

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: P970403

Luminaire Tested: **NAV-SB6B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38014.2 lumens
Efficiency: N/A
Efficacy: 172.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

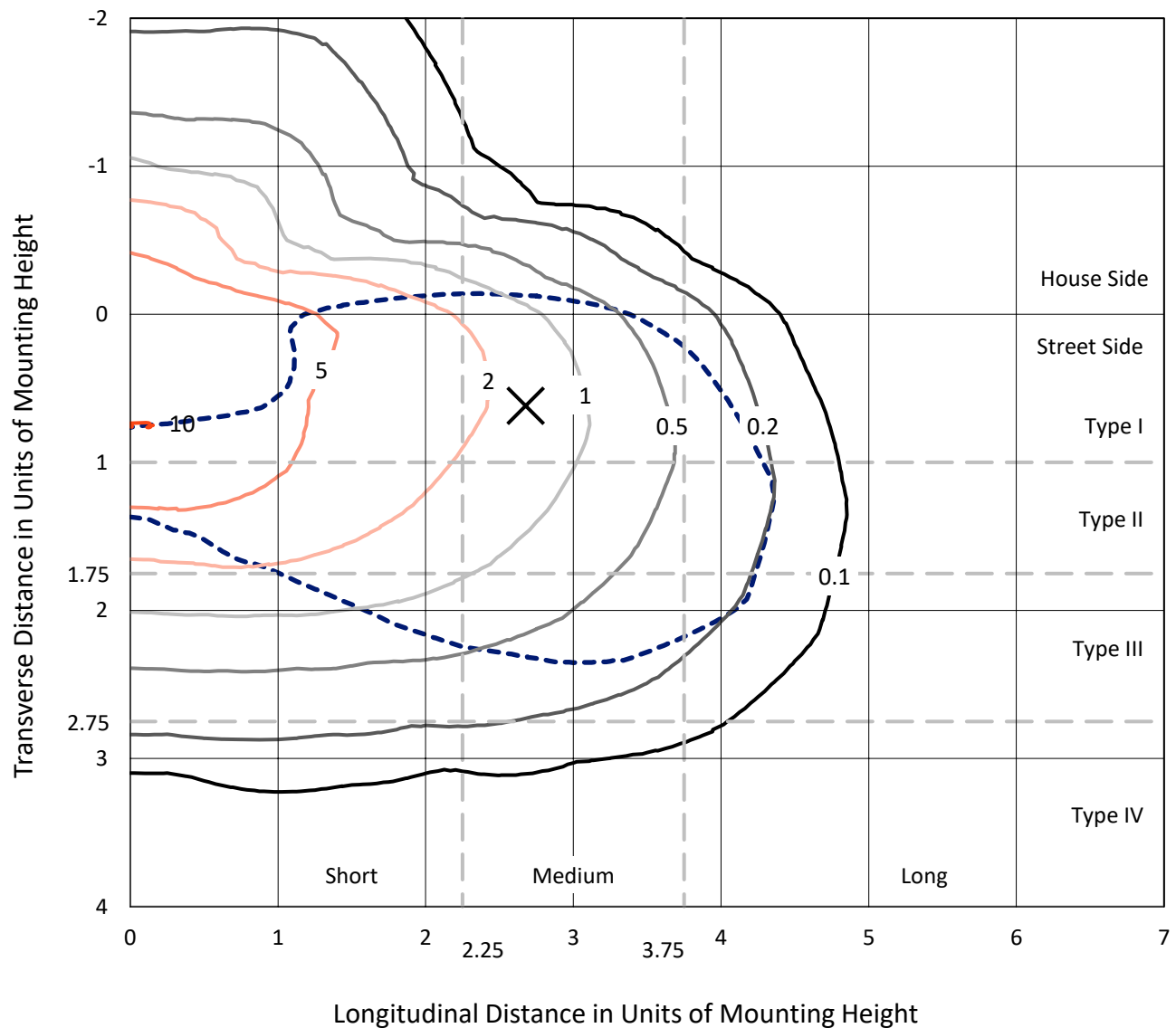


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Iso-Footcandle Lines of Horizontal Illumination

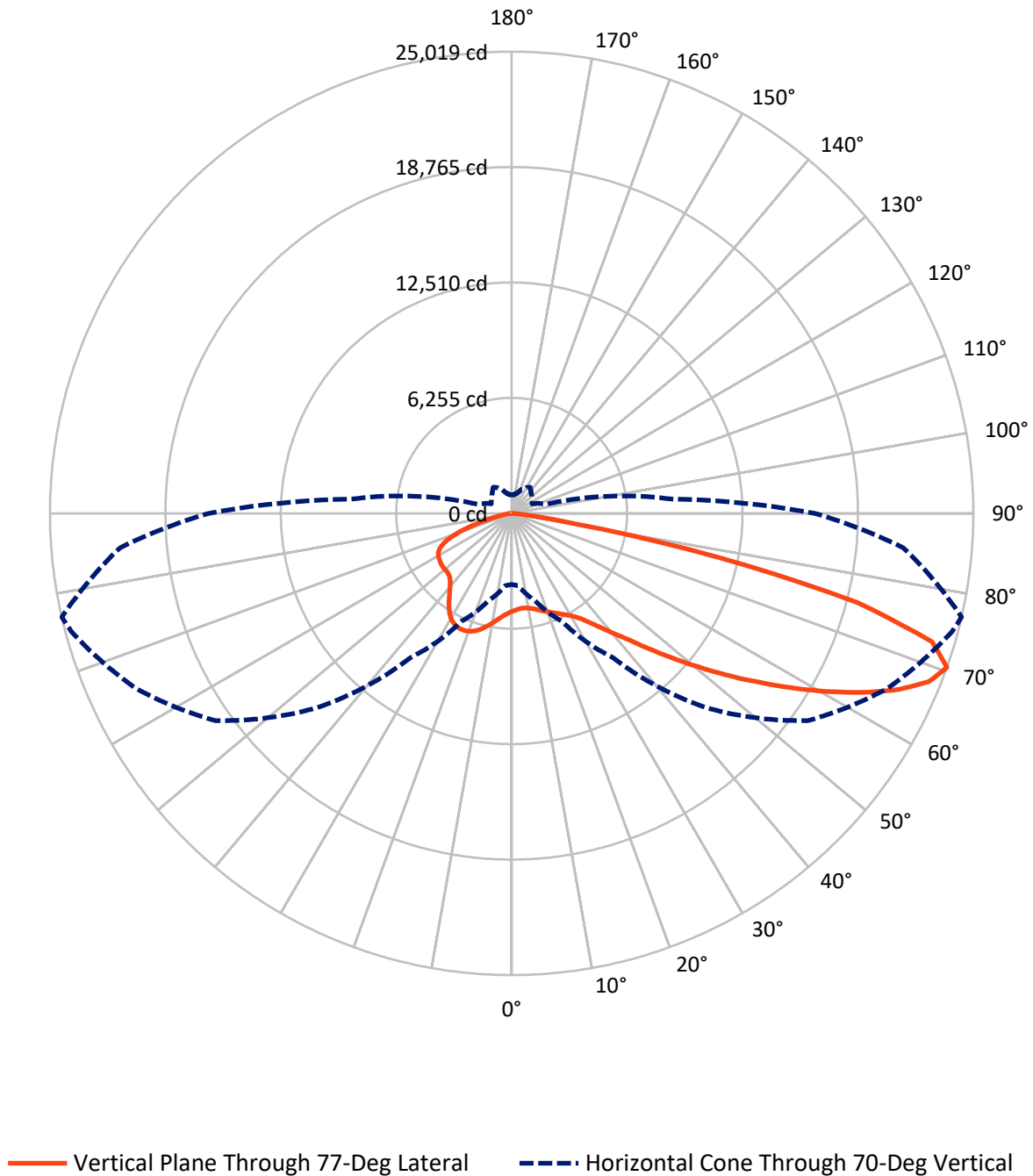
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8324.5	0.0	8324.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	29689.7	0.0	29689.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	38014.2	0.0	38014.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.8	1.3
10°-20°	1459.8	3.8
20°-30°	2496.4	6.6
30°-40°	4014.5	10.6
40°-50°	6267.7	16.5
50°-60°	8372.1	22.0
60°-70°	8923.4	23.5
70°-80°	5493.2	14.5
80°-90°	481.4	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°	38014.2	100.0
0°-180°	38014.2	100.0

Coefficient of Utilization



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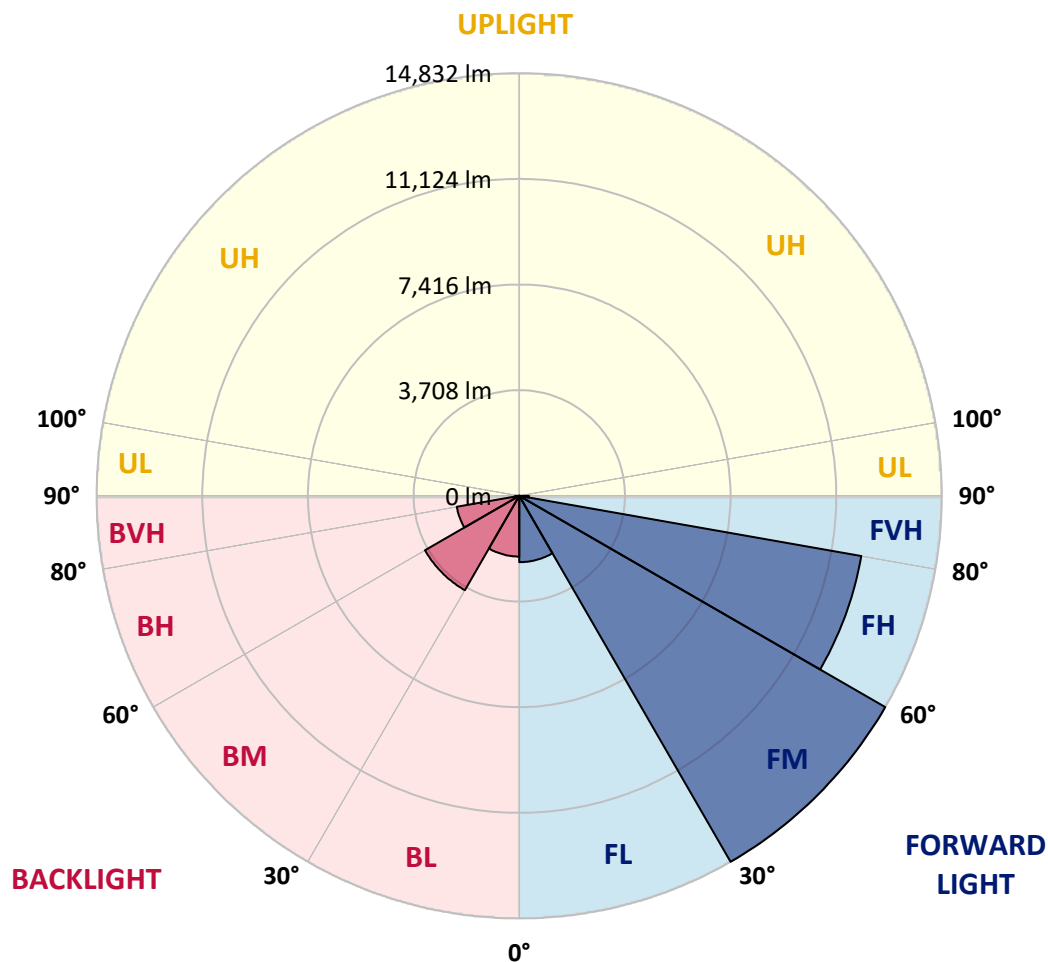
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2329.0	6.1			
FM	(30°-60°)	14832.3	39.0			
FH	(60°-80°)	12191.8	32.1			G5
FVH	(80°-90°)	336.6	0.9			G3/500
BL	(0°-30°)	2133.0	5.6	B3/2500		
BM	(30°-60°)	3822.0	10.1	B3/5000		
BH	(60°-80°)	2224.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	144.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3
2.5°	4888.6	4886.7	4912.0	4919.8	4966.5	4999.6	5061.9	5128.1	5213.8	5223.5	5276.1
