

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: P884609

Luminaire Tested: **NAV-SB5C-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37434 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

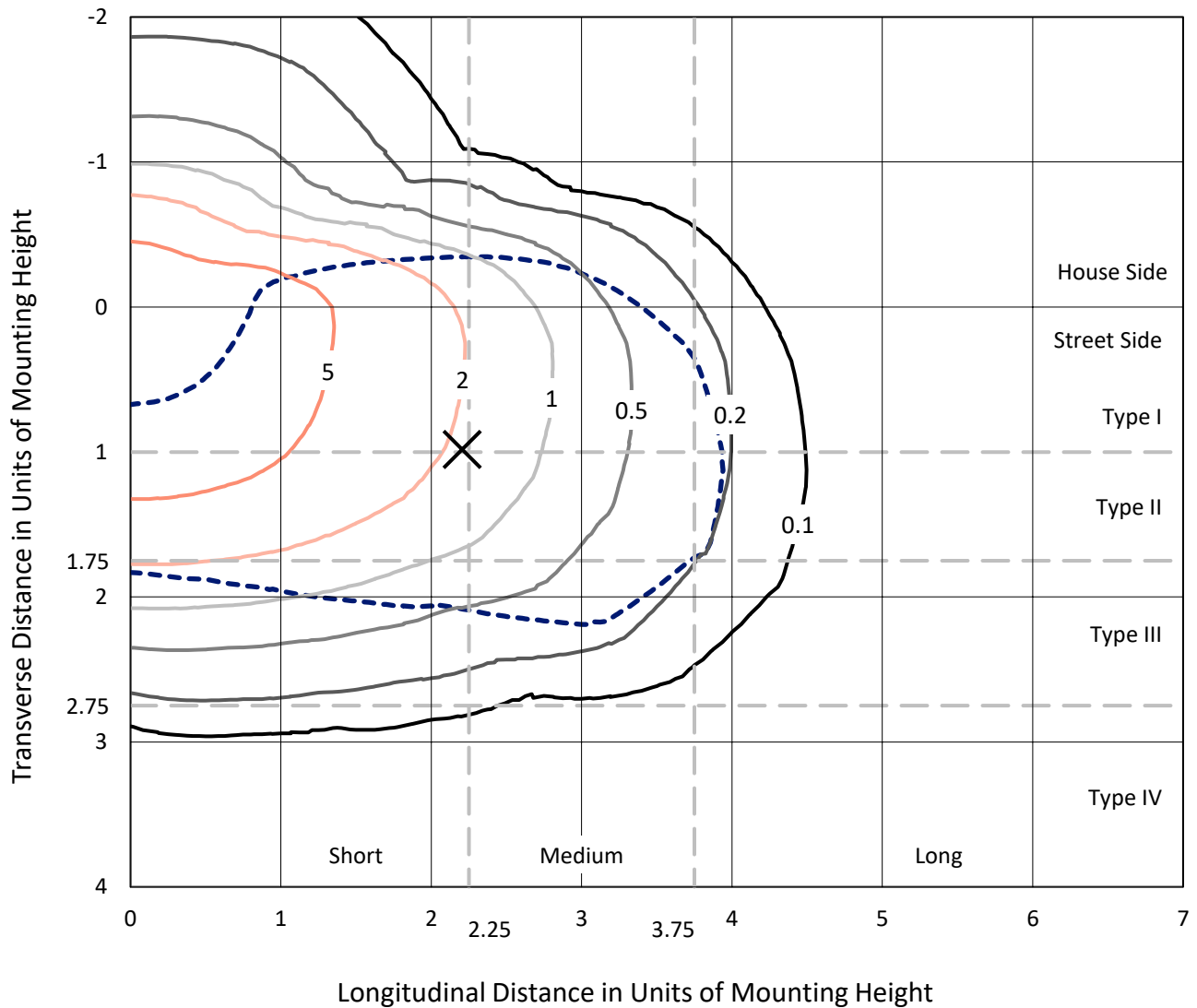
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

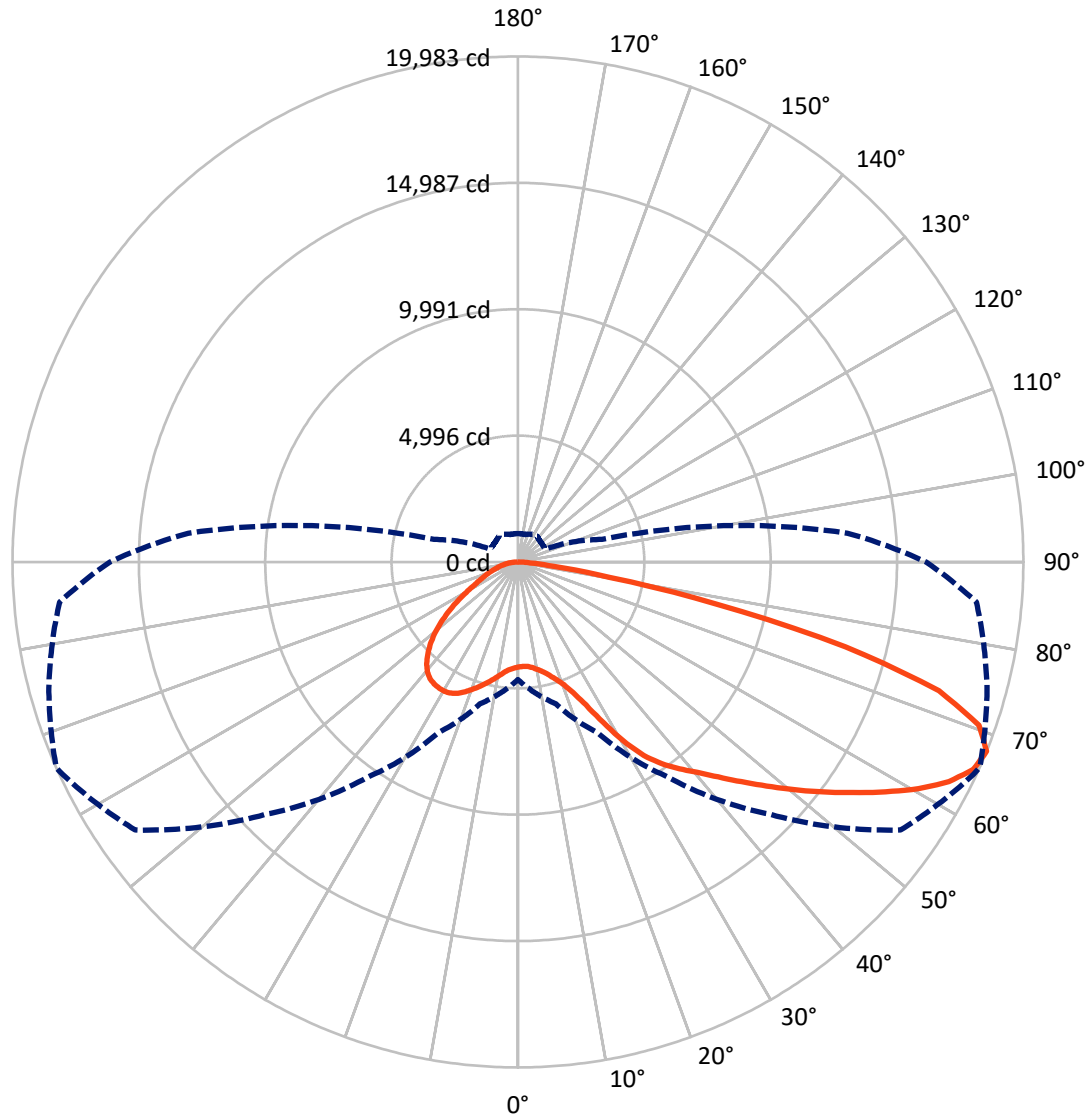
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9307.9	0.0	9307.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28126.1	0.0	28126.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	37434.0	0.0	37434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.6	1.1
10°-20°	1360.0	3.6
20°-30°	2621.4	7.0
30°-40°	4596.2	12.3
40°-50°	6833.1	18.3
50°-60°	8661.6	23.1
60°-70°	8475.2	22.6
70°-80°	4042.7	10.8
80°-90°	432.1	1.2
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°	37434.0	100.0
0°-180°	37434.0	100.0

Coefficient of Utilization

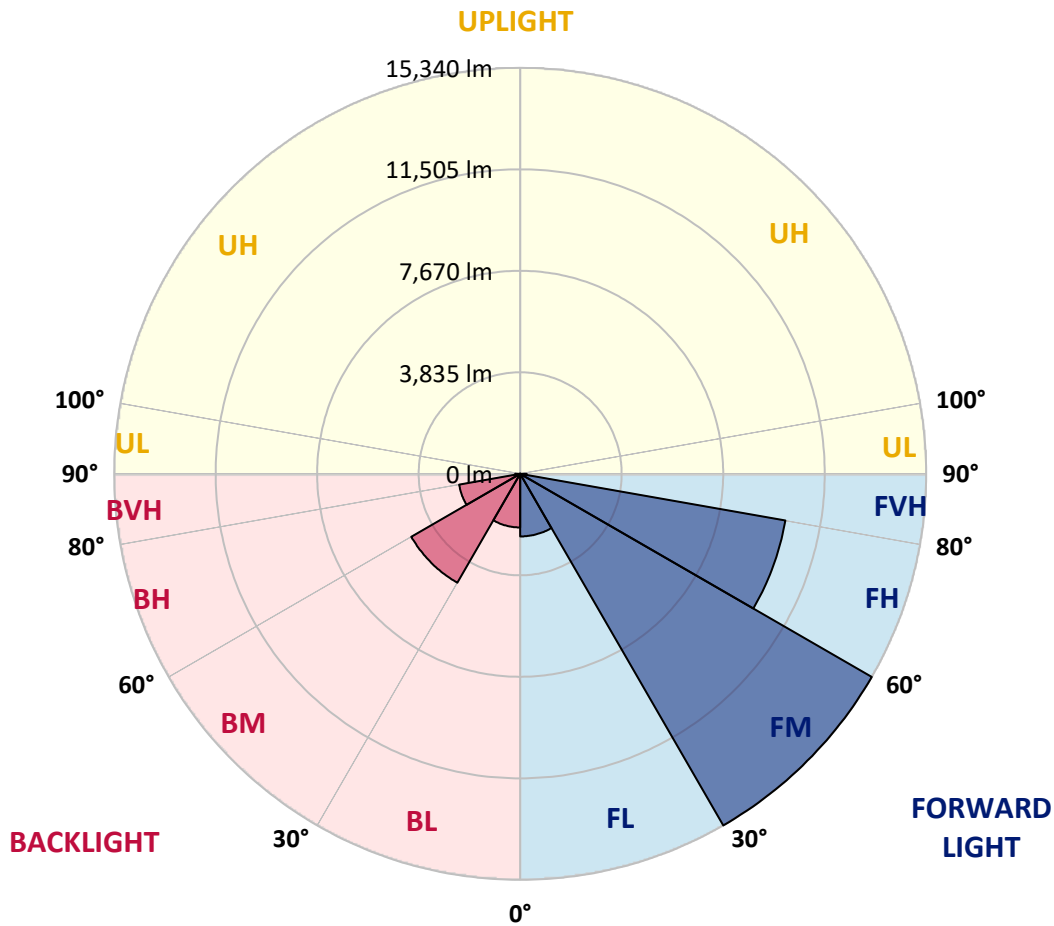


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2365.5	6.3			
FM (30°-60°)	15340.1	41.0			
FH (60°-80°)	10175.6	27.2			G4/12000
FVH (80°-90°)	245.0	0.7			G3/500
BL (0°-30°)	2027.6	5.4	B3/2500		
BM (30°-60°)	4750.8	12.7	B3/5000		
BH (60°-80°)	2342.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	187.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9
2.5°	4108.7	4132.3	4126.4	4116.5	4114.6	4118.5	4124.4	4130.3	4128.3	4138.2	4153.9
5°	4096.9	4120.5	4118.5	4118.5	4126.4	4142.1	4151.9	4161.8	4151.9	4163.7	4185.4
