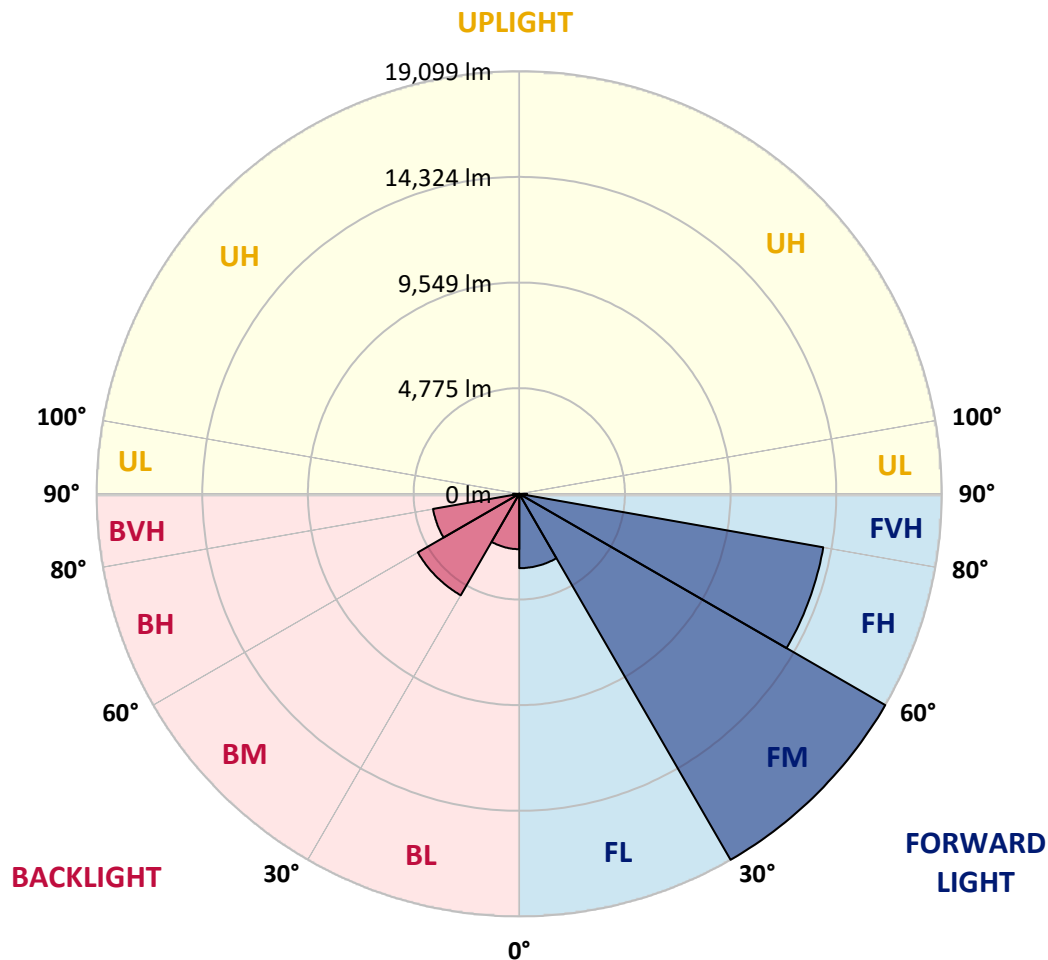
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3360.2	6.9			
FM	(30°-60°)	19098.7	39.1			
FH	(60°-80°)	13951.3	28.6			G5
FVH	(80°-90°)	357.3	0.7			G3/500
BL	(0°-30°)	2502.6	5.1	B4/5000		
BM	(30°-60°)	5292.6	10.8	B4/8500		
BH	(60°-80°)	3953.6	8.1	B4/5000		G4/5000
BVH	(80°-90°)	280.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3
2.5°	7325.2	7366.6	7353.7	7340.7	7340.7	7322.6	7320.0	7294.1	7273.4	7239.7	7232.0
5°	7418.3	7462.4	7457.2	7467.5	7501.3	7509.0	7516.7	7501.3	7459.8	7418.3	7400.3
7.5°	7335.5	7384.7	7400.3	7462.4	7565.9	7659.2	7729.1	7757.6	7718.8	7659.2	7630.7
10°	7055.9	7110.2	7164.6	7312.2	7496.0	7716.2	7902.5	8014.0	8006.2	7949.2	7900.0
12.5°	6488.9	6545.8	6662.3	6949.7	7286.3	7674.7	8021.6	8254.7	8335.0	8293.6	8208.1
15°	6035.7	6084.9	6173.0	6468.1	6905.7	7496.0	8065.7	8518.9	8723.4	8700.1	8596.6
17.5°	6022.7	6043.5	6097.8	6237.6	6574.2	7216.4	8019.1	8777.8	9168.7	9166.2	9036.7
20°	6250.7	6258.3	6289.4	6317.9	6509.6	7004.1	7900.0	8992.7	9668.5	9668.5	9528.7
22.5°	6566.5	6561.3	6592.4	6566.5	6659.7	6986.0	7825.0	9181.7	10225.2	10266.6	10090.5
25°	7040.3	7014.5	7006.7	6947.1	6965.3	7154.3	7907.8	9396.6	10885.5	10970.9	10750.8
27.5°	7672.1	7630.7	7602.2	7465.0	7418.3	7501.3	8161.6	9655.6	11620.8	11768.4	11488.8
30°	8495.5	8420.5	8379.1	8140.8	7972.4	7985.5	8544.7	9999.9	12389.9	12628.1	12273.3
32.5°	9619.3	9502.8	9391.5	9000.4	8692.3	8591.3	9039.3	10476.3	13223.6	13604.2	13148.5
35°	10877.7	10784.5	10665.4	10062.1	9588.3	9355.2	9707.4	11141.9	14199.8	14803.2	14210.2
37.5°	12089.5	12009.2	12066.2	11253.2	10642.1	10302.9	10582.5	12035.1	15403.8	16294.5	15541.0
40°	13342.7	13280.6	13288.4	12511.6	11799.5	11418.9	11644.1	13156.3	16784.0	18068.2	17141.3
42.5°	14704.8	14658.1	14502.7	13814.0	13013.9	12659.2	12866.3	14451.0	18265.0	20087.9	18896.8
45°	16229.8	16201.4	16056.3	15266.6	14350.0	13951.3	14230.9	15880.2	19753.9	21988.5	20660.1
47.5°	17547.8	17571.1	17552.9	16887.5	15937.2	15352.0	15686.1	17371.7	21139.2	23775.1	22350.9
50°	18182.2	18303.8	18482.5	18275.3	17685.0	17089.5	17154.2	18811.4	22459.7	25450.3	23971.9
