

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: P885457

Luminaire Tested: **NAV-SB6D-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885457
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-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60243 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

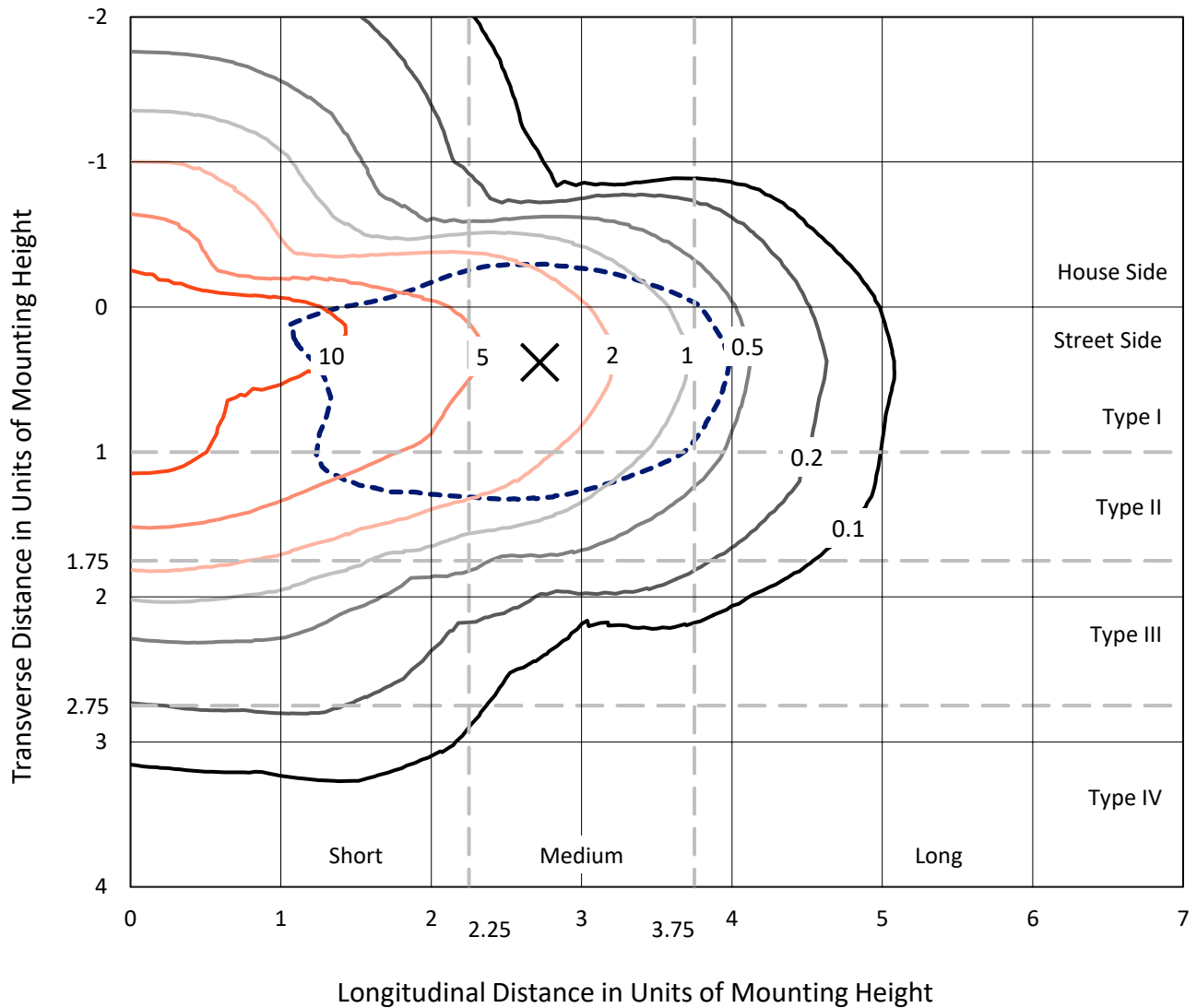
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