7.5°	4104.7	4122.4	4130.3	4138.2	4157.8	4187.3	4210.9	4232.6	4220.8	4234.5	4262.1
10°	4205.0	4218.8	4226.7	4226.7	4240.4	4273.9	4297.5	4336.8	4327.0	4348.6	4384.0
12.5°	4387.9	4401.7	4401.7	4393.8	4403.7	4425.3	4433.2	4476.4	4458.7	4494.1	4529.6
15°	4612.2	4639.7	4618.1	4604.3	4608.2	4629.9	4627.9	4661.3	4643.6	4673.1	4704.6
17.5°	4860.0	4895.4	4860.0	4858.0	4850.1	4873.7	4875.7	4905.2	4873.7	4895.4	4917.0
20°	5153.0	5202.2	5172.7	5182.5	5164.8	5174.7	5184.5	5227.8	5178.6	5194.3	5188.4
22.5°	5566.1	5625.1	5593.6	5631.0	5619.2	5611.3	5609.3	5686.0	5609.3	5615.2	5558.2
25°	6167.9	6238.7	6183.6	6234.8	6234.8	6260.3	6289.8	6388.2	6260.3	6223.0	6075.5
27.5°	7056.9	7127.7	7019.5	7051.0	7041.2	7104.1	7072.6	7316.5	7178.8	7117.9	6820.9
30°	8126.8	8252.7	8048.2	8040.3	8030.5	8130.8	8176.0	8337.3	8197.6	8136.7	7778.7
32.5°	9283.3	9415.1	9171.2	9100.4	9063.0	9124.0	9086.6	9216.4	9120.1	9025.7	8583.1
35°	10506.7	10636.5	10404.4	10266.7	10117.2	9989.4	9855.7	9889.1	9798.6	9655.0	9196.8
37.5°	11663.2	11901.1	11655.3	11507.8	11232.4	10982.6	10608.9	10453.6	10369.0	10237.2	9775.0
40°	12841.3	12977.0	12790.1	12664.3	12365.3	11973.9	11376.0	11047.5	10933.5	10805.6	10414.2
42.5°	13708.6	13838.4	13738.1	13651.6	13417.5	12963.2	12190.3	11779.2	11614.0	11470.4	11138.0
45°	14397.0	14493.4	14430.4	14461.9	14361.6	13921.0	13034.0	12564.0	12392.8	12217.8	11956.2
47.5°	14674.3	14776.6	14876.9	15063.8	15234.9	14910.3	13940.7	13413.6	13232.7	13053.7	12796.0
