

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: P885527

Luminaire Tested: **NAV-SB6D-835-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51637 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

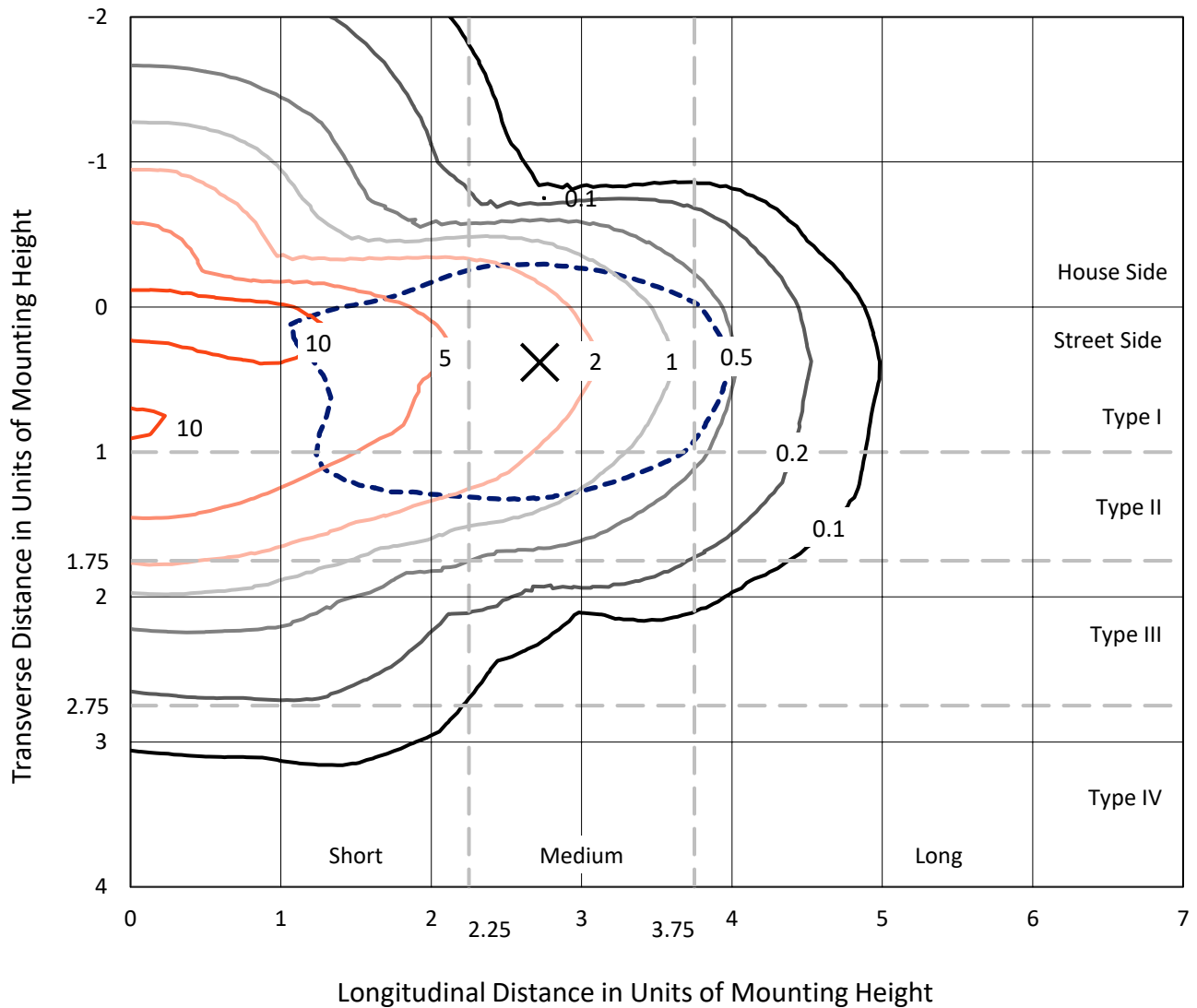
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

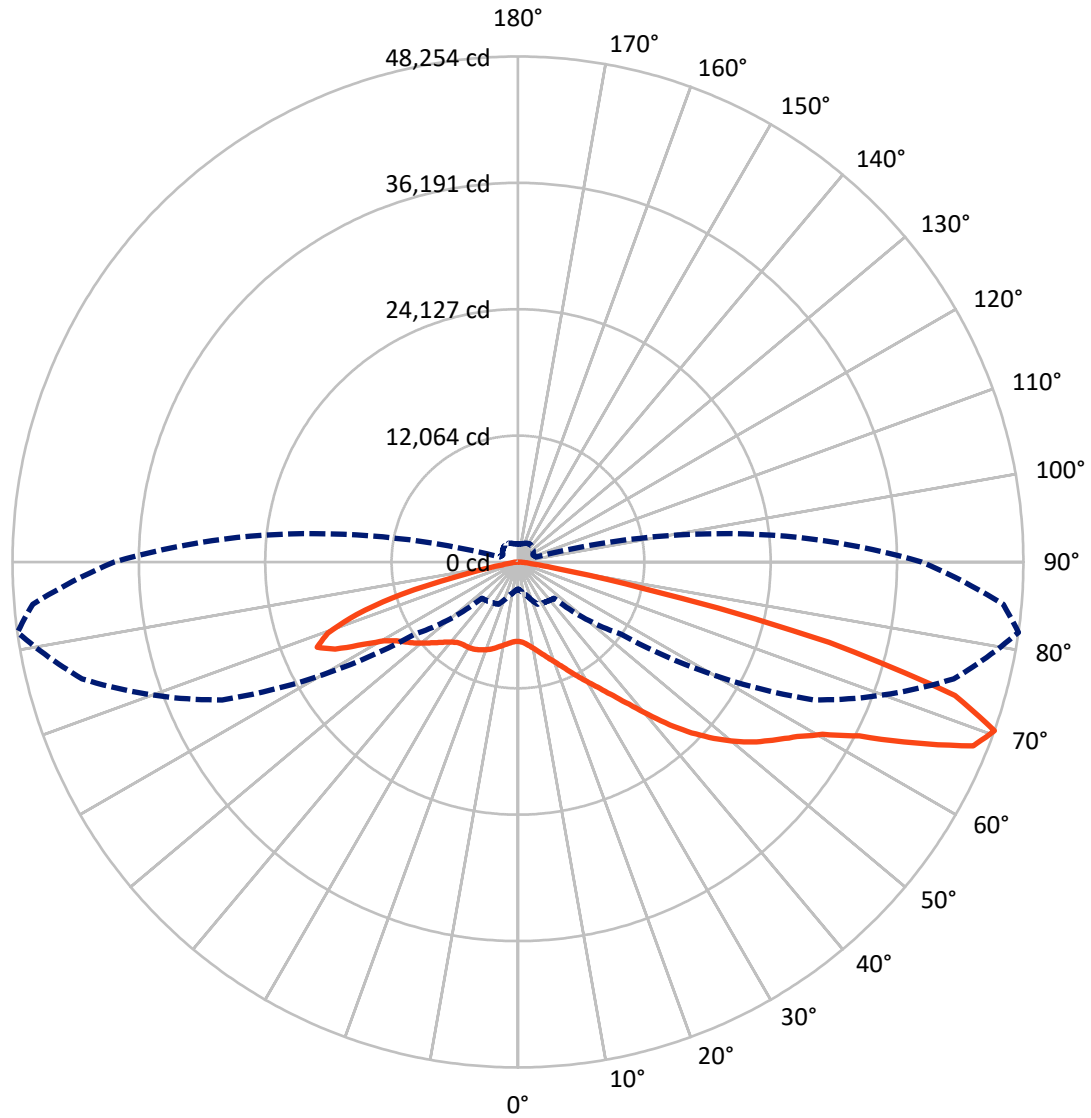
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12729.8	0.0	12729.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	38907.2	0.0	38907.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	51637.0	0.0	51637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.8	1.4
10°-20°	2053.7	4.0
20°-30°	3435.6	6.7
30°-40°	5367.3	10.4
40°-50°	8548.0	16.6
50°-60°	11895.6	23.0
60°-70°	12443.3	24.1
70°-80°	6503.5	12.6
80°-90°	675.3	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°	51637.0	100.0
0°-180°	51637.0	100.0

Coefficient of Utilization



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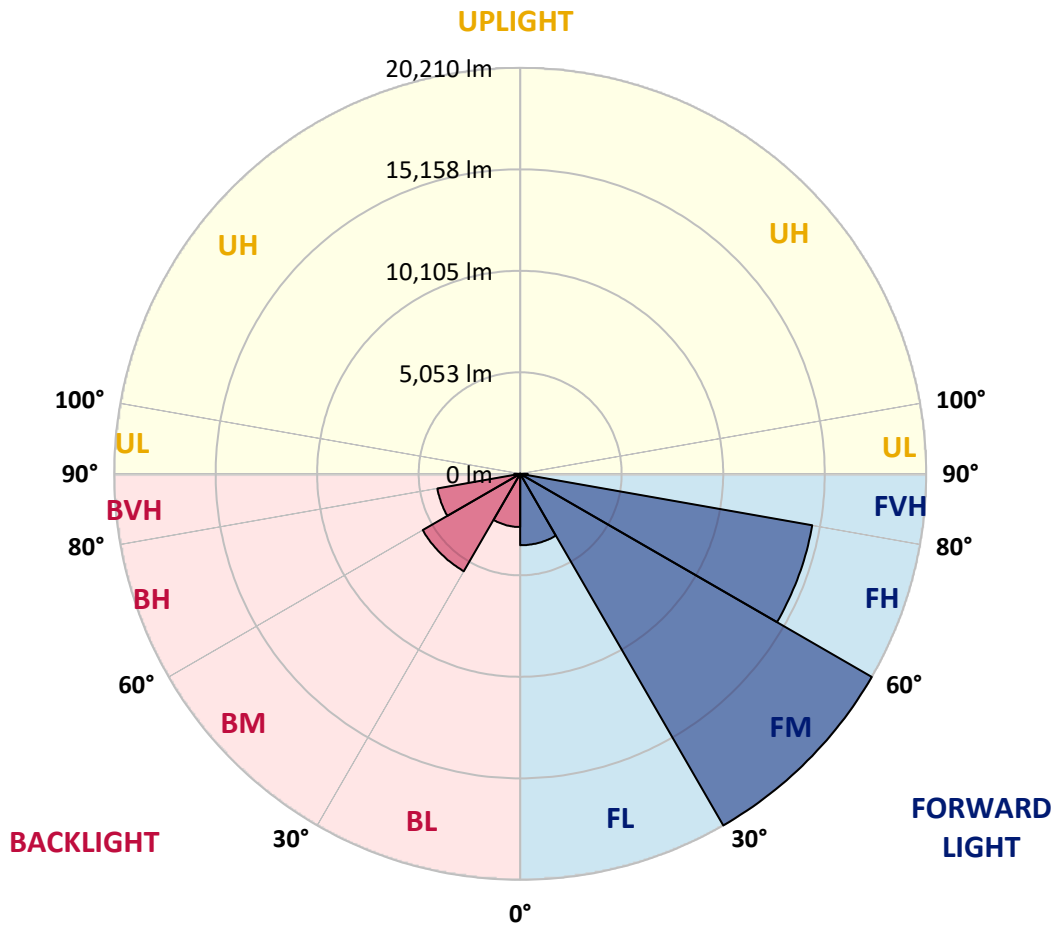
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3555.8	6.9			
FM (30°-60°)	20210.2	39.1			
FH (60°-80°)	14763.2	28.6			G5
FVH (80°-90°)	378.0	0.7			G3/500
BL (0°-30°)	2648.3	5.1	B4/5000		
BM (30°-60°)	5600.6	10.8	B4/8500		
BH (60°-80°)	4183.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	297.3	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°	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6
2.5°	7751.5	7795.3	7781.6	7767.9	7767.9	7748.7	7746.0	7718.6	7696.7	7661.1	7652.8
