

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: P884647

Luminaire Tested: **NAV-SB5C-760-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884647
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-SB5C-760-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40596 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

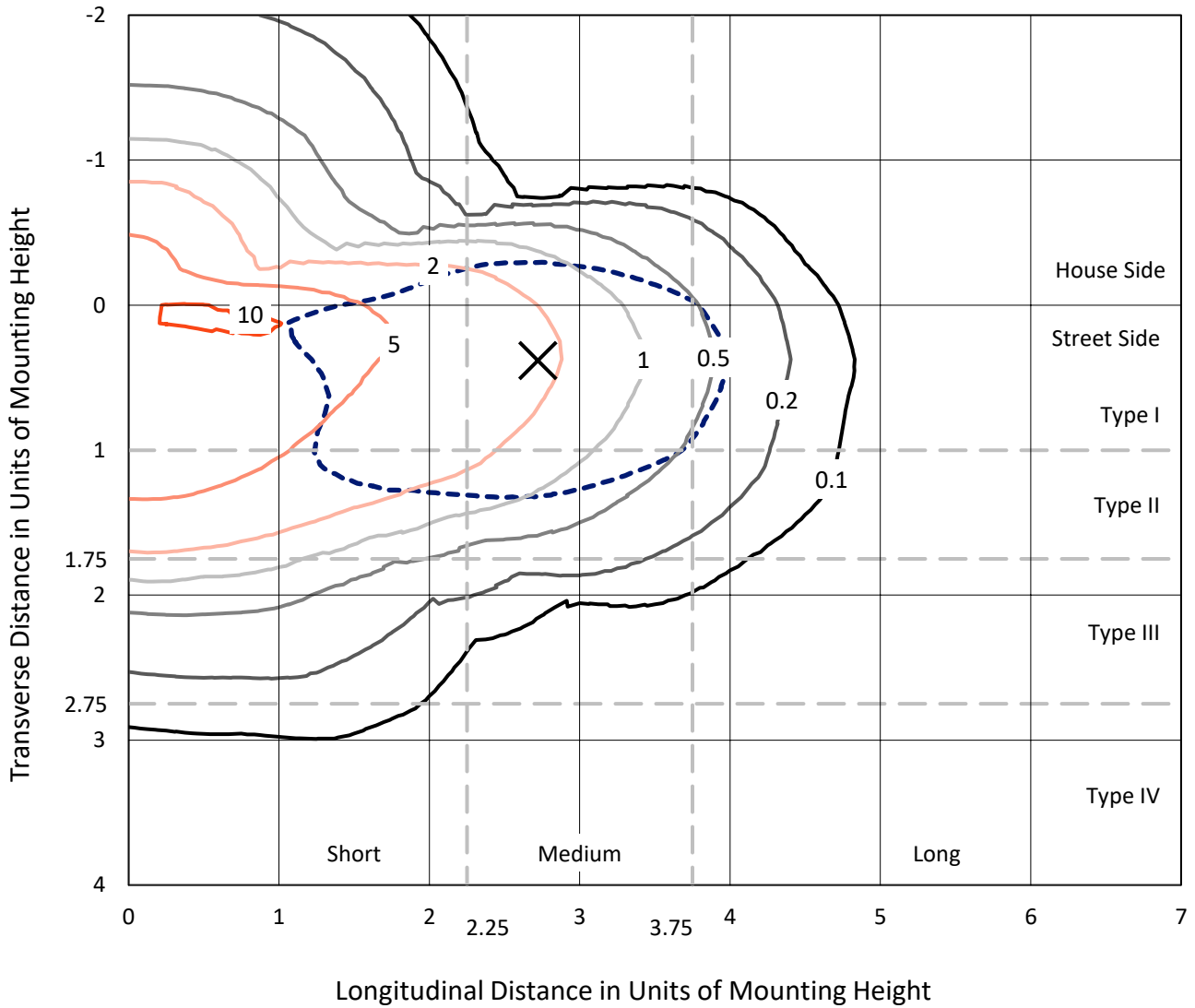
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

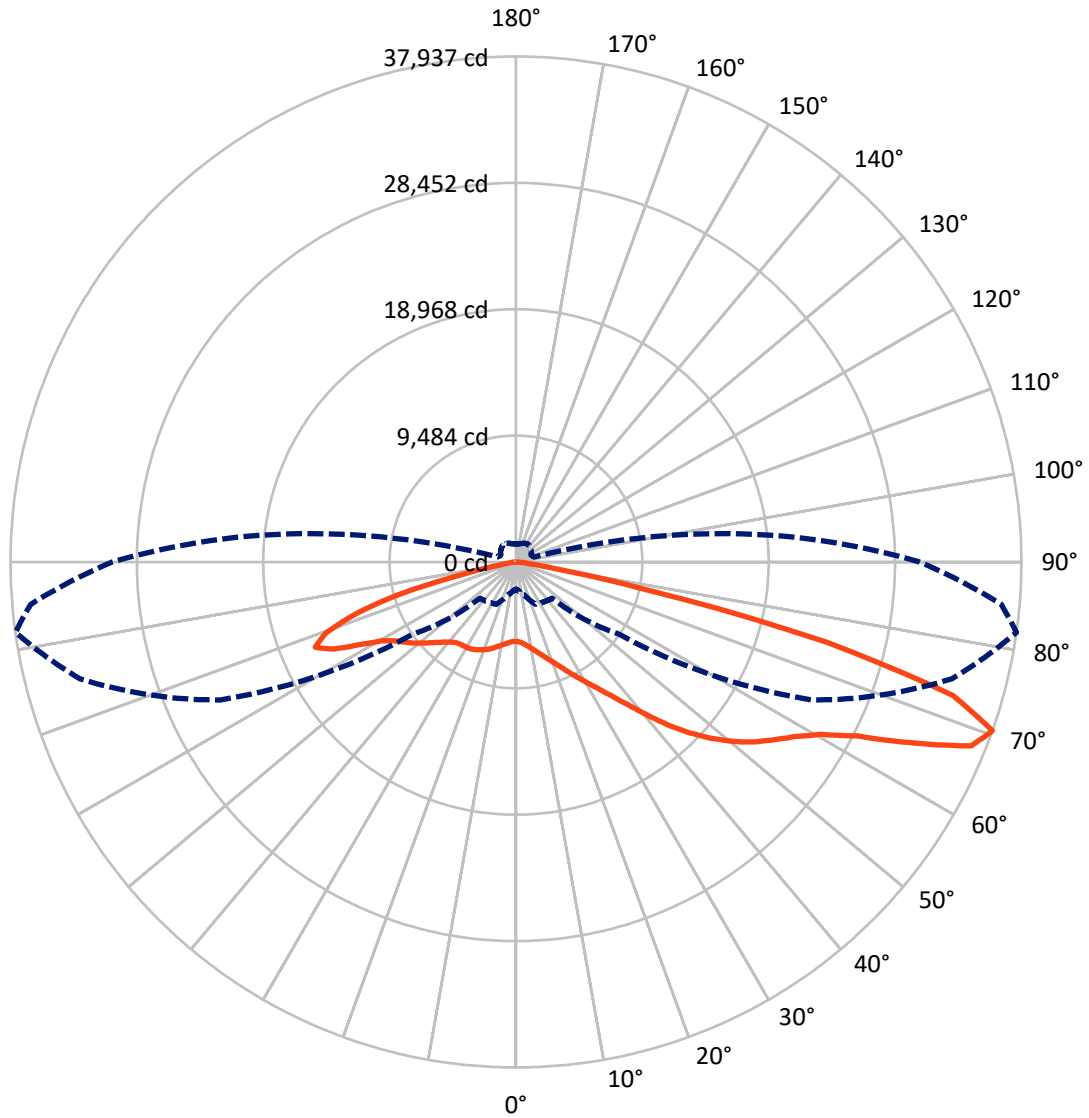
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	10007.9	0.0	10007.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	30588.1	0.0	30588.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	40596.0	0.0	40596.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.0	1.4
10°-20°	1614.5	4.0
20°-30°	2701.0	6.7
30°-40°	4219.6	10.4
40°-50°	6720.3	16.6
50°-60°	9352.1	23.0
60°-70°	9782.7	24.1
70°-80°	5112.9	12.6
80°-90°	530.9	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°	40596.0	100.0
0°-180°	40596.0	100.0

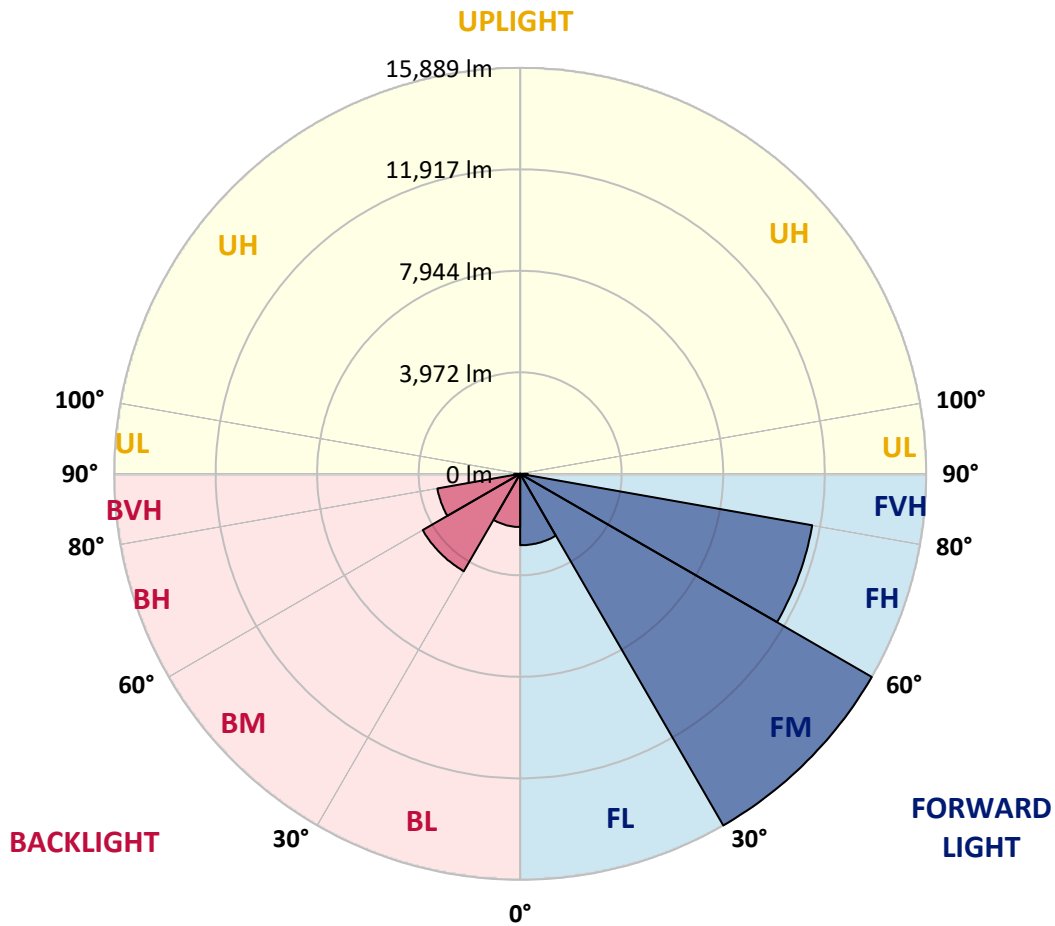


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.5	6.9			
FM (30°-60°)	15888.9	39.1			
FH (60°-80°)	11606.5	28.6			G4/12000
FVH (80°-90°)	297.2	0.7			G3/500
BL (0°-30°)	2082.0	5.1	B3/2500		
BM (30°-60°)	4403.1	10.8	B3/5000		
BH (60°-80°)	3289.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	233.7	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°	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9