50°	14642.9	14747.1	15038.2	15435.5	15966.5	15858.3	14896.6	14318.3	14151.2	13946.6	13708.6
52.5°	14391.1	14509.1	14882.8	15543.7	16389.4	16568.4	15870.1	15252.6	15095.2	14851.3	14613.4
55°	13730.3	13801.1	14361.6	15297.8	16489.7	17064.0	16824.0	16247.8	16090.4	15750.2	15490.6
57.5°	12504.9	12607.2	13423.4	14635.0	16237.9	17400.3	17661.9	17294.1	17142.7	16652.9	16381.5
60°	10905.9	11069.2	12003.4	13521.8	15596.8	17398.4	18423.1	18322.8	18196.9	17541.9	17258.7
62.5°	9096.5	9285.3	10184.1	11948.3	14475.7	16904.7	18899.0	19184.2	19119.3	18362.1	18000.2
65°	6986.1	7115.9	8010.8	9912.7	12731.1	15844.6	18954.1	19772.3	19784.1	18985.6	18387.7
67.5°	4651.5	5025.2	5802.1	7438.5	10394.6	14111.8	18470.3	19868.7	19982.7	19200.0	18192.9
70°	2269.7	2761.4	3522.5	4834.4	7438.5	11454.7	17205.6	19078.0	19331.7	18574.5	17032.5
72.5°	942.1	1101.4	1516.4	2385.7	4269.9	7729.5	14664.5	16934.2	17404.3	16458.2	14320.3
75°	635.3	688.4	867.4	1223.4	1945.2	3811.7	10575.5	12626.9	13384.1	12430.2	10160.5
77.5°	489.7	523.2	631.3	855.6	1156.5	1441.7	5660.5	7609.6	8001.0	7407.0	5286.8
80°	385.5	411.1	472.0	623.5	820.2	771.0	1929.4	3447.8	3674.0	3082.0	1699.3
82.5°	334.4	344.2	338.3	422.9	544.8	450.4	633.3	1272.5	1404.3	1018.8	554.6
85°	241.9	269.5	281.3	261.6	289.1	228.1	259.6	450.4	495.6	442.5	312.7
87.5°	98.3	145.5	179.0	169.1	106.2	64.9	80.6	131.8	151.4	165.2	102.3
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°	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9	4151.9