5°	7850.1	7896.7	7891.2	7902.2	7937.8	7946.0	7954.2	7937.8	7894.0	7850.1	7830.9
7.5°	7762.4	7814.5	7830.9	7896.7	8006.3	8104.9	8178.9	8209.1	8168.0	8104.9	8074.8
10°	7466.5	7524.0	7581.6	7737.8	7932.3	8165.2	8362.5	8480.3	8472.1	8411.8	8359.8
12.5°	6866.4	6926.7	7050.0	7354.2	7710.4	8121.4	8488.5	8735.1	8820.1	8776.2	8685.8
15°	6386.9	6439.0	6532.2	6844.5	7307.6	7932.3	8535.1	9014.6	9231.1	9206.4	9096.8
17.5°	6373.2	6395.2	6452.7	6600.7	6956.9	7636.4	8485.8	9288.6	9702.4	9699.6	9562.6
20°	6614.4	6622.6	6655.5	6685.6	6888.4	7411.7	8359.8	9516.0	10231.2	10231.2	10083.2
22.5°	6948.6	6943.2	6976.0	6948.6	7047.3	7392.5	8280.3	9716.1	10820.3	10864.1	10677.8
25°	7450.1	7422.7	7414.4	7351.4	7370.6	7570.6	8368.0	9943.5	11519.0	11609.4	11376.5
27.5°	8118.6	8074.8	8044.7	7899.4	7850.1	7937.8	8636.5	10217.5	12297.1	12453.3	12157.4
30°	8990.0	8910.5	8866.7	8614.6	8436.5	8450.2	9042.0	10581.9	13110.9	13363.0	12987.6
32.5°	10179.1	10055.8	9938.0	9524.3	9198.2	9091.3	9565.4	11086.1	13993.2	14396.0	13913.7
35°	11510.8	11412.1	11286.1	10647.7	10146.2	9899.6	10272.3	11790.2	15026.2	15664.6	15037.1
37.5°	12793.1	12708.1	12768.4	11908.1	11261.4	10902.5	11198.4	12735.5	16300.3	17242.8	16445.5
40°	14119.2	14053.5	14061.7	13239.7	12486.2	12083.4	12321.8	13922.0	17760.7	19119.7	18138.8
42.5°	15560.5	15511.2	15346.8	14617.9	13771.3	13395.9	13615.1	15292.0	19328.0	21256.9	19996.5
45°	17174.3	17144.2	16990.8	16155.1	15185.1	14763.1	15059.1	16804.4	20903.5	23268.1	21862.5