2.5°	6094.1	6128.5	6117.7	6107.0	6107.0	6091.9	6089.7	6068.2	6051.0	6023.0	6016.5
5°	6171.6	6208.2	6203.9	6212.5	6240.5	6247.0	6253.5	6240.5	6206.1	6171.6	6156.5
7.5°	6102.7	6143.6	6156.5	6208.2	6294.4	6371.9	6430.1	6453.8	6421.5	6371.9	6348.2
10°	5870.0	5915.3	5960.5	6083.3	6236.2	6419.3	6574.4	6667.1	6660.6	6613.2	6572.3
12.5°	5398.3	5445.7	5542.6	5781.7	6061.7	6384.9	6673.5	6867.4	6934.2	6899.7	6828.6
15°	5021.3	5062.2	5135.5	5381.0	5745.1	6236.2	6710.1	7087.1	7257.3	7237.9	7151.7
17.5°	5010.5	5027.8	5073.0	5189.3	5469.4	6003.6	6671.4	7302.5	7627.8	7625.6	7517.9
20°	5200.1	5206.5	5232.4	5256.1	5415.5	5826.9	6572.3	7481.3	8043.5	8043.5	7927.2
22.5°	5462.9	5458.6	5484.4	5462.9	5540.4	5811.9	6509.8	7638.6	8506.7	8541.2	8394.7
25°	5857.1	5835.6	5829.1	5779.6	5794.6	5951.9	6578.7	7817.4	9056.0	9127.1	8944.0
27.5°	6382.7	6348.2	6324.5	6210.4	6171.6	6240.5	6789.8	8032.8	9667.8	9790.6	9557.9
30°	7067.7	7005.3	6970.8	6772.6	6632.6	6643.4	7108.7	8319.3	10307.5	10505.7	10210.6
32.5°	8002.6	7905.7	7813.1	7487.8	7231.4	7147.4	7520.1	8715.6	11001.2	11317.8	10938.7
35°	9049.5	8972.0	8872.9	8371.0	7976.8	7782.9	8075.9	9269.3	11813.3	12315.2	11821.9
37.5°	10057.7	9990.9	10038.3	9361.9	8853.5	8571.3	8804.0	10012.4	12815.0	13556.0	12929.1
40°	11100.3	11048.6	11055.0	10408.8	9816.4	9499.7	9687.2	10945.2	13963.1	15031.6	14260.4
42.5°	12233.3	12194.6	12065.3	11492.3	10826.7	10531.6	10703.9	12022.2	15195.3	16711.8	15720.9
45°	13502.1	13478.4	13357.8	12700.8	11938.2	11606.5	11839.1	13211.3	16433.9	18292.9	17187.9