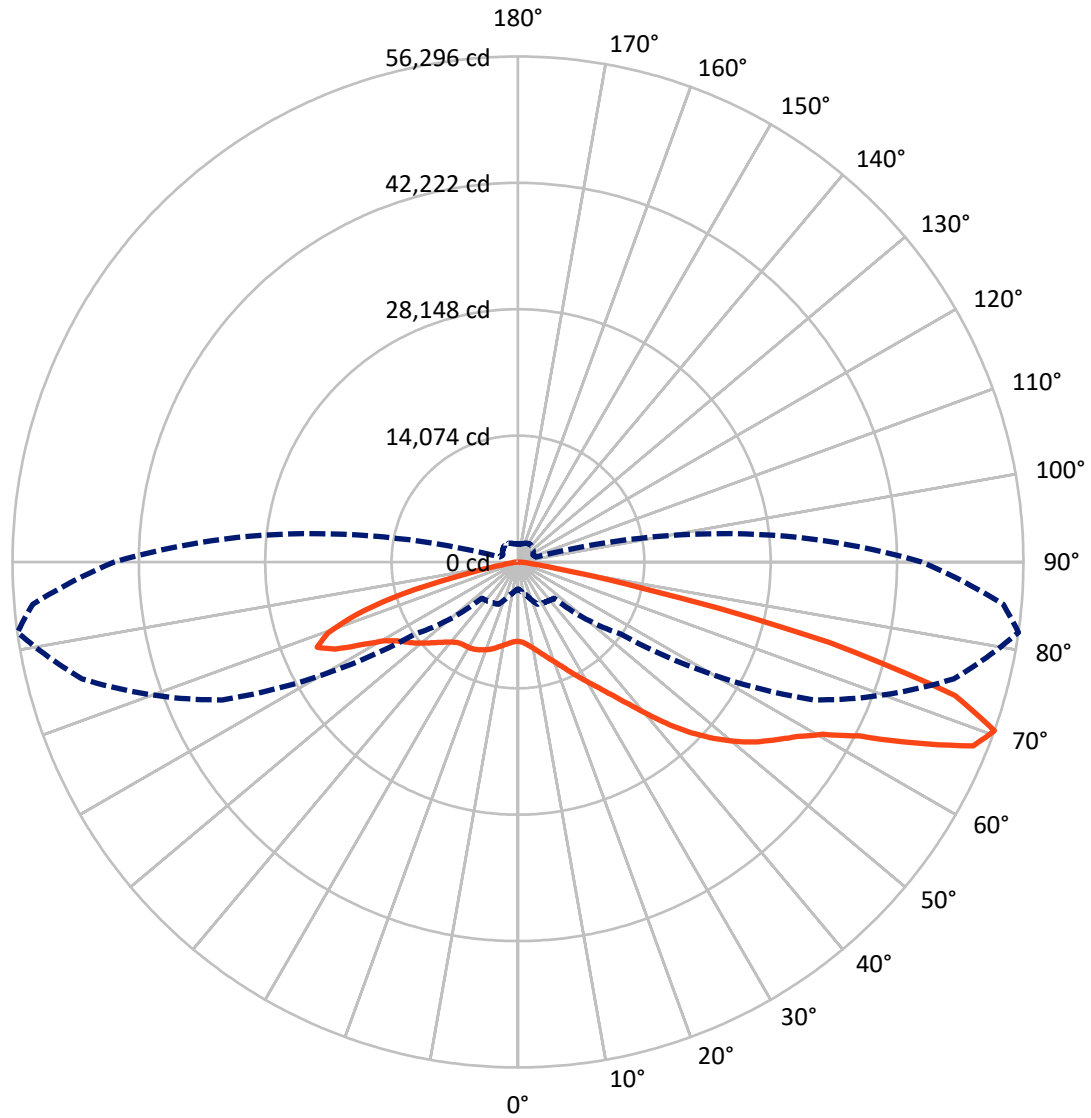
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	14851.4	0.0	14851.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	45391.6	0.0	45391.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	60243.0	0.0	60243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.9	1.4
10°-20°	2395.9	4.0
20°-30°	4008.2	6.7
30°-40°	6261.8	10.4
40°-50°	9972.6	16.6
50°-60°	13878.1	23.0
60°-70°	14517.1	24.1
70°-80°	7587.4	12.6
80°-90°	787.9	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°	60243.0	100.0
0°-180°	60243.0	100.0

