

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: P885299

Luminaire Tested: **NAV-SB6C-735-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885299
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-SB6C-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45487 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

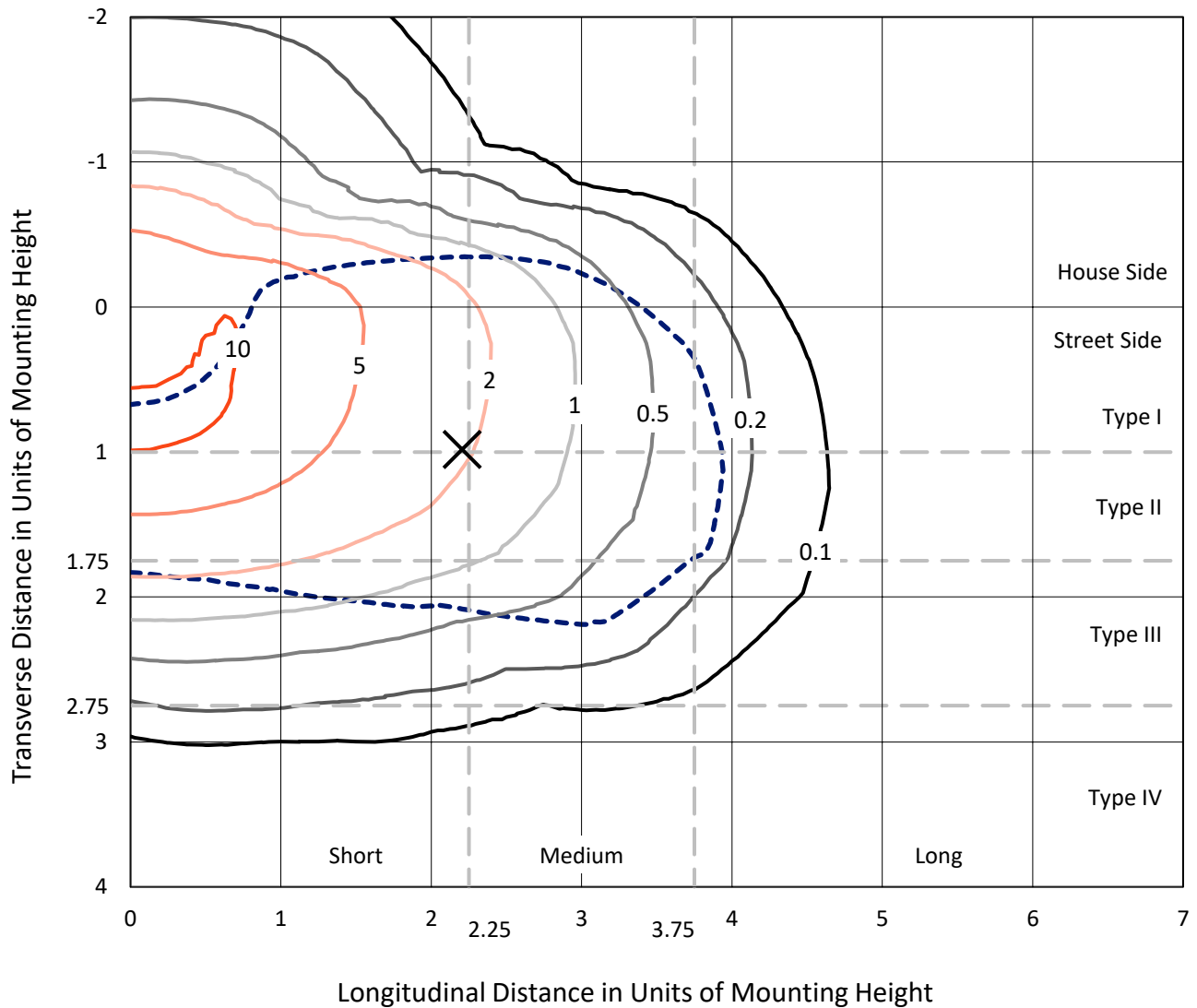
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

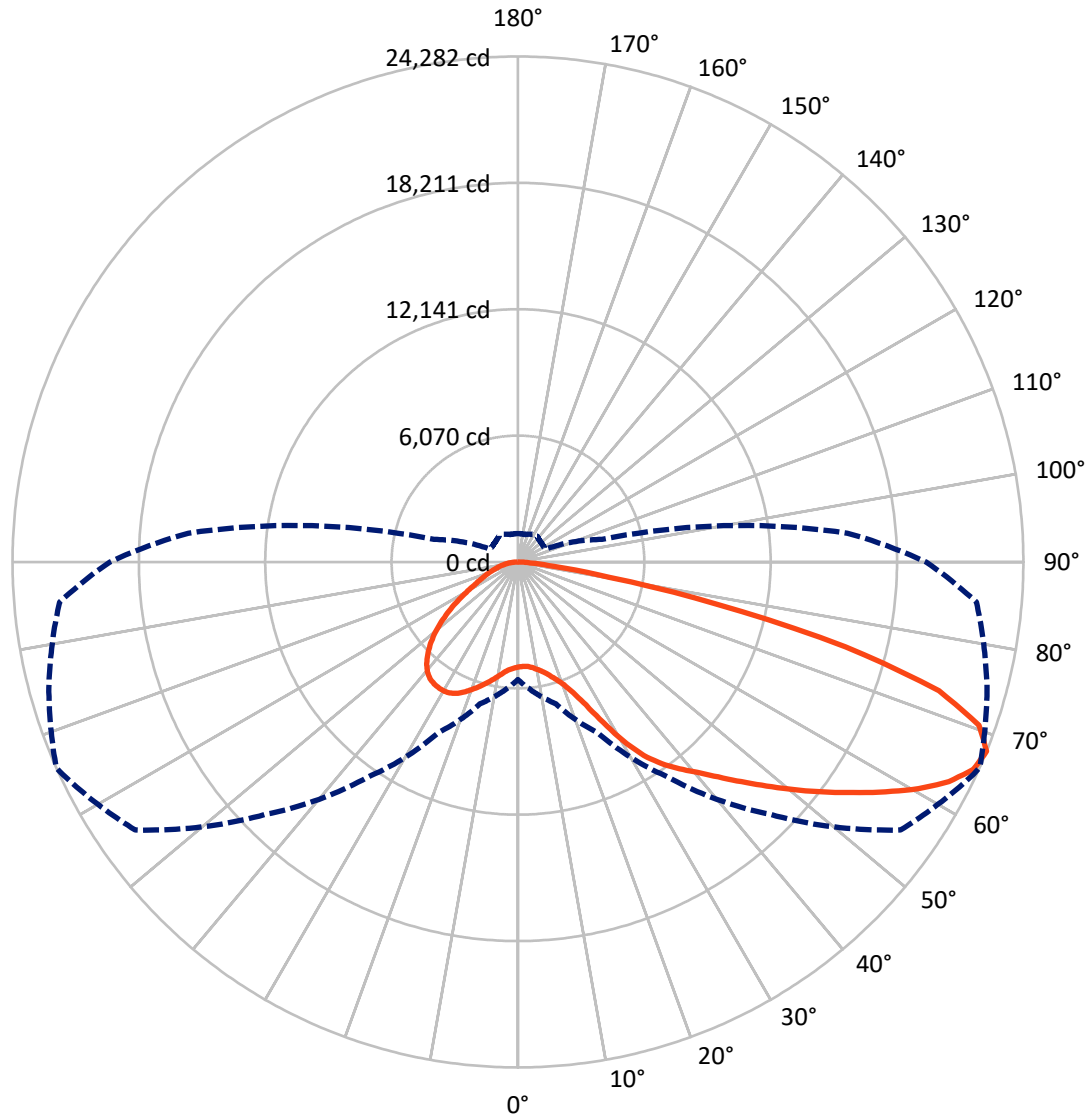
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	11310.2	0.0	11310.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	34176.8	0.0	34176.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	45487.0	0.0	45487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.2	1.1
10°-20°	1652.6	3.6
20°-30°	3185.3	7.0
30°-40°	5585.0	12.3
40°-50°	8303.1	18.3
50°-60°	10525.0	23.1
60°-70°	10298.4	22.6
70°-80°	4912.4	10.8
80°-90°	525.0	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°	45487.0	100.0
0°-180°	45487.0	100.0

Coefficient of Utilization



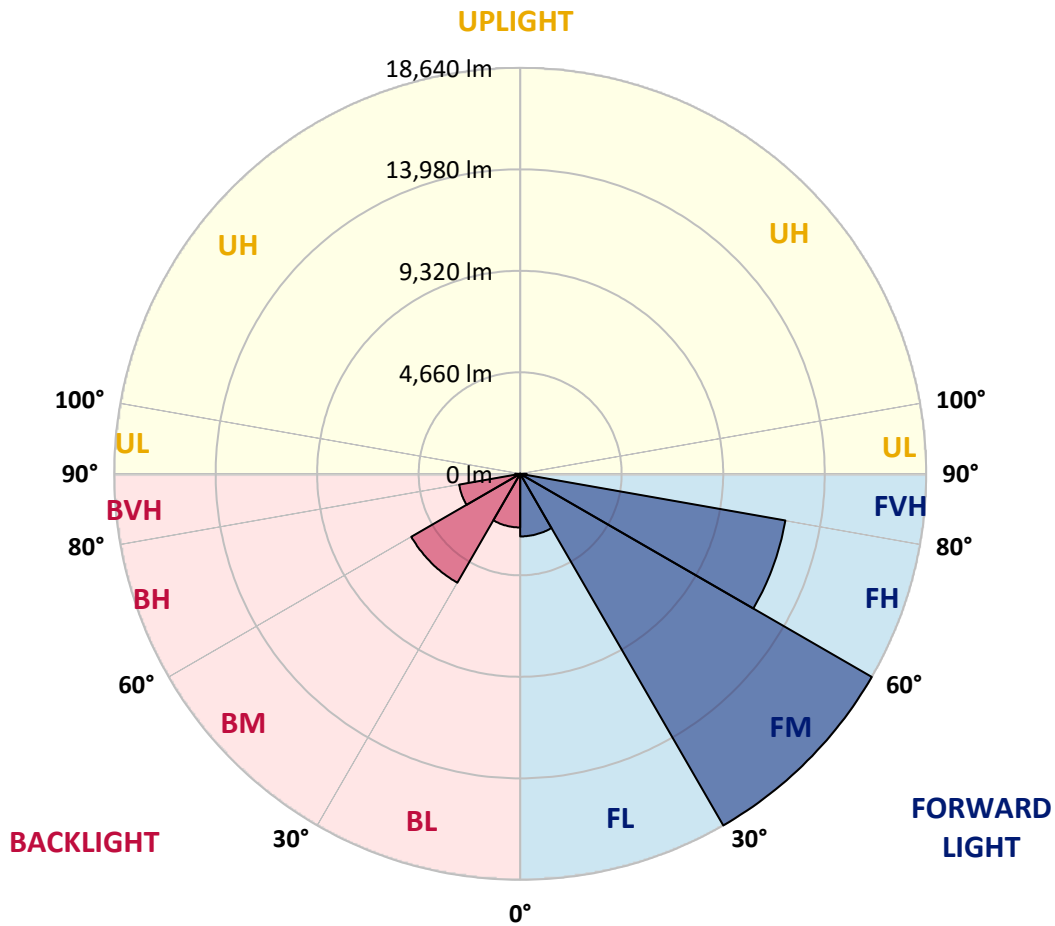
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.3	6.3			
FM (30°-60°)	18640.2	41.0			
FH (60°-80°)	12364.6	27.2			G5
FVH (80°-90°)	297.7	0.7			G3/500
BL (0°-30°)	2463.8	5.4	B3/2500		
BM (30°-60°)	5772.9	12.7	B4/8500		
BH (60°-80°)	2846.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	227.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1
2.5°	4992.5	5021.2	5014.0	5002.1	4999.7	5004.5	5011.7	5018.8	5016.4	5028.4	5047.5