52.5°	17850.8	18081.2	18568.0	18899.4	19127.2	19003.0	18829.5	20240.7	23702.6	26962.5	25504.8
55°	16615.7	16939.3	17747.2	18547.3	19709.8	20613.6	20841.4	21825.3	24914.4	28293.5	26954.7
57.5°	14365.5	14891.1	15616.2	17234.5	19192.0	21392.9	23187.3	24023.6	26198.7	29715.0	28472.1
60°	10507.5	11211.8	12112.8	14520.9	17379.5	20976.0	25183.6	27400.1	28024.1	31556.0	30447.7
62.5°	6724.4	7159.4	7988.0	10256.3	13542.1	18839.8	25794.7	31620.7	31118.4	34575.1	33409.9
65°	4603.8	4883.4	5642.1	6916.1	8754.4	14023.7	24158.3	34784.8	36032.8	39360.2	38474.6
67.5°	3345.4	3557.7	4205.1	5321.1	5704.2	8298.7	18746.6	34639.9	40810.2	44290.2	42912.8
70°	2439.1	2589.4	3133.1	4205.1	4388.8	4616.7	11356.7	29445.7	40706.6	45600.4	43951.0
72.5°	1807.4	1910.9	2276.0	3262.6	3552.5	3117.5	5621.4	21400.7	34979.0	41245.2	39922.0
75°	1307.6	1385.3	1654.6	2496.1	2843.0	2374.4	2804.2	12506.4	24399.1	29013.2	29246.3
77.5°	999.5	1059.0	1235.1	1828.1	2276.0	1781.4	1740.0	5753.4	11569.1	11626.1	12278.6
80°	802.7	841.5	937.4	1286.9	1745.2	1333.5	1134.2	2322.6	3656.1	3094.3	3247.0
82.5°	590.4	655.1	792.3	903.6	1248.0	919.2	691.4	1173.0	1390.4	1196.3	1206.6
85°	336.6	380.6	479.0	647.3	797.6	561.9	396.2	520.5	647.3	530.8	473.9
87.5°	119.1	155.4	168.3	253.8	347.0	233.1	152.7	150.2	212.3	158.0	132.0
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°	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3	7154.3
2.5°	7206.1	7193.1	7141.4	7071.4	6998.9	6929.0	6905.7	6856.5	6822.8	6804.7	6825.5
5°	7351.1	7309.7	7187.9	7032.6	6869.4	6693.4	6569.1	6455.1	6372.3	6294.6	6325.7
7.5°	7558.2	7485.7	7276.0	7004.1	6714.1	6421.5	6204.0	6038.3	5927.0	5854.4	5870.0
10°	7799.0	7687.7	7366.6	6960.1	6512.1	6092.7	5836.3	5693.9	5624.0	5585.1	5595.5
12.5°	8076.1	7918.1	7459.8	6859.1	6204.0	5724.9	5548.9	5507.4	5510.1	5512.7	5517.8
15°	8417.8	8197.7	7534.9	6639.0	5802.6	5442.7	5411.7	5479.0	5548.9	5582.6	5580.0
17.5°	8803.6	8492.9	7547.9	6276.5	5409.0	5261.5	5359.9	5504.9	5611.1	5657.7	5668.0
20°	9217.9	8793.3	7454.6	5763.8	5085.4	5113.9	5289.9	5476.4	5592.9	5652.5	5668.0
22.5°	9691.8	9114.4	7232.0	5225.2	4821.3	4953.3	5160.5	5341.8	5463.5	5523.0	5538.6
25°	10233.0	9474.3	6882.4	4772.1	4593.4	4772.1	4979.2	5129.4	5227.8	5282.2	5297.7