5°	4606.3	4606.3	4635.6	4666.7	4727.1	4793.2	4888.6	5003.5	5151.4	5174.8	5305.3
7.5°	4366.9	4382.5	4407.7	4468.1	4538.2	4633.6	4779.6	4943.2	5137.8	5174.8	5385.0
10°	4174.1	4191.6	4222.8	4271.5	4376.6	4509.0	4699.8	4910.1	5170.9	5229.3	5501.9
12.5°	4113.7	4131.3	4148.8	4185.8	4283.2	4438.9	4666.7	4925.6	5250.8	5309.2	5661.6
15°	4254.0	4275.4	4261.7	4252.0	4302.6	4444.7	4682.3	4982.1	5350.1	5433.7	5858.2
17.5°	4577.1	4584.9	4553.8	4462.2	4454.4	4530.4	4756.2	5059.9	5474.6	5566.2	6056.7
20°	5098.9	5085.2	5021.1	4839.9	4736.7	4721.3	4882.8	5176.8	5603.2	5700.5	6271.0
22.5°	5807.5	5792.0	5663.5	5377.4	5147.5	4995.7	5065.8	5328.7	5747.2	5856.2	6479.2
25°	6691.4	6670.1	6481.2	6091.8	5735.5	5359.8	5315.0	5529.2	5924.4	6025.7	6697.2
27.5°	7723.3	7705.7	7501.4	6987.4	6473.4	5858.2	5624.6	5764.7	6109.3	6224.2	6942.6
30°	8833.0	8883.7	8521.5	7968.7	7318.4	6508.4	6041.1	6054.8	6348.8	6452.0	7240.5
32.5°	10137.5	10225.1	9789.0	9088.1	8200.3	7215.2	6566.9	6459.8	6697.2	6782.9	7616.3
35°	11430.2	11529.5	11167.4	10392.5	9370.3	8048.4	7115.9	6925.1	7160.6	7254.1	8114.6
37.5°	12547.7	12680.1	12493.2	11819.6	10622.2	9053.0	7832.3	7472.1	7731.1	7847.9	8784.4
40°	13429.7	13632.1	13618.5	13198.0	12098.0	10271.8	8741.5	8147.7	8439.7	8566.3	9596.3
42.5°	14146.1	14321.3	14473.2	14451.8	13637.9	11656.0	9810.4	9025.7	9247.8	9393.7	10509.3
45°	14640.6	14827.5	15154.6	15506.9	15119.6	13137.6	11034.9	10067.3	10269.9	10489.8	11597.6