47.5°	18569.0	18593.7	18574.5	17870.3	16864.7	16245.5	16598.9	18382.7	22369.4	25158.7	23651.7
50°	19240.3	19369.1	19558.1	19338.9	18714.2	18084.0	18152.5	19906.1	23766.8	26931.5	25367.0
52.5°	18889.6	19133.4	19648.6	19999.3	20240.4	20108.9	19925.3	21418.6	25082.0	28531.7	26989.0
55°	17582.6	17925.1	18780.0	19626.6	20856.9	21813.2	22054.3	23095.5	26364.3	29940.0	28523.4
57.5°	15201.5	15757.8	16525.0	18237.5	20308.9	22637.9	24536.7	25421.8	27723.4	31444.3	30129.1
60°	11118.9	11864.2	12817.7	15365.9	18390.9	22196.8	26649.3	28994.7	29655.1	33392.4	32219.7
62.5°	7115.8	7576.1	8452.9	10853.2	14330.2	19936.3	27295.9	33460.9	32929.4	36587.3	35354.3
65°	4871.7	5167.6	5970.5	7318.5	9264.0	14839.9	25564.2	36809.2	38129.9	41650.8	40713.7
67.5°	3540.1	3764.8	4449.8	5630.7	6036.2	8781.7	19837.6	36655.8	43185.2	46867.8	45410.1
70°	2581.1	2740.0	3315.4	4449.8	4644.3	4885.4	12017.7	31159.3	43075.6	48254.2	46508.8
72.5°	1912.5	2022.1	2408.5	3452.4	3759.3	3299.0	5948.5	22646.1	37014.7	43645.5	42245.4
75°	1383.7	1465.9	1750.9	2641.4	3008.5	2512.6	2967.4	13234.2	25819.1	30701.7	30948.3
77.5°	1057.6	1120.7	1307.0	1934.4	2408.5	1885.1	1841.3	6088.3	12242.3	12302.6	12993.1
80°	849.4	890.5	991.9	1361.8	1846.8	1411.1	1200.1	2457.8	3868.9	3274.3	3436.0
82.5°	624.7	693.2	838.4	956.3	1320.7	972.7	731.6	1241.2	1471.4	1265.9	1276.8
85°	356.2	402.8	506.9	685.0	843.9	594.6	419.2	550.7	685.0	561.7	501.4
87.5°	126.0	164.4	178.1	268.5	367.2	246.6	161.7	158.9	224.7	167.1	139.7