5°	4978.2	5006.9	5004.5	5004.5	5014.0	5033.2	5045.1	5057.1	5045.1	5059.4	5085.7
7.5°	4987.8	5009.3	5018.8	5028.4	5052.3	5088.1	5116.8	5143.1	5128.8	5145.5	5178.9
10°	5109.6	5126.4	5135.9	5135.9	5152.7	5193.3	5222.0	5269.8	5257.8	5284.1	5327.1
12.5°	5331.9	5348.6	5348.6	5339.1	5351.0	5377.3	5386.9	5439.4	5417.9	5461.0	5504.0
15°	5604.3	5637.8	5611.5	5594.8	5599.6	5625.9	5623.5	5664.1	5642.6	5678.4	5716.7
17.5°	5905.5	5948.5	5905.5	5903.1	5893.5	5922.2	5924.6	5960.4	5922.2	5948.5	5974.8
20°	6261.6	6321.3	6285.5	6297.4	6275.9	6287.9	6299.8	6352.4	6292.6	6311.8	6304.6
22.5°	6763.5	6835.2	6796.9	6842.3	6828.0	6818.4	6816.0	6909.2	6816.0	6823.2	6753.9
25°	7494.8	7580.8	7513.9	7576.0	7576.0	7607.1	7642.9	7762.4	7607.1	7561.7	7382.4
27.5°	8575.0	8661.1	8529.6	8567.8	8555.9	8632.4	8594.1	8890.5	8723.2	8649.1	8288.2
30°	9875.1	10028.1	9779.5	9770.0	9758.0	9879.9	9934.9	10130.8	9961.2	9887.1	9452.1
32.5°	11280.4	11440.5	11144.2	11058.1	11012.7	11086.8	11041.4	11199.1	11082.0	10967.3	10429.6
35°	12766.9	12924.7	12642.6	12475.4	12293.7	12138.4	11975.9	12016.5	11906.6	11732.1	11175.2
37.5°	14172.2	14461.4	14162.6	13983.4	13648.8	13345.3	12891.2	12702.4	12599.6	12439.5	11877.9
40°	15603.8	15768.7	15541.6	15388.7	15025.4	14549.8	13823.3	13424.1	13285.5	13130.2	12654.6
42.5°	16657.7	16815.4	16693.6	16588.4	16304.0	15751.9	14812.7	14313.2	14112.4	13938.0	13534.1
45°	17494.2	17611.3	17534.8	17573.0	17451.2	16915.8	15838.0	15266.8	15058.9	14846.1	14528.3