47.5°	14598.6	14618.0	14602.9	14049.3	13258.7	12771.9	13049.8	14452.1	17586.4	19779.3	18594.5
50°	15126.4	15227.6	15376.2	15203.9	14712.8	14217.3	14271.2	15649.8	18685.0	21173.0	19943.0
52.5°	14850.6	15042.3	15447.3	15723.0	15912.6	15809.2	15664.9	16838.9	19719.0	22431.0	21218.3
55°	13823.1	14092.4	14764.5	15430.1	16397.3	17149.1	17338.7	18157.2	20727.1	23538.3	22424.6
57.5°	11951.2	12388.4	12991.6	14337.9	15966.5	17797.5	19290.3	19986.1	21795.6	24720.9	23686.9
60°	8741.5	9327.4	10077.1	12080.4	14458.6	17450.7	20951.1	22795.1	23314.2	26252.5	25330.5
62.5°	5594.3	5956.2	6645.5	8532.5	11266.1	15673.5	21459.5	26306.3	25888.4	28764.2	27794.8
65°	3830.1	4062.7	4693.9	5753.7	7283.1	11666.8	20098.1	28938.7	29977.0	32745.0	32008.3
67.5°	2783.1	2959.8	3498.3	4426.8	4745.6	6904.0	15596.0	28818.0	33951.4	36846.5	35700.5
70°	2029.2	2154.1	2606.5	3498.3	3651.3	3840.8	9448.0	24496.8	33865.2	37936.5	36564.3
72.5°	1503.6	1589.8	1893.5	2714.2	2955.5	2593.6	4676.6	17803.9	29100.2	34313.3	33212.5
75°	1087.8	1152.5	1376.5	2076.6	2365.2	1975.3	2332.9	10404.5	20298.4	24137.1	24331.0
77.5°	831.5	881.0	1027.5	1520.8	1893.5	1482.0	1447.6	4786.5	9624.7	9672.1	10214.9
80°	667.8	700.1	779.8	1070.6	1451.9	1109.4	943.5	1932.3	3041.6	2574.2	2701.3
82.5°	491.1	545.0	659.2	751.8	1038.3	764.7	575.2	975.8	1156.8	995.2	1003.8
85°	280.0	316.7	398.5	538.5	663.5	467.4	329.6	433.0	538.5	441.6	394.2
87.5°	99.1	129.2	140.0	211.1	288.7	193.9	127.1	124.9	176.6	131.4	109.9
