

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: P968819

Luminaire Tested: **NAV-SB5C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968819
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-SB5C-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 40648.4 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

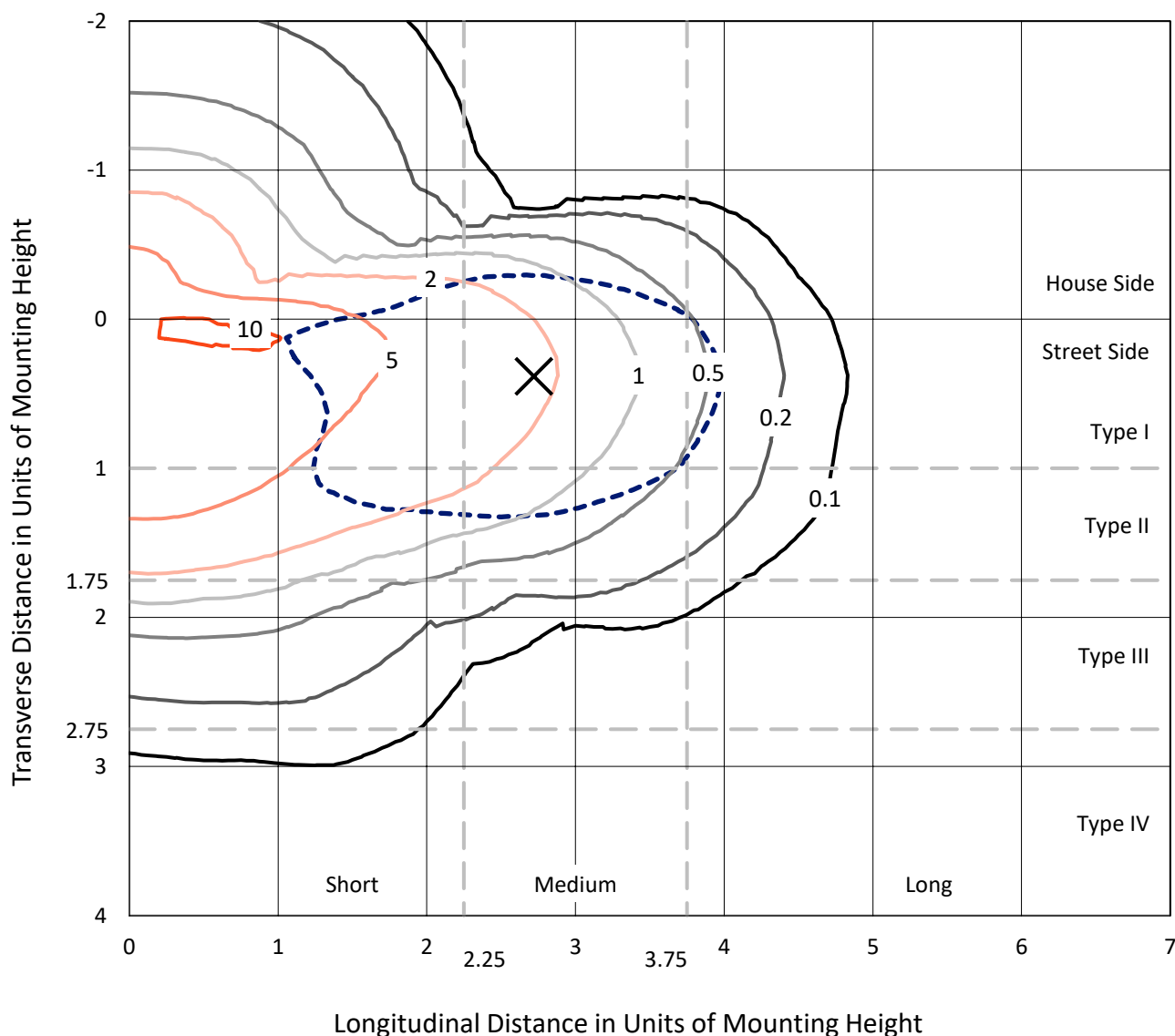
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

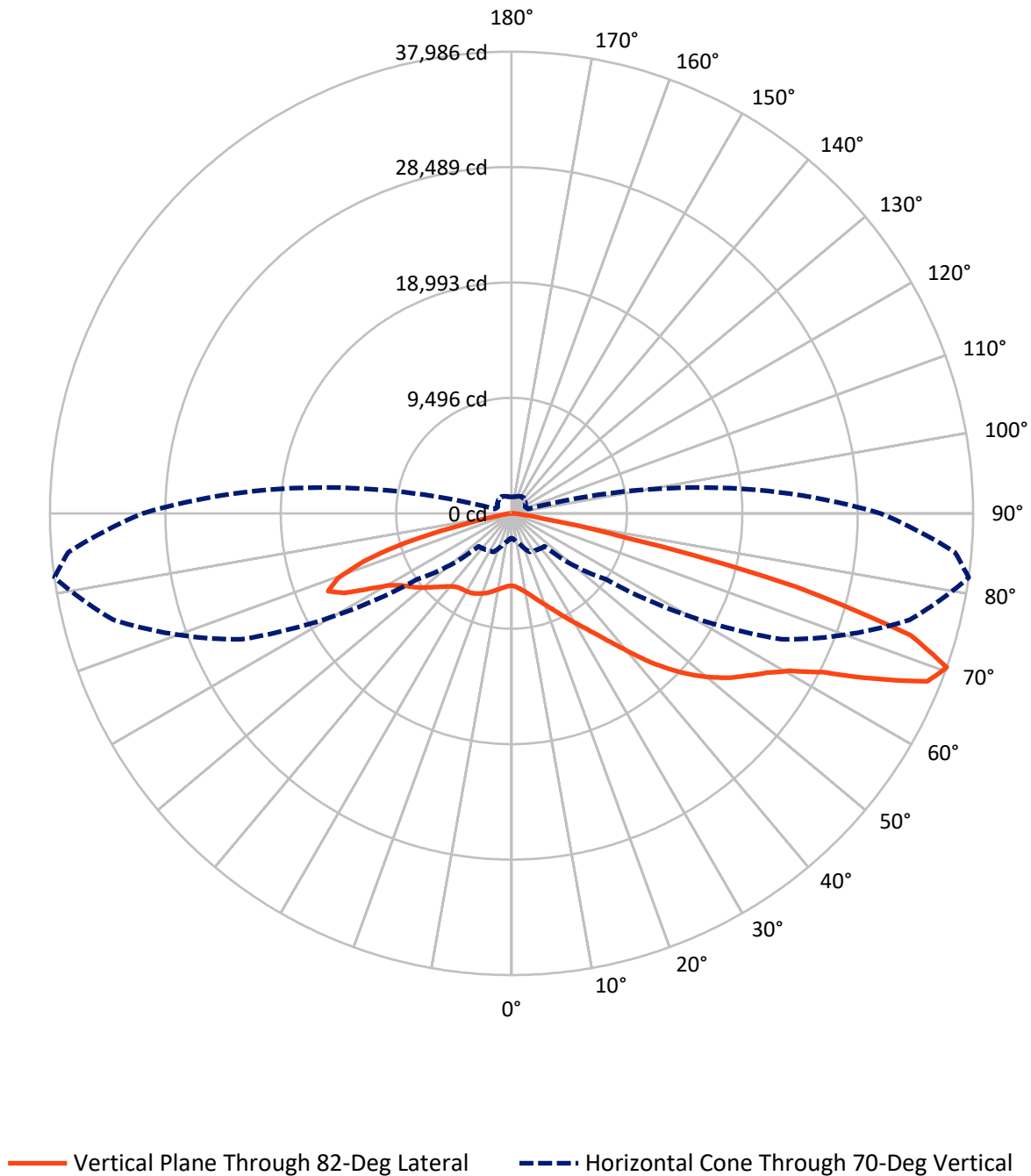
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	10020.8	0.0	10020.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	30627.6	0.0	30627.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	40648.4	0.0	40648.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.7	1.4
10°-20°	1616.6	4.0
20°-30°	2704.5	6.7
30°-40°	4225.1	10.4
40°-50°	6728.9	16.6
50°-60°	9364.1	23.0
60°-70°	9795.3	24.1
70°-80°	5119.6	12.6
80°-90°	531.6	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°	40648.4	100.0
0°-180°	40648.4	100.0

Coefficient of Utilization



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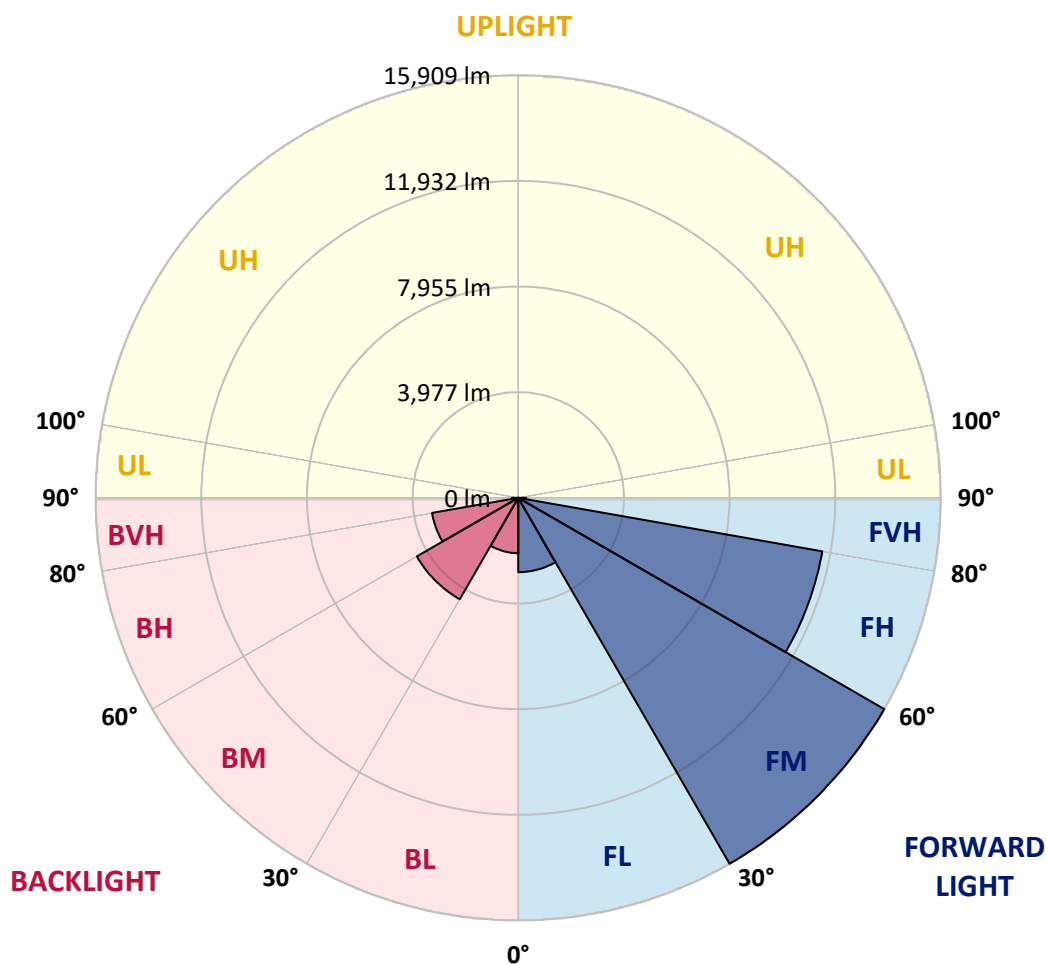
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2799.1	6.9			
FM	(30°-60°)	15909.4	39.1			
FH	(60°-80°)	11621.5	28.6			G4/12000
FVH	(80°-90°)	297.6	0.7			G3/500
BL	(0°-30°)	2084.7	5.1	B3/2500		
BM	(30°-60°)	4408.8	10.8	B3/5000		
BH	(60°-80°)	3293.4	8.1	B4/5000		G4/5000
BVH	(80°-90°)	234.0	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6