2.5°	4155.9	4169.6	4179.5	4191.3	4199.1	4210.9	4234.5	4248.3	4250.3	4260.1	4258.1
5°	4193.2	4212.9	4234.5	4266.0	4301.4	4330.9	4376.1	4407.6	4419.4	4429.2	4427.3
7.5°	4273.9	4301.4	4340.7	4395.8	4446.9	4486.3	4541.4	4578.7	4616.1	4629.9	4631.8
10°	4393.8	4433.2	4490.2	4565.0	4620.0	4671.2	4728.2	4759.7	4797.0	4812.8	4820.6
12.5°	4543.3	4584.6	4659.4	4763.6	4814.7	4850.1	4869.8	4861.9	4869.8	4883.6	4887.5
15°	4714.4	4759.7	4844.2	4956.3	4991.8	4960.3	4917.0	4877.7	4871.8	4875.7	4889.5
17.5°	4917.0	4950.4	5048.8	5143.2	5117.6	4987.8	4893.4	4830.5	4799.0	4789.2	4802.9
20°	5200.2	5200.2	5280.9	5339.9	5168.8	4948.5	4801.0	4698.7	4633.8	4606.3	4600.4
22.5°	5544.4	5513.0	5564.1	5522.8	5158.9	4838.3	4633.8	4456.8	4358.4	4319.1	4313.2
25°	5981.1	5943.7	5929.9	5674.2	5088.1	4663.3	4330.9	4116.5	4030.0	4008.3	4012.3
27.5°	6639.9	6545.5	6366.5	5756.8	4958.3	4387.9	3976.9	3778.2	3729.1	3731.0	3736.9
30°	7517.1	7328.3	6889.7	5770.6	4745.9	3998.5	3615.0	3473.4	3449.8	3459.6	3493.0
32.5°	8329.4	8150.4	7424.7	5707.7	4419.4	3617.0	3290.5	3196.1	3160.7	3172.5	3188.2
35°	8966.7	8917.5	7920.3	5619.2	4018.2	3259.0	2999.4	2918.7	2849.9	2834.2	2846.0
37.5°	9568.5	9548.8	8292.0	5495.3	3620.9	3005.3	2765.3	2659.1	2558.8	2503.7	2505.7
40°	10229.4	10209.7	8535.9	5304.5	3268.8	2785.0	2554.9	2415.2	2291.3	2191.0	2200.9
42.5°	10972.8	10856.8	8652.0	5031.1	2969.9	2598.1	2383.8	2195.0	2031.7	1939.3	1945.2