47.5°	15082.6	15294.7	15719.2	16277.9	16377.2	14625.0	12376.4	11280.2	11465.2	11693.0	12689.8
50°	15121.5	15304.5	15962.5	16755.0	17270.8	16054.1	13817.1	12641.1	12814.4	13057.8	13859.9
52.5°	14181.2	14469.3	15617.9	16741.3	17681.7	17249.4	15248.0	14056.5	14251.2	14543.2	15070.9
55°	11007.7	11430.2	14607.5	16219.5	17535.6	18022.4	16608.9	15561.4	15810.7	16116.4	16289.6
57.5°	9481.4	9666.3	11595.6	15269.4	16869.8	18222.9	17757.6	17082.0	17483.0	17817.9	17578.4
60°	8521.5	8675.3	9816.2	13791.8	15993.7	17905.5	18645.4	18499.3	19192.4	19591.5	18896.5
62.5°	7493.6	7639.6	8677.2	11515.9	14872.2	17378.0	19206.0	19807.6	20944.6	21380.7	20138.6
65°	6473.4	6598.0	7592.9	9676.0	13447.2	16850.3	19496.1	20938.8	22566.4	23018.0	21170.5
67.5°	5336.5	5439.6	6379.9	8163.3	11714.4	16128.1	19640.2	21828.5	23977.9	24365.3	21680.6
70°	3850.9	3930.8	4902.3	6455.9	9539.8	14885.9	19581.8	22459.3	24709.9	25019.4	21295.1
72.5°	1820.3	1892.4	3033.3	4191.6	6738.1	12467.9	18400.1	21959.0	23966.2	23812.4	18935.4
75°	971.5	1033.8	1742.5	2299.3	3558.9	8546.9	15057.2	18916.0	20125.0	19377.4	13994.2
77.5°	658.0	706.7	1078.6	1380.4	1625.6	4057.4	9677.9	13096.7	12600.2	11365.9	7008.8
80°	521.7	572.4	883.9	934.5	786.6	1466.1	3998.9	6062.6	4355.2	3483.0	1993.6
82.5°	401.1	457.6	743.7	677.5	428.3	601.6	1164.2	1917.7	1115.6	848.8	482.9
85°	245.3	305.7	584.0	432.2	241.4	274.5	395.2	533.4	340.7	284.2	173.2
87.5°	124.6	175.2	295.9	157.7	109.1	64.3	105.2	105.2	89.6	77.9	44.8
