

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: P885337

Luminaire Tested: **NAV-SB6C-827-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885337
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-SB6C-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36595 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

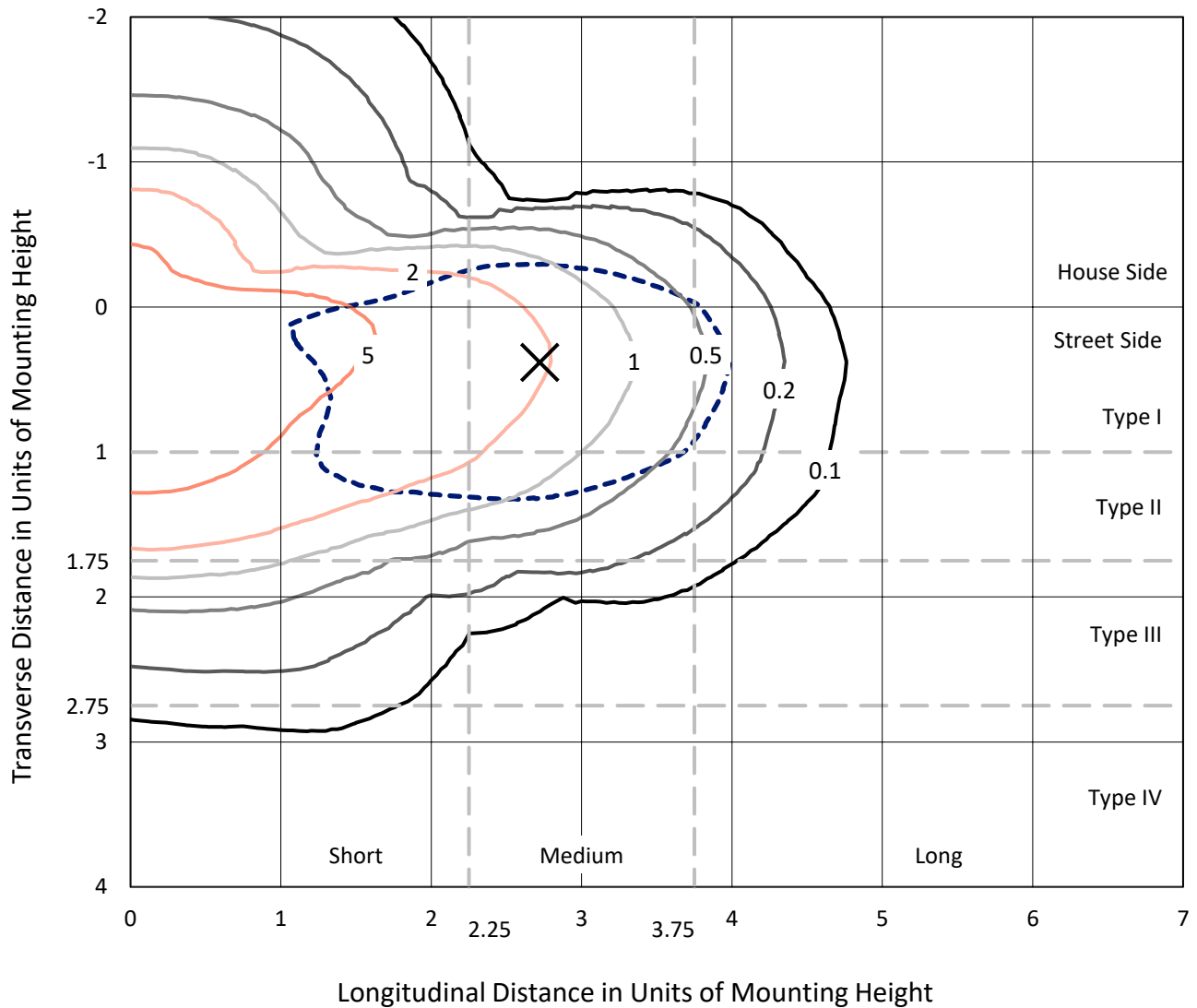
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

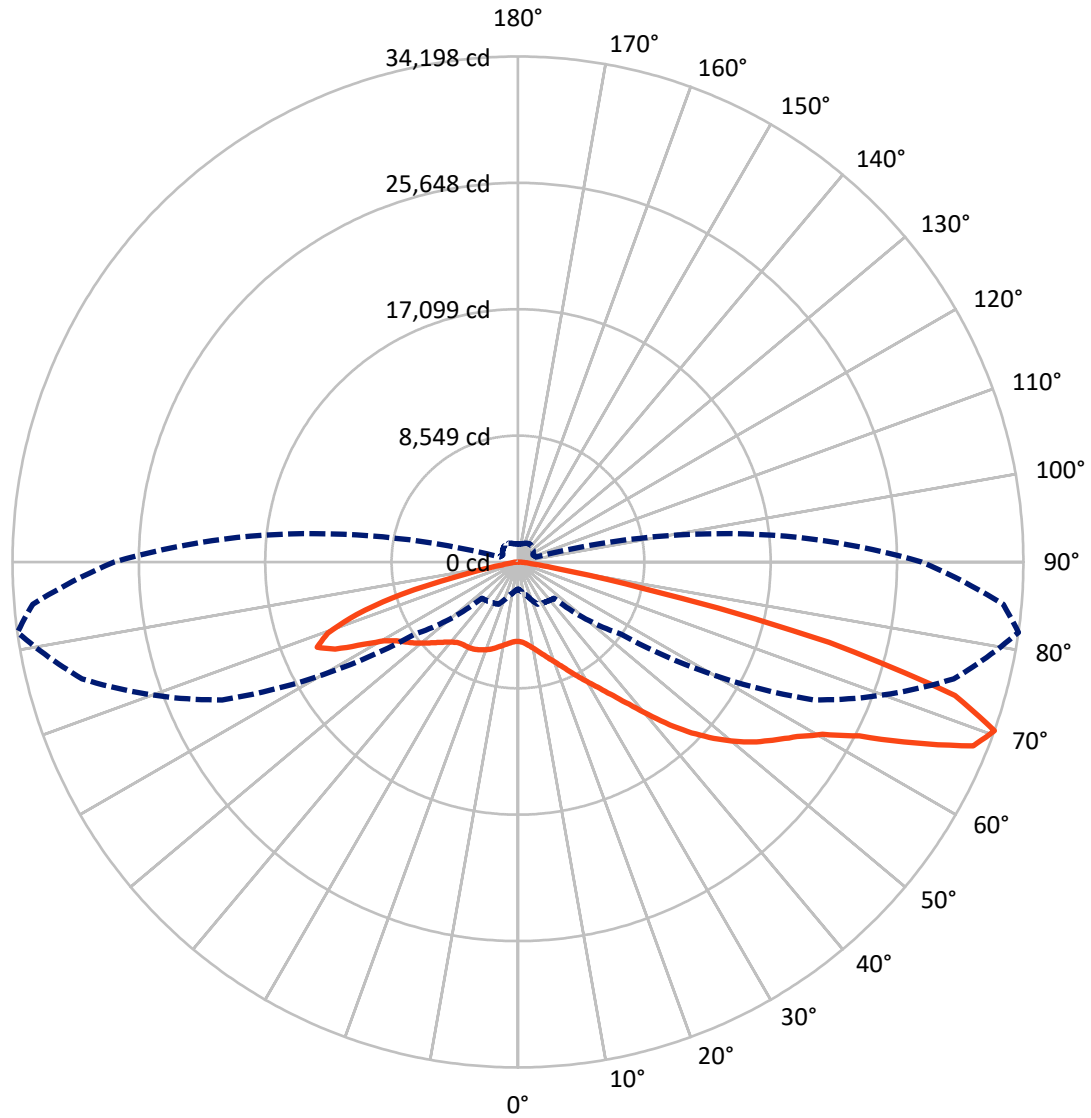
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	9021.6	0.0	9021.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27573.4	0.0	27573.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	36595.0	0.0	36595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	1.4
10°-20°	1455.4	4.0
20°-30°	2434.8	6.7
30°-40°	3803.8	10.4
40°-50°	6057.9	16.6
50°-60°	8430.3	23.0
60°-70°	8818.5	24.1
70°-80°	4609.0	12.6
80°-90°	478.6	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°	36595.0	100.0
0°-180°	36595.0	100.0

Coefficient of Utilization

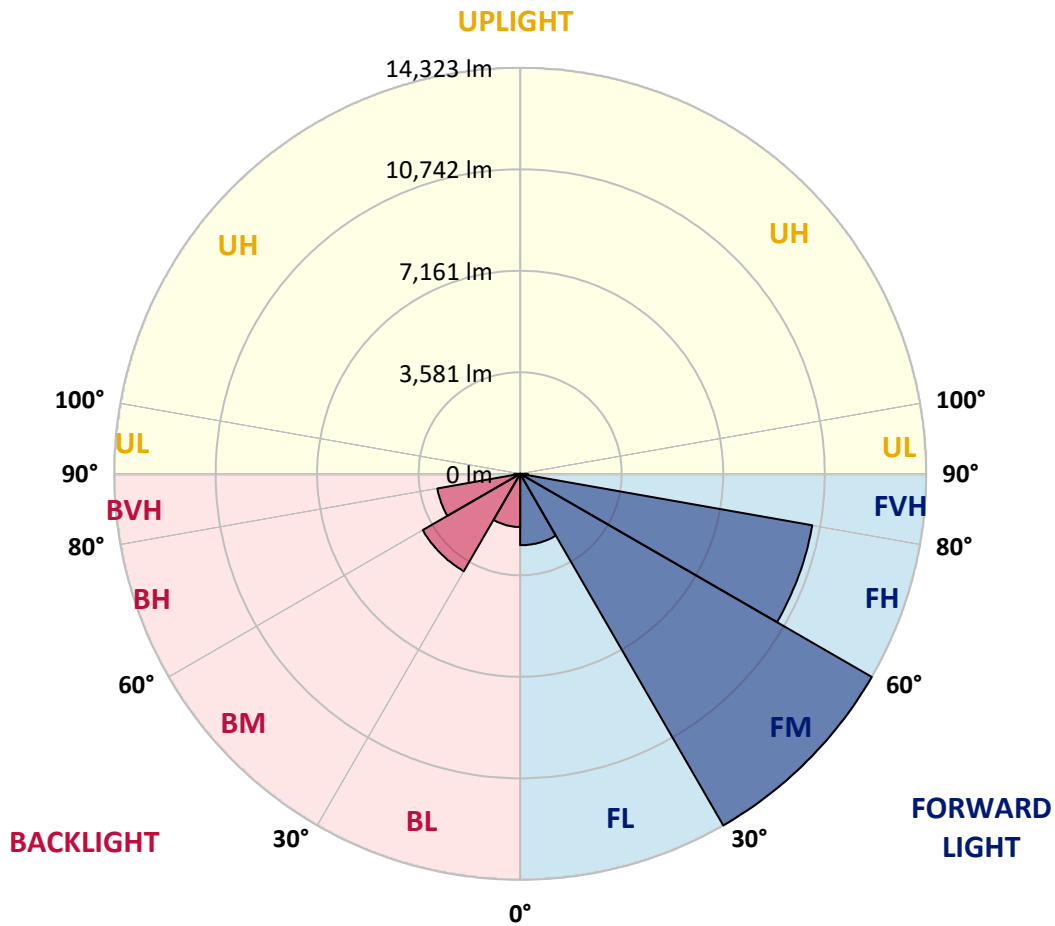


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.0	6.9			
FM (30°-60°)	14322.9	39.1			
FH (60°-80°)	10462.6	28.6			G4/12000
FVH (80°-90°)	267.9	0.7			G3/500
BL (0°-30°)	1876.8	5.1	B3/2500		
BM (30°-60°)	3969.1	10.8	B3/5000		
BH (60°-80°)	2964.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	210.7	0.6			G2/225
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°	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3