47.5°	17831.2	17955.4	18077.3	18304.4	18512.3	18117.9	16939.7	16299.2	16079.3	15861.9	15548.8
50°	17792.9	17919.6	18273.3	18756.0	19401.3	19269.9	18101.2	17398.6	17195.4	16946.9	16657.7
52.5°	17487.0	17630.4	18084.5	18887.5	19915.2	20132.6	19284.2	18533.8	18342.6	18046.2	17757.1
55°	16684.0	16770.0	17451.2	18588.8	20037.0	20734.9	20443.3	19743.1	19551.9	19138.4	18823.0
57.5°	15195.1	15319.4	16311.2	17783.4	19731.1	21143.6	21461.4	21014.5	20830.5	20235.4	19905.6
60°	13252.1	13450.4	14585.6	16430.7	18952.0	21141.2	22386.3	22264.4	22111.5	21315.6	20971.5
62.5°	11053.4	11282.8	12375.0	14518.7	17589.8	20541.3	22964.7	23311.2	23232.4	22312.2	21872.5
65°	8489.0	8646.7	9734.1	12045.2	15469.9	19253.2	23031.6	24025.8	24040.1	23069.8	22343.3
67.5°	5652.1	6106.2	7050.2	9038.7	12630.7	17147.6	22443.7	24142.9	24281.5	23330.3	22106.7
70°	2758.0	3355.4	4280.3	5874.4	9038.7	13918.9	20907.0	23182.2	23490.5	22570.4	20696.7
72.5°	1144.8	1338.4	1842.6	2899.0	5188.5	9392.4	17819.2	20577.2	21148.4	19998.8	17401.0
75°	771.9	836.5	1054.0	1486.5	2363.6	4631.7	12850.6	15343.3	16263.4	15104.3	12346.3
77.5°	595.1	635.7	767.2	1039.6	1405.3	1751.8	6878.2	9246.6	9722.2	9000.4	6424.1
80°	468.4	499.5	573.6	757.6	996.6	936.8	2344.5	4189.5	4464.4	3745.0	2064.9
82.5°	406.3	418.2	411.1	513.8	662.0	547.3	769.6	1546.3	1706.4	1238.0	674.0
85°	294.0	327.4	341.8	317.9	351.3	277.2	315.5	547.3	602.3	537.7	380.0
87.5°	119.5	176.9	217.5	205.5	129.1	78.9	98.0	160.1	184.0	200.8	124.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885299