45°	11785.1	11523.5	8650.0	4683.0	2718.1	2427.0	2200.9	1933.4	1781.9	1695.4	1691.5
47.5°	12646.6	12160.8	8543.8	4297.5	2474.2	2238.2	1917.6	1713.1	1612.8	1559.7	1547.9
50°	13535.6	12756.7	8362.9	3854.9	2224.5	2023.8	1740.6	1601.0	1524.3	1475.1	1457.4
52.5°	14371.4	13297.6	8144.5	3353.4	1970.7	1815.4	1662.0	1553.8	1473.1	1418.1	1394.5
55°	15148.3	13763.7	7835.8	2840.1	1764.2	1675.7	1624.6	1534.1	1441.7	1376.8	1351.2
57.5°	15838.7	14066.6	7302.7	2358.2	1616.7	1579.3	1585.2	1500.7	1394.5	1339.4	1304.0
60°	16413.0	14288.8	6514.1	1911.7	1496.7	1484.9	1524.3	1437.7	1313.8	1250.9	1223.4
62.5°	16757.2	14284.9	5546.4	1565.6	1394.5	1398.4	1443.6	1359.1	1233.2	1174.2	1156.5
65°	16727.7	13934.8	4484.3	1339.4	1296.1	1300.1	1359.1	1272.5	1166.3	1130.9	1128.9
67.5°	16135.7	13081.2	3439.9	1191.9	1188.0	1205.7	1274.5	1213.5	1125.0	1121.1	1127.0
70°	14532.7	11309.1	2478.2	1073.9	1075.8	1101.4	1191.9	1176.1	1103.4	1111.2	1109.3
72.5°	11653.3	8622.5	1663.9	950.0	951.9	993.2	1113.2	1146.6	1081.7	1186.0	1201.7
75°	7761.0	5377.2	1069.9	818.2	820.2	873.3	1044.4	1089.6	1022.7	1182.0	1191.9
77.5°	3729.1	2417.2	774.9	688.4	688.4	737.6	902.8	975.5	871.3	918.5	841.8
80°	1288.3	908.7	609.7	554.6	542.8	576.3	761.2	845.7	751.3	692.3	649.0
82.5°	507.4	472.0	489.7	430.7	391.4	413.0	592.0	698.2	552.7	499.6	497.6
85°	291.1	306.8	346.2	285.2	226.2	253.7	434.7	501.5	417.0	367.8	375.7
87.5°	78.7	108.2	159.3	147.5	102.3	108.2	206.5	277.3	240.0	184.9	190.8
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)