2.5°	5493.4	5524.5	5514.8	5505.1	5505.1	5491.5	5489.6	5470.1	5454.6	5429.4	5423.5
5°	5563.4	5596.4	5592.5	5600.2	5625.5	5631.3	5637.1	5625.5	5594.4	5563.4	5549.8
7.5°	5501.2	5538.1	5549.8	5596.4	5674.0	5743.9	5796.4	5817.7	5788.6	5743.9	5722.6
10°	5291.5	5332.3	5373.1	5483.7	5621.6	5786.7	5926.5	6010.0	6004.1	5961.4	5924.5
12.5°	4866.2	4909.0	4996.3	5211.9	5464.3	5755.6	6015.8	6190.6	6250.8	6219.7	6155.6
15°	4526.4	4563.3	4629.3	4850.7	5178.9	5621.6	6048.8	6388.6	6542.0	6524.6	6446.9
17.5°	4516.7	4532.2	4573.0	4677.9	4930.3	5411.9	6013.9	6582.8	6876.0	6874.1	6777.0
20°	4687.6	4693.4	4716.7	4738.1	4881.8	5252.7	5924.5	6744.0	7250.8	7250.8	7145.9
22.5°	4924.5	4920.6	4943.9	4924.5	4994.4	5239.1	5868.2	6885.7	7668.3	7699.4	7567.3
25°	5279.8	5260.4	5254.6	5209.9	5223.5	5365.3	5930.4	7046.9	8163.5	8227.5	8062.5
27.5°	5753.7	5722.6	5701.2	5598.3	5563.4	5625.5	6120.7	7241.1	8714.9	8825.6	8615.9
30°	6371.2	6314.8	6283.8	6105.1	5978.9	5988.6	6408.0	7499.4	9291.7	9470.3	9204.3
32.5°	7213.9	7126.5	7043.0	6749.8	6518.7	6443.0	6778.9	7856.7	9916.9	10202.4	9860.6
35°	8157.6	8087.7	7998.4	7546.0	7190.6	7015.8	7279.9	8355.7	10649.0	11101.5	10656.8
37.5°	9066.4	9006.2	9048.9	8439.2	7980.9	7726.6	7936.3	9025.6	11552.0	12220.0	11654.9
40°	10006.3	9959.7	9965.5	9382.9	8848.9	8563.5	8732.4	9866.5	12587.0	13550.1	12854.9
42.5°	11027.7	10992.7	10876.2	10359.7	9759.7	9493.6	9649.0	10837.4	13697.7	15064.7	14171.5
45°	12171.4	12150.0	12041.3	11449.0	10761.6	10462.6	10672.3	11909.3	14814.2	16490.0	15493.9