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°	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6	7570.6
2.5°	7625.4	7611.7	7556.9	7482.9	7406.2	7332.2	7307.6	7255.5	7219.9	7200.7	7222.6
5°	7778.9	7735.0	7606.2	7441.8	7269.2	7082.9	6951.4	6830.8	6743.1	6660.9	6693.8
7.5°	7998.1	7921.4	7699.4	7411.7	7104.8	6795.2	6565.0	6389.7	6271.9	6195.1	6211.6
10°	8252.9	8135.1	7795.3	7365.1	6891.1	6447.2	6176.0	6025.3	5951.3	5910.2	5921.1
12.5°	8546.1	8378.9	7894.0	7258.3	6565.0	6058.1	5871.8	5828.0	5830.7	5833.5	5838.9
15°	8907.8	8674.9	7973.4	7025.4	6140.3	5759.5	5726.6	5797.8	5871.8	5907.4	5904.7
17.5°	9316.0	8987.2	7987.1	6641.8	5723.9	5567.7	5671.8	5825.2	5937.6	5986.9	5997.9
20°	9754.4	9305.1	7888.5	6099.2	5381.4	5411.5	5597.8	5795.1	5918.4	5981.4	5997.9
22.5°	10255.8	9644.8	7652.8	5529.3	5101.9	5241.6	5460.8	5652.6	5781.4	5844.4	5860.9
25°	10828.5	10025.7	7282.9	5049.8	4860.8	5049.8	5269.0	5427.9	5532.1	5589.6	5606.0
27.5°	11464.2	10423.0	6789.7	4669.0	4649.8	4852.5	5033.4	5156.7	5211.5	5255.3	5271.8
30°	12102.6	10784.7	6192.4	4381.3	4466.2	4658.0	4786.8	4841.6	4858.0	4866.2	4885.4
32.5°	12793.1	11097.0	5564.9	4142.9	4290.8	4468.9	4545.7	4570.3	4493.6	4441.5	4458.0
35°	13628.8	11431.3	4951.2	3953.8	4118.2	4271.7	4296.3	4274.4	4184.0	4077.1	4082.6
37.5°	14661.8	11847.8	4460.7	3819.6	3956.6	4057.9	4027.8	4022.3	4030.5	3904.5	3912.7
40°	15927.6	12390.3	4101.8	3715.4	3825.0	3847.0	3762.0	3808.6	3849.7	3657.9	3663.4
42.5°	17333.3	13045.2	3874.4	3644.2	3715.4	3663.4	3531.9	3583.9	3578.4	3326.4	3323.6