2.5°	6101.9	6136.5	6125.6	6114.8	6114.8	6099.8	6097.6	6076.0	6058.8	6030.8	6024.2
5°	6179.6	6216.2	6211.9	6220.5	6248.6	6255.1	6261.5	6248.6	6214.1	6179.6	6164.5
7.5°	6110.5	6151.5	6164.5	6216.2	6302.5	6380.2	6438.4	6462.1	6429.8	6380.2	6356.4
10°	5877.6	5922.9	5968.2	6091.2	6244.3	6427.6	6583.0	6675.6	6669.2	6621.7	6580.8
12.5°	5405.2	5452.7	5549.8	5789.2	6069.5	6393.1	6682.2	6876.2	6943.1	6908.6	6837.5
15°	5027.7	5068.7	5142.1	5388.0	5752.5	6244.3	6718.8	7096.3	7266.6	7247.3	7161.0
17.5°	5017.0	5034.3	5079.6	5196.0	5476.4	6011.3	6680.0	7311.9	7637.7	7635.5	7527.6
20°	5206.8	5213.3	5239.2	5262.9	5422.5	5834.5	6580.8	7491.0	8053.9	8053.9	7937.5
22.5°	5469.9	5465.6	5491.5	5469.9	5547.6	5819.3	6518.2	7648.4	8517.6	8552.2	8405.5
25°	5864.6	5843.1	5836.7	5787.0	5802.1	5959.6	6587.3	7827.4	9067.7	9138.9	8955.5
27.5°	6391.0	6356.4	6332.8	6218.4	6179.6	6248.6	6798.6	8043.2	9680.2	9803.2	9570.2
30°	7076.8	7014.3	6979.8	6781.4	6641.2	6651.9	7117.8	8330.1	10320.8	10519.3	10223.8
32.5°	8012.9	7915.9	7823.1	7497.5	7240.8	7156.7	7529.9	8726.8	11015.4	11332.5	10952.8
35°	9061.2	8983.6	8884.4	8381.8	7987.1	7793.0	8086.3	9281.3	11828.5	12331.1	11837.2
37.5°	10070.6	10003.8	10051.3	9373.9	8864.9	8582.4	8815.3	10025.3	12831.5	13573.5	12945.9
40°	11114.6	11062.8	11069.3	10422.2	9829.0	9512.0	9699.7	10959.3	13981.1	15051.0	14278.8
42.5°	12249.2	12210.3	12080.9	11507.2	10840.7	10545.2	10717.7	12037.8	15214.9	16733.3	15741.2
45°	13519.5	13495.9	13375.0	12717.2	11953.7	11621.4	11854.4	13228.3	16455.1	18316.5	17210.1