47.5°	13159.8	13177.3	13163.7	12664.6	11952.0	11513.1	11763.6	13027.8	15853.1	17829.9	16761.9
50°	13635.6	13726.8	13860.8	13705.5	13262.7	12816.1	12864.6	14107.4	16843.5	19086.3	17977.5
52.5°	13387.0	13559.8	13924.9	14173.4	14344.3	14251.1	14121.0	15179.3	17775.5	20220.3	19127.1
55°	12460.7	12703.5	13309.3	13909.3	14781.2	15458.9	15629.8	16367.7	18684.3	21218.4	20214.5
57.5°	10773.3	11167.5	11711.2	12924.8	14392.9	16043.4	17389.1	18016.3	19647.5	22284.5	21352.4
60°	7880.0	8408.1	9083.9	10889.8	13033.6	15730.8	18886.3	20548.5	21016.5	23665.1	22834.0
62.5°	5042.9	5369.2	5990.6	7691.6	10155.8	14128.8	19344.5	23713.7	23336.9	25929.3	25055.5
65°	3452.6	3662.3	4231.3	5186.6	6565.3	10517.0	18117.3	26086.6	27022.5	29517.8	28853.7
67.5°	2508.8	2668.1	3153.5	3990.5	4277.9	6223.6	14058.9	25977.8	30605.2	33215.1	32182.0
70°	1829.2	1941.8	2349.6	3153.5	3291.4	3462.3	8516.9	22082.5	30527.6	34197.6	32960.7
72.5°	1355.4	1433.1	1706.9	2446.7	2664.2	2338.0	4215.7	16049.2	26232.2	30931.5	29939.2
75°	980.6	1038.9	1240.8	1871.9	2132.1	1780.7	2103.0	9379.1	18297.9	21758.2	21933.0
77.5°	749.5	794.2	926.3	1370.9	1706.9	1336.0	1304.9	4314.8	8676.1	8718.8	9208.2
80°	602.0	631.1	702.9	965.1	1308.8	1000.0	850.5	1741.8	2741.9	2320.5	2435.1
82.5°	442.7	491.3	594.2	677.7	936.0	689.4	518.5	879.7	1042.8	897.1	904.9
85°	252.4	285.4	359.2	485.5	598.1	421.4	297.1	390.3	485.5	398.1	355.4
87.5°	89.3	116.5	126.2	190.3	260.2	174.8	114.6	112.6	159.2	118.5	99.0