45°	18766.3	13757.6	3794.9	3592.1	3614.1	3509.9	3364.7	3378.4	3263.3	3035.9	3044.1
47.5°	20191.1	14522.0	3844.2	3548.3	3488.0	3370.2	3257.9	3197.6	3027.7	2857.8	2857.8
50°	21588.5	15324.8	4025.1	3460.6	3315.4	3246.9	3164.7	3057.8	2877.0	2731.8	2720.8
52.5°	22884.5	16133.1	4227.8	3315.4	3098.9	3140.0	3088.0	2964.7	2786.6	2638.6	2641.4
55°	24112.0	16941.4	4307.3	3115.4	2896.2	3046.9	3016.7	2789.3	2575.6	2455.0	2444.1
57.5°	25449.2	17914.1	4219.6	2860.6	2731.8	2940.0	2824.9	2572.9	2449.6	2359.1	2350.9
60°	27301.4	19440.3	4030.5	2545.5	2575.6	2781.1	2583.8	2479.7	2345.4	2244.1	2238.6
62.5°	30378.4	22287.2	3726.4	2233.1	2392.0	2545.5	2468.7	2364.6	2227.6	2129.0	2129.0
65°	34926.8	26243.8	3153.7	1989.2	2186.5	2315.3	2345.4	2241.3	2098.8	1994.7	2000.2
67.5°	38762.8	28726.2	2386.5	1786.5	1975.5	2129.0	2213.9	2112.5	1961.8	1860.5	1863.2
70°	38551.9	26923.3	1822.1	1586.5	1789.2	1945.4	2055.0	1975.5	1813.9	1718.0	1726.2
72.5°	34241.8	22522.8	1474.1	1383.7	1600.2	1753.6	1885.1	1824.8	1660.4	1567.3	1567.3
75°	25156.0	15987.9	1178.2	1178.2	1364.5	1553.6	1698.8	1660.4	1509.7	1444.0	1424.8
77.5°	10603.8	6707.5	923.4	978.2	1134.4	1334.4	1515.2	1528.9	1397.4	1479.6	1342.6
80°	2819.5	1849.5	704.2	769.9	890.5	1101.5	1317.9	1312.5	1170.0	1093.3	1016.5
82.5°	1074.1	728.8	501.4	542.5	643.9	843.9	1043.9	1076.8	934.3	808.3	808.3
85°	413.7	312.4	309.6	326.1	375.4	559.0	789.1	816.5	704.2	597.3	616.5
87.5°	106.9	93.2	115.1	109.6	172.6	298.7	452.1	468.5	430.2	249.3	356.2
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)