47.5°	14617.4	14636.9	14621.7	14067.4	13275.8	12788.4	13066.6	14470.7	17609.1	19804.8	18618.5
50°	15145.9	15247.3	15396.1	15223.5	14731.7	14235.7	14289.6	15670.0	18709.1	21200.4	19968.7
52.5°	14869.8	15061.8	15467.2	15743.4	15933.1	15829.6	15685.2	16860.6	19744.5	22460.0	21245.7
55°	13841.0	14110.6	14783.5	15450.0	16418.4	17171.2	17361.0	18180.6	20753.9	23568.6	22453.5
57.5°	11966.6	12404.4	13008.4	14356.5	15987.1	17820.4	19315.2	20011.9	21823.7	24752.8	23717.5
60°	8752.8	9339.5	10090.1	12096.0	14477.2	17473.2	20978.2	22824.5	23344.4	26286.3	25363.2
62.5°	5601.5	5963.9	6654.1	8543.6	11280.6	15693.8	21487.2	26340.2	25921.8	28801.4	27830.7
65°	3835.0	4067.9	4699.9	5761.1	7292.6	11681.8	20124.0	28976.0	30015.7	32787.3	32049.7
67.5°	2786.8	2963.6	3502.8	4432.5	4751.7	6912.9	15616.1	28855.3	33995.3	36894.1	35746.7
70°	2031.9	2156.9	2609.9	3502.8	3656.0	3845.8	9460.2	24528.5	33908.9	37985.5	36611.6
72.5°	1505.5	1591.8	1895.9	2717.7	2959.3	2596.9	4682.7	17826.9	29137.8	34357.6	33255.4
75°	1089.3	1153.9	1378.3	2079.3	2368.3	1977.9	2336.0	10417.9	20324.6	24168.3	24362.4
77.5°	832.6	882.2	1028.9	1522.7	1895.9	1484.0	1449.5	4792.7	9637.2	9684.6	10228.1
80°	668.6	701.0	780.8	1071.9	1453.8	1110.8	944.7	1934.8	3045.6	2577.6	2704.8
82.5°	491.8	545.7	660.0	752.8	1039.7	765.7	575.9	977.1	1158.2	996.5	1005.1
85°	280.4	317.0	399.0	539.3	664.3	468.0	330.0	433.6	539.3	442.2	394.7
87.5°	99.2	129.5	140.2	211.4	289.0	194.1	127.3	125.2	176.9	131.6	110.0