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°	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3	5365.3
2.5°	5404.1	5394.4	5355.6	5303.1	5248.8	5196.3	5178.9	5142.0	5116.7	5103.1	5118.7
5°	5512.9	5481.8	5390.5	5274.0	5151.7	5019.6	4926.4	4841.0	4778.9	4720.6	4743.9
7.5°	5668.2	5613.8	5456.6	5252.7	5035.2	4815.7	4652.6	4528.4	4444.9	4390.5	4402.1
10°	5848.8	5765.3	5524.5	5219.6	4883.7	4569.1	4376.9	4270.1	4217.7	4188.5	4196.3
12.5°	6056.6	5938.1	5594.4	5143.9	4652.6	4293.4	4161.3	4130.3	4132.2	4134.2	4138.0
15°	6312.9	6147.8	5650.7	4978.9	4351.6	4081.7	4058.4	4108.9	4161.3	4186.6	4184.7
17.5°	6602.2	6369.2	5660.4	4707.0	4056.5	3945.8	4019.6	4128.3	4208.0	4242.9	4250.7
20°	6912.9	6594.5	5590.5	4322.5	3813.8	3835.1	3967.2	4107.0	4194.4	4239.0	4250.7
22.5°	7268.3	6835.3	5423.5	3918.6	3615.7	3714.7	3870.1	4006.0	4097.3	4141.9	4153.6
25°	7674.1	7105.2	5161.4	3578.8	3444.8	3578.8	3734.1	3846.8	3920.6	3961.3	3973.0
27.5°	8124.6	7386.7	4811.9	3308.9	3295.3	3439.0	3567.1	3654.5	3693.4	3724.4	3736.1
30°	8577.1	7643.1	4388.5	3105.0	3165.2	3301.1	3392.4	3431.2	3442.9	3448.7	3462.3
32.5°	9066.4	7864.4	3943.9	2936.1	3040.9	3167.1	3221.5	3239.0	3184.6	3147.7	3159.4
35°	9658.7	8101.3	3508.9	2802.1	2918.6	3027.3	3044.8	3029.3	2965.2	2889.4	2893.3
37.5°	10390.7	8396.5	3161.3	2706.9	2804.0	2875.9	2854.5	2850.6	2856.4	2767.1	2772.9
40°	11287.9	8781.0	2906.9	2633.1	2710.8	2726.3	2666.1	2699.1	2728.3	2592.3	2596.2
42.5°	12284.0	9245.1	2745.8	2582.6	2633.1	2596.2	2503.0	2539.9	2536.0	2357.4	2355.4