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°	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9	5951.9
2.5°	5995.0	5984.2	5941.1	5882.9	5822.6	5764.5	5745.1	5704.2	5676.2	5661.1	5678.3
5°	6115.6	6081.1	5979.9	5850.6	5714.9	5568.4	5465.0	5370.3	5301.3	5236.7	5262.6
7.5°	6287.9	6227.6	6053.1	5826.9	5585.7	5342.3	5161.3	5023.4	4930.8	4870.5	4883.4
10°	6488.3	6395.6	6128.5	5790.3	5417.7	5068.7	4855.4	4736.9	4678.8	4646.5	4655.1
12.5°	6718.8	6587.4	6206.1	5706.3	5161.3	4762.8	4616.3	4581.8	4584.0	4586.2	4590.5
15°	7003.1	6820.0	6268.5	5523.2	4827.4	4528.0	4502.1	4558.2	4616.3	4644.3	4642.2
17.5°	7324.1	7065.6	6279.3	5221.6	4500.0	4377.2	4459.1	4579.7	4668.0	4706.8	4715.4
20°	7668.7	7315.5	6201.8	4795.1	4230.7	4254.4	4400.9	4556.0	4652.9	4702.5	4715.4
22.5°	8062.9	7582.6	6016.5	4347.0	4011.0	4120.9	4293.2	4444.0	4545.2	4594.8	4607.7
25°	8513.2	7882.0	5725.7	3970.1	3821.4	3970.1	4142.4	4267.3	4349.2	4394.4	4407.4
27.5°	9012.9	8194.3	5338.0	3670.6	3655.6	3815.0	3957.2	4054.1	4097.2	4131.6	4144.6
30°	9514.8	8478.7	4868.4	3444.5	3511.2	3662.0	3763.3	3806.4	3819.3	3825.7	3840.8
32.5°	10057.7	8724.3	4375.1	3257.1	3373.4	3513.4	3573.7	3593.1	3532.8	3491.9	3504.8
35°	10714.7	8987.1	3892.5	3108.4	3237.7	3358.3	3377.7	3360.5	3289.4	3205.4	3209.7
37.5°	11526.8	9314.5	3506.9	3002.9	3110.6	3190.3	3166.6	3162.3	3168.7	3069.6	3076.1
40°	12522.0	9741.0	3224.7	2921.0	3007.2	3024.4	2957.6	2994.3	3026.6	2875.8	2880.1
42.5°	13627.1	10255.8	3046.0	2865.0	2921.0	2880.1	2776.7	2817.6	2813.3	2615.1	2613.0