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°	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3	5303.3
2.5°	5322.8	5361.8	5427.9	5490.2	5538.9	5585.6	5632.4	5657.7	5665.5	5696.6	5714.1
5°	5385.0	5457.1	5585.6	5706.4	5782.2	5829.0	5862.1	5881.6	5885.4	5895.2	5910.8
7.5°	5499.9	5614.8	5793.9	5914.7	5971.1	5967.2	5953.6	5904.9	5885.4	5867.9	5871.8
10°	5661.6	5813.4	6033.5	6117.1	6082.0	5988.7	5867.9	5725.8	5659.6	5595.4	5575.9
12.5°	5862.1	6054.8	6271.0	6267.1	6093.7	5854.3	5574.0	5355.9	5217.7	5118.3	5095.0
15°	6105.4	6327.4	6492.9	6360.5	5980.9	5550.6	5139.8	4855.5	4731.0	4621.9	4610.2
17.5°	6356.6	6594.1	6670.1	6331.3	5696.6	5100.8	4635.6	4411.6	4289.0	4230.6	4248.1
20°	6601.9	6837.5	6775.1	6163.8	5264.4	4590.8	4176.1	4053.5	4028.1	4041.8	4035.9
22.5°	6860.8	7071.1	6796.6	5840.7	4713.5	4069.0	3841.2	3845.1	3901.6	3942.5	3952.2
25°	7125.6	7267.8	6740.1	5373.5	4121.5	3685.5	3629.0	3691.3	3802.2	3882.1	3903.5
27.5°	7380.6	7442.9	6617.5	4795.2	3613.4	3411.0	3420.7	3549.2	3716.6	3827.6	3854.8
30°	7668.7	7598.7	6381.9	4144.9	3261.0	3175.3	3257.1	3407.1	3574.5	3673.8	3697.2
32.5°	7994.0	7733.0	6008.1	3543.3	3011.9	2986.5	3120.8	3218.2	3292.2	3321.4	3337.0
35°	8398.8	7921.9	5529.2	3120.8	2787.9	2848.3	2976.8	2928.1	2898.9	2883.3	2898.9
37.5°	8924.6	8176.9	4968.5	2846.3	2606.9	2749.0	2801.5	2649.7	2534.8	2478.3	2492.0
40°	9557.3	8550.8	4429.1	2634.1	2492.0	2663.4	2571.8	2388.9	2242.8	2163.0	2168.8
42.5°	10260.1	8942.1	3975.6	2474.5	2427.8	2593.2	2402.5	2184.4	1948.8	1923.5	1948.8