45°	13299.6	9749.9	2689.4	2545.7	2561.3	2487.5	2384.6	2394.3	2312.7	2151.6	2157.4
47.5°	14309.4	10291.7	2724.4	2514.7	2472.0	2388.5	2308.8	2266.1	2145.7	2025.3	2025.3
50°	15299.7	10860.7	2852.6	2452.5	2349.6	2301.1	2242.8	2167.1	2038.9	1936.0	1928.2
52.5°	16218.2	11433.5	2996.2	2349.6	2196.2	2225.3	2188.4	2101.1	1974.8	1870.0	1871.9
55°	17088.1	12006.4	3052.6	2207.9	2052.5	2159.3	2138.0	1976.8	1825.3	1739.9	1732.1
57.5°	18035.7	12695.7	2990.4	2027.3	1936.0	2083.6	2002.0	1823.4	1736.0	1671.9	1666.1
60°	19348.4	13777.3	2856.4	1804.0	1825.3	1971.0	1831.1	1757.4	1662.2	1590.4	1586.5
62.5°	21529.1	15794.9	2640.9	1582.6	1695.2	1804.0	1749.6	1675.8	1578.7	1508.8	1508.8
65°	24752.5	18598.9	2235.0	1409.8	1549.6	1640.8	1662.2	1588.4	1487.4	1413.7	1417.5
67.5°	27471.1	20358.2	1691.3	1266.1	1400.1	1508.8	1569.0	1497.2	1390.4	1318.5	1320.4
70°	27321.6	19080.5	1291.3	1124.3	1268.0	1378.7	1456.4	1400.1	1285.5	1217.5	1223.4
72.5°	24267.1	15961.9	1044.7	980.6	1134.0	1242.8	1336.0	1293.3	1176.8	1110.7	1110.7
75°	17828.0	11330.6	835.0	835.0	967.0	1101.0	1203.9	1176.8	1069.9	1023.3	1009.8
77.5°	7514.9	4753.6	654.4	693.2	803.9	945.7	1073.8	1083.5	990.3	1048.6	951.5
80°	1998.1	1310.7	499.1	545.7	631.1	780.6	934.0	930.1	829.2	774.8	720.4
82.5°	761.2	516.5	355.4	384.5	456.3	598.1	739.8	763.1	662.2	572.8	572.8
85°	293.2	221.4	219.4	231.1	266.0	396.1	559.2	578.7	499.1	423.3	436.9
87.5°	75.7	66.0	81.6	77.7	122.3	211.7	320.4	332.1	304.9	176.7	252.4
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)