Coefficient of Utilization

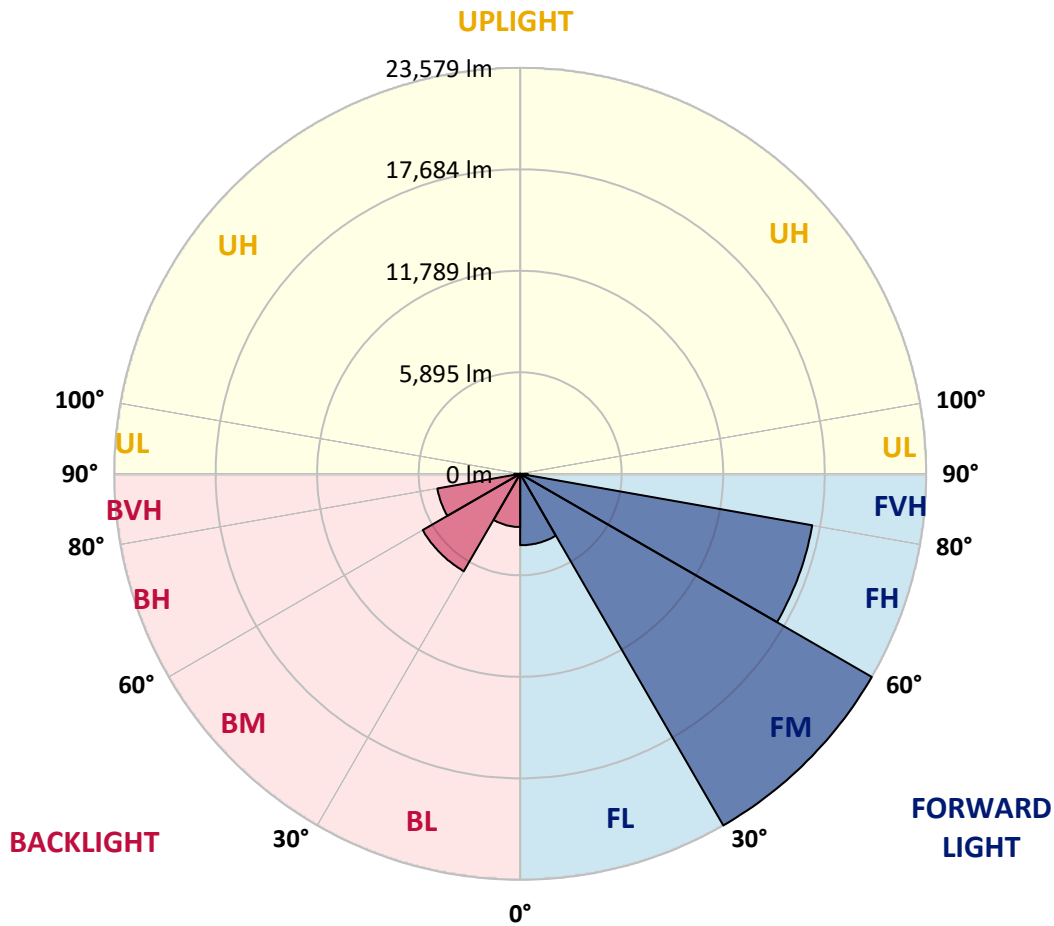


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4148.4	6.9			
FM (30°-60°)	23578.5	39.1			
FH (60°-80°)	17223.7	28.6			G5
FVH (80°-90°)	441.1	0.7			G3/500
BL (0°-30°)	3089.6	5.1	B4/5000		
BM (30°-60°)	6534.0	10.8	B4/8500		
BH (60°-80°)	4880.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	346.8	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°	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4
2.5°	9043.4	9094.5	9078.5	9062.5	9062.5	9040.2	9037.0	9005.0	8979.4	8937.9	8928.3
5°	9158.4	9212.8	9206.4	9219.2	9260.7	9270.3	9279.9	9260.7	9209.6	9158.4	9136.1
7.5°	9056.1	9116.9	9136.1	9212.8	9340.6	9455.7	9542.0	9577.2	9529.2	9455.7	9420.6
10°	8710.9	8778.0	8845.2	9027.4	9254.3	9526.1	9756.2	9893.7	9884.1	9813.8	9753.0
12.5°	8010.8	8081.2	8225.0	8579.8	8995.4	9474.9	9903.3	10191.0	10290.1	10238.9	10133.4
15°	7451.4	7512.2	7620.8	7985.3	8525.5	9254.3	9957.6	10517.0	10769.6	10740.8	10612.9
17.5°	7435.4	7461.0	7528.1	7700.8	8116.3	8909.1	9900.1	10836.7	11319.4	11316.2	11156.4
20°	7716.7	7726.3	7764.7	7799.9	8036.4	8647.0	9753.0	11102.0	11936.3	11936.3	11763.7
22.5°	8106.7	8100.3	8138.7	8106.7	8221.8	8624.6	9660.3	11335.4	12623.6	12674.8	12457.4
25°	8691.7	8659.8	8650.2	8576.6	8599.0	8832.4	9762.6	11600.7	13438.8	13544.3	13272.5
27.5°	9471.7	9420.6	9385.4	9216.0	9158.4	9260.7	10075.9	11920.4	14346.6	14528.8	14183.6
30°	10488.2	10395.5	10344.4	10050.3	9842.5	9858.5	10549.0	12345.5	15296.0	15590.1	15152.2
32.5°	11875.6	11731.7	11594.3	11111.6	10731.2	10606.5	11159.5	12933.7	16325.4	16795.3	16232.6
35°	13429.2	13314.1	13167.1	12422.2	11837.2	11549.5	11984.3	13755.2	17530.5	18275.3	17543.3
37.5°	14925.2	14826.1	14896.4	13892.7	13138.3	12719.5	13064.8	14858.1	19016.9	20116.6	19186.4
40°	16472.4	16395.7	16405.3	15446.3	14567.2	14097.3	14375.4	16242.2	20720.8	22306.3	21161.9
42.5°	18153.8	18096.3	17904.5	17054.2	16066.4	15628.5	15884.2	17840.6	22549.3	24799.7	23329.2
45°	20036.7	20001.5	19822.5	18847.5	17715.9	17223.6	17568.9	19605.1	24387.3	27146.1	25506.2
47.5°	21663.8	21692.5	21670.2	20848.6	19675.5	18953.0	19365.4	21446.4	26097.5	29351.8	27593.6
50°	22447.0	22597.2	22817.8	22562.0	21833.2	21098.0	21177.9	23223.7	27727.8	31420.0	29594.7