45°	14753.7	10815.9	2983.5	2824.1	2841.3	2759.4	2645.3	2656.1	2565.6	2386.8	2393.2
47.5°	15873.8	11416.9	3022.3	2789.6	2742.2	2649.6	2561.3	2513.9	2380.3	2246.8	2246.8
50°	16972.4	12048.1	3164.4	2720.7	2606.5	2552.7	2488.0	2404.0	2261.8	2147.7	2139.1
52.5°	17991.4	12683.6	3323.8	2606.5	2436.3	2468.6	2427.7	2330.8	2190.8	2074.4	2076.6
55°	18956.4	13319.0	3386.3	2449.3	2276.9	2395.4	2371.7	2192.9	2024.9	1930.1	1921.5
57.5°	20007.6	14083.7	3317.4	2248.9	2147.7	2311.4	2220.9	2022.7	1925.8	1854.7	1848.2
60°	21463.8	15283.6	3168.7	2001.2	2024.9	2186.4	2031.4	1949.5	1843.9	1764.2	1759.9
62.5°	23882.9	17521.8	2929.6	1755.6	1880.6	2001.2	1940.9	1859.0	1751.3	1673.8	1673.8
65°	27458.8	20632.3	2479.4	1563.9	1719.0	1820.2	1843.9	1762.1	1650.1	1568.2	1572.5
67.5°	30474.6	22584.0	1876.3	1404.5	1553.1	1673.8	1740.5	1660.8	1542.4	1462.7	1464.8
70°	30308.7	21166.6	1432.5	1247.2	1406.7	1529.4	1615.6	1553.1	1426.0	1350.6	1357.1
72.5°	26920.3	17707.0	1158.9	1087.8	1258.0	1378.6	1482.0	1434.7	1305.4	1232.2	1232.2
75°	19777.1	12569.4	926.3	926.3	1072.8	1221.4	1335.6	1305.4	1186.9	1135.2	1120.2
77.5°	8336.5	5273.3	725.9	769.0	891.8	1049.1	1191.2	1202.0	1098.6	1163.2	1055.5
80°	2216.6	1454.0	553.6	605.3	700.1	866.0	1036.1	1031.8	919.8	859.5	799.2
82.5°	844.4	573.0	394.2	426.5	506.2	663.5	820.7	846.6	734.6	635.5	635.5
85°	325.3	245.6	243.4	256.3	295.1	439.4	620.4	641.9	553.6	469.6	484.7
87.5°	84.0	73.2	90.5	86.2	135.7	234.8	355.4	368.4	338.2	196.0	280.0
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)