27.5°	10833.7	9849.7	6416.3	4412.2	4394.1	4585.6	4756.6	4873.1	4924.9	4966.3	4981.8
30°	11437.1	10191.6	5851.8	4140.3	4220.5	4401.9	4523.5	4575.3	4590.9	4598.7	4616.7
32.5°	12089.5	10486.8	5258.9	3915.1	4054.9	4223.2	4295.7	4318.9	4246.5	4197.3	4212.9
35°	12879.2	10802.6	4678.9	3736.3	3891.7	4036.8	4060.0	4039.3	3953.8	3852.9	3858.1
37.5°	13855.4	11196.2	4215.4	3609.5	3739.0	3834.7	3806.3	3801.1	3808.9	3689.8	3697.6
40°	15051.7	11708.9	3876.2	3511.1	3614.7	3635.4	3555.1	3599.2	3638.0	3456.7	3461.9
42.5°	16380.0	12327.8	3661.3	3443.8	3511.1	3461.9	3337.6	3386.8	3381.7	3143.5	3140.8
45°	17734.2	13001.0	3586.2	3394.6	3415.3	3316.9	3179.7	3192.7	3083.9	2869.0	2876.8
47.5°	19080.7	13723.4	3632.8	3353.2	3296.2	3184.9	3078.7	3021.7	2861.2	2700.7	2700.7
50°	20401.2	14482.0	3803.7	3270.3	3133.1	3068.3	2990.6	2889.7	2718.8	2581.6	2571.2
52.5°	21626.0	15245.8	3995.3	3133.1	2928.5	2967.4	2918.2	2801.6	2633.3	2493.5	2496.1
55°	22786.0	16009.8	4070.4	2944.0	2737.0	2879.3	2850.8	2635.9	2434.0	2320.0	2309.6
57.5°	24049.6	16928.9	3987.6	2703.2	2581.6	2778.4	2669.6	2431.4	2314.9	2229.4	2221.6
60°	25800.0	18371.2	3808.9	2405.5	2434.0	2628.2	2441.8	2343.4	2216.5	2120.6	2115.5
62.5°	28707.7	21061.5	3521.5	2110.3	2260.4	2405.5	2333.0	2234.6	2105.1	2011.9	2011.9
65°	33006.0	24800.5	2980.3	1879.8	2066.3	2188.0	2216.5	2118.1	1983.4	1885.0	1890.2
67.5°	36631.0	27146.4	2255.3	1688.3	1866.9	2011.9	2092.1	1996.4	1853.9	1758.2	1760.7
70°	36431.7	25442.7	1721.9	1499.2	1690.8	1838.4	1942.0	1866.9	1714.1	1623.5	1631.3
72.5°	32358.6	21284.1	1393.1	1307.6	1512.2	1657.1	1781.4	1724.5	1569.2	1481.1	1481.1
75°	23772.5	15108.6	1113.4	1113.4	1289.4	1468.1	1605.4	1569.2	1426.7	1364.6	1346.4
77.5°	10020.6	6338.6	872.6	924.3	1071.9	1261.0	1431.9	1444.8	1320.5	1398.2	1268.7
80°	2664.4	1747.8	665.4	727.6	841.5	1040.9	1245.5	1240.2	1105.7	1033.1	960.6
82.5°	1015.1	688.8	473.9	512.7	608.4	797.6	986.6	1017.6	882.9	763.8	763.8
85°	391.0	295.2	292.6	308.1	354.8	528.2	745.7	771.6	665.4	564.5	582.6
87.5°	101.0	88.0	108.8	103.5	163.1	282.3	427.2	442.8	406.5	235.6	336.6
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)