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°	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6	5959.6
2.5°	6002.7	5991.9	5948.8	5890.6	5830.2	5771.9	5752.5	5711.5	5683.5	5668.4	5685.7
5°	6123.5	6089.0	5987.6	5858.2	5722.3	5575.6	5472.1	5377.2	5308.2	5243.5	5269.3
7.5°	6296.1	6235.7	6060.9	5834.5	5592.9	5349.2	5167.9	5030.0	4937.2	4876.7	4889.8
10°	6496.7	6403.9	6136.5	5797.8	5424.6	5075.2	4861.7	4743.1	4684.9	4652.5	4661.1
12.5°	6727.4	6595.9	6214.1	5713.7	5167.9	4768.9	4622.2	4587.8	4590.0	4592.1	4596.4
15°	7012.1	6828.8	6276.6	5530.4	4833.7	4533.9	4508.0	4564.0	4622.2	4650.3	4648.2
17.5°	7333.6	7074.7	6287.5	5228.4	4505.8	4382.9	4464.8	4585.6	4674.0	4712.8	4721.5
20°	7678.6	7324.9	6209.8	4801.3	4236.2	4259.9	4406.6	4561.9	4658.9	4708.5	4721.5
22.5°	8073.3	7592.4	6024.2	4352.7	4016.2	4126.1	4298.7	4449.7	4551.1	4600.7	4613.6
25°	8524.1	7892.2	5733.1	3975.2	3826.3	3975.2	4147.8	4272.8	4354.8	4400.1	4413.0
27.5°	9024.5	8204.9	5344.9	3675.3	3660.3	3819.9	3962.2	4059.3	4102.5	4137.0	4149.9
30°	9527.1	8489.7	4874.6	3448.9	3515.7	3666.7	3768.1	3811.3	3824.2	3830.7	3845.8
32.5°	10070.6	8735.6	4380.7	3261.2	3377.8	3517.9	3578.4	3597.7	3537.4	3496.4	3509.3
35°	10728.5	8998.7	3897.6	3112.4	3241.9	3362.6	3382.1	3364.8	3293.6	3209.5	3213.8
37.5°	11541.7	9326.5	3511.4	3006.7	3114.6	3194.4	3170.6	3166.3	3172.8	3073.6	3080.1
40°	12538.2	9753.6	3229.0	2924.7	3011.0	3028.4	2961.4	2998.1	3030.5	2879.5	2883.8
42.5°	13644.7	10269.1	3049.9	2868.7	2924.7	2883.8	2780.3	2821.2	2816.9	2618.5	2616.3