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1
2.5°	5049.9	5066.6	5078.6	5092.9	5102.5	5116.8	5145.5	5162.2	5164.6	5176.6	5174.2
5°	5095.3	5119.2	5145.5	5183.7	5226.7	5262.6	5317.6	5355.8	5370.1	5382.1	5379.7
7.5°	5193.3	5226.7	5274.5	5341.5	5403.6	5451.4	5518.3	5563.7	5609.1	5625.9	5628.2
10°	5339.1	5386.9	5456.2	5547.0	5613.9	5676.0	5745.4	5783.6	5829.0	5848.1	5857.7
12.5°	5520.7	5570.9	5661.7	5788.4	5850.5	5893.5	5917.4	5907.9	5917.4	5934.2	5938.9
15°	5728.6	5783.6	5886.4	6022.6	6065.6	6027.4	5974.8	5927.0	5919.8	5924.6	5941.3
17.5°	5974.8	6015.4	6134.9	6249.6	6218.6	6060.8	5946.1	5869.6	5831.4	5819.4	5836.2
20°	6318.9	6318.9	6416.9	6488.6	6280.7	6013.0	5833.8	5709.5	5630.6	5597.2	5590.0
22.5°	6737.2	6698.9	6761.1	6710.9	6268.7	5879.2	5630.6	5415.5	5296.1	5248.3	5241.1
25°	7267.7	7222.3	7205.6	6894.9	6182.7	5666.5	5262.6	5002.1	4896.9	4870.6	4875.4
27.5°	8068.4	7953.6	7736.2	6995.3	6025.0	5331.9	4832.4	4591.0	4531.3	4533.7	4540.8
30°	9134.3	8904.8	8371.9	7012.0	5766.9	4858.7	4392.7	4220.6	4191.9	4203.9	4244.5
32.5°	10121.3	9903.8	9021.9	6935.5	5370.1	4395.1	3998.3	3883.6	3840.6	3854.9	3874.1
35°	10895.6	10835.9	9624.2	6828.0	4882.6	3960.1	3644.6	3546.6	3463.0	3443.9	3458.2
37.5°	11626.9	11603.0	10075.9	6677.4	4399.8	3651.8	3360.2	3231.2	3109.3	3042.4	3044.8
40°	12429.9	12406.0	10372.2	6445.6	3972.0	3384.1	3104.5	2934.8	2784.3	2662.4	2674.3
42.5°	13333.3	13192.3	10513.2	6113.4	3608.8	3157.1	2896.6	2667.1	2468.8	2356.5	2363.6