45°	10997.9	9345.0	3666.0	2351.9	2396.7	2532.9	2305.1	1952.7	1785.3	1888.5	1943.0
47.5°	11735.8	9714.9	3479.1	2260.3	2381.1	2464.7	2219.4	1824.2	1705.5	1855.4	1925.5
50°	12557.5	10045.9	3395.4	2194.1	2363.5	2437.6	2091.0	1791.2	1621.8	1721.1	1795.0
52.5°	13373.2	10302.9	3333.1	2127.9	2338.2	2416.1	2028.7	1752.2	1520.5	1526.3	1567.2
55°	14187.0	10470.4	3264.9	2040.4	2281.8	2369.4	2022.8	1709.4	1444.6	1417.4	1436.8
57.5°	15055.3	10565.8	3181.2	1943.0	2184.4	2250.6	2017.0	1676.3	1421.3	1376.5	1382.3
60°	15939.2	10705.9	3072.2	1824.2	2054.0	2108.5	2003.4	1664.6	1407.6	1331.7	1337.5
62.5°	16731.6	10754.6	2941.7	1711.3	1886.5	1968.3	1974.2	1654.9	1370.6	1240.1	1240.1
65°	17251.4	10544.4	2714.0	1582.8	1705.5	1824.2	1917.7	1621.8	1304.4	1173.9	1173.9
67.5°	17229.9	9944.8	2357.7	1417.4	1530.2	1664.6	1835.9	1565.3	1224.6	1092.2	1098.1
70°	16427.9	8761.0	1906.0	1224.6	1337.5	1493.2	1730.8	1481.5	1129.2	1002.7	1014.3
72.5°	14089.6	6856.9	1384.3	998.8	1113.7	1316.1	1594.5	1380.4	1031.9	922.8	917.0
75°	10065.4	4339.6	938.4	767.1	866.3	1115.6	1425.2	1261.6	942.3	926.7	874.1
77.5°	5141.7	2073.5	621.0	560.7	603.5	880.0	1197.3	1127.3	955.9	765.2	681.4
80°	1672.4	765.2	391.3	381.6	401.1	586.0	926.7	924.8	724.3	519.8	459.5
82.5°	533.4	329.0	255.0	245.3	235.5	368.0	646.4	732.1	488.7	329.0	327.1
85°	212.2	196.6	150.0	138.3	99.3	173.2	338.8	486.8	364.1	237.5	243.3
87.5°	77.9	77.9	40.9	29.2	21.4	58.4	91.5	146.1	208.3	122.7	120.7
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)