45°	14772.7	10829.8	2987.4	2827.8	2845.0	2763.0	2648.7	2659.5	2568.9	2389.9	2396.3
47.5°	15894.4	11431.6	3026.1	2793.2	2745.8	2653.0	2564.5	2517.1	2383.4	2249.7	2249.7
50°	16994.4	12063.6	3168.5	2724.1	2609.9	2555.9	2491.3	2407.1	2264.7	2150.4	2141.8
52.5°	18014.6	12700.0	3328.2	2609.9	2439.5	2471.8	2430.9	2333.8	2193.6	2077.2	2079.3
55°	18980.8	13336.3	3390.7	2452.4	2279.9	2398.5	2374.7	2195.8	2027.6	1932.6	1923.9
57.5°	20033.4	14102.0	3321.6	2251.8	2150.4	2314.3	2223.7	2025.3	1928.3	1857.1	1850.6
60°	21491.6	15303.4	3172.8	2003.8	2027.6	2189.3	2034.0	1952.0	1846.3	1766.5	1762.2
62.5°	23913.8	17544.4	2933.4	1757.9	1883.0	2003.8	1943.4	1861.4	1753.6	1675.9	1675.9
65°	27494.3	20659.0	2482.7	1565.9	1721.2	1822.6	1846.3	1764.3	1652.2	1570.2	1574.5
67.5°	30513.9	22613.1	1878.7	1406.3	1555.1	1675.9	1742.8	1663.0	1544.4	1464.5	1466.7
70°	30347.9	21193.9	1434.4	1248.9	1408.5	1531.5	1617.7	1555.1	1427.9	1352.4	1358.8
72.5°	26955.0	17729.8	1160.4	1089.3	1259.6	1380.5	1484.0	1436.5	1307.1	1233.8	1233.8
75°	19802.7	12585.7	927.5	927.5	1074.1	1222.9	1337.3	1307.1	1188.5	1136.7	1121.6
77.5°	8347.3	5280.2	726.9	770.0	893.0	1050.4	1192.8	1203.6	1100.0	1164.7	1056.9
80°	2219.4	1455.9	554.3	606.1	701.0	867.0	1037.5	1033.2	921.0	860.6	800.2
82.5°	845.5	573.7	394.7	427.1	506.9	664.3	821.7	847.7	735.5	636.3	636.3
85°	325.7	245.9	243.7	256.7	295.5	440.0	621.2	642.8	554.3	470.2	485.3
87.5°	84.2	73.3	90.6	86.3	135.9	235.1	355.9	368.8	338.7	196.3	280.4
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)