45°	14320.4	14002.5	10510.8	5690.4	3302.9	2949.2	2674.3	2349.3	2165.3	2060.1	2055.3
47.5°	15367.1	14776.8	10381.8	5222.0	3006.5	2719.7	2330.2	2081.6	1959.7	1895.2	1880.9
50°	16447.4	15501.0	10161.9	4684.2	2703.0	2459.2	2115.1	1945.4	1852.2	1792.4	1770.9
52.5°	17463.1	16158.2	9896.6	4074.8	2394.7	2205.9	2019.5	1888.0	1790.0	1723.1	1694.4
55°	18407.1	16724.6	9521.4	3451.0	2143.8	2036.2	1974.1	1864.1	1751.8	1672.9	1641.9
57.5°	19246.0	17092.7	8873.8	2865.5	1964.5	1919.1	1926.3	1823.5	1694.4	1627.5	1584.5
60°	19943.8	17362.7	7915.4	2323.0	1818.7	1804.4	1852.2	1747.0	1596.5	1520.0	1486.5
62.5°	20362.1	17357.9	6739.6	1902.4	1694.4	1699.2	1754.2	1651.4	1498.5	1426.8	1405.3
65°	20326.2	16932.5	5449.0	1627.5	1575.0	1579.7	1651.4	1546.3	1417.2	1374.2	1371.8
67.5°	19606.9	15895.3	4180.0	1448.3	1443.5	1465.0	1548.7	1474.6	1367.0	1362.3	1369.4
70°	17659.1	13742.0	3011.3	1304.9	1307.3	1338.4	1448.3	1429.2	1340.7	1350.3	1347.9
72.5°	14160.2	10477.4	2021.9	1154.3	1156.7	1206.9	1352.7	1393.3	1314.5	1441.1	1460.2
75°	9430.6	6534.0	1300.1	994.2	996.6	1061.1	1269.0	1324.0	1242.8	1436.3	1448.3
77.5°	4531.3	2937.2	941.6	836.5	836.5	896.2	1097.0	1185.4	1058.7	1116.1	1022.9
80°	1565.4	1104.1	740.9	674.0	659.6	700.2	924.9	1027.7	912.9	841.2	788.7
82.5°	616.6	573.6	595.1	523.4	475.6	501.9	719.4	848.4	671.6	607.0	604.6
85°	353.7	372.8	420.6	346.5	274.8	308.3	528.2	609.4	506.7	446.9	456.5
87.5°	95.6	131.4	193.6	179.2	124.3	131.4	250.9	337.0	291.6	224.7	231.8
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)