52.5°	22037.8	22322.3	22923.3	23332.4	23613.7	23460.3	23246.1	24988.3	29262.2	33286.8	31487.1
55°	20513.0	20912.6	21909.9	22897.7	24333.0	25448.6	25729.9	26944.7	30758.3	34929.9	33277.3
57.5°	17735.1	18384.0	19279.1	21277.0	23693.7	26410.8	28626.1	29658.6	32343.8	36684.9	35150.5
60°	12972.1	13841.5	14954.0	17926.9	21456.0	25896.2	31090.7	33827.1	34597.5	38957.7	37589.5
62.5°	8301.7	8838.8	9861.7	12662.0	16718.5	23258.9	31845.1	39037.6	38417.5	42685.0	41246.5
65°	5683.7	6028.9	6965.5	8538.3	10807.9	17313.1	29824.9	42944.0	44484.7	48592.5	47499.2
67.5°	4130.1	4392.2	5191.4	6569.1	7042.2	10245.3	23143.8	42764.9	50382.6	54678.9	52978.3
70°	3011.3	3196.7	3868.0	5191.4	5418.3	5699.6	14020.6	36352.4	50254.7	56296.4	54260.1
72.5°	2231.3	2359.1	2809.9	4027.8	4385.8	3848.8	6940.0	26420.4	43183.7	50919.6	49286.1
75°	1614.3	1710.2	2042.7	3081.6	3509.9	2931.3	3462.0	15439.9	30122.1	35818.6	36106.3
77.5°	1233.9	1307.4	1524.8	2256.8	2809.9	2199.3	2148.2	7103.0	14282.7	14353.0	15158.6
80°	991.0	1038.9	1157.2	1588.7	2154.6	1646.3	1400.1	2867.4	4513.7	3820.0	4008.6
82.5°	728.8	808.8	978.2	1115.6	1540.8	1134.8	853.5	1448.1	1716.6	1476.9	1489.6
85°	415.6	469.9	591.4	799.2	984.6	693.7	489.1	642.5	799.2	655.3	585.0
87.5°	147.0	191.8	207.8	313.3	428.4	287.7	188.6	185.4	262.1	195.0	163.0
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°	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4	8832.4
2.5°	8896.3	8880.3	8816.4	8730.1	8640.6	8554.3	8525.5	8464.8	8423.2	8400.8	8426.4
5°	9075.3	9024.2	8873.9	8682.1	8480.7	8263.4	8109.9	7969.3	7867.0	7771.1	7809.4
7.5°	9331.1	9241.5	8982.6	8647.0	8288.9	7927.7	7659.2	7454.6	7317.2	7227.7	7246.8
10°	9628.3	9490.9	9094.5	8592.6	8039.6	7521.7	7205.3	7029.5	6943.1	6895.2	6908.0
12.5°	9970.4	9775.4	9209.6	8468.0	7659.2	7067.8	6850.4	6799.3	6802.5	6805.7	6812.1
15°	10392.3	10120.6	9302.3	8196.2	7163.7	6719.4	6681.0	6764.1	6850.4	6892.0	6888.8
17.5°	10868.7	10485.1	9318.3	7748.7	6677.8	6495.6	6617.1	6796.1	6927.2	6984.7	6997.5
20°	11380.1	10855.9	9203.2	7115.8	6278.2	6313.4	6530.8	6760.9	6904.8	6978.3	6997.5
22.5°	11965.1	11252.3	8928.3	6450.9	5952.2	6115.2	6370.9	6594.7	6745.0	6818.5	6837.7
25°	12633.2	11696.6	8496.7	5891.4	5670.9	5891.4	6147.2	6332.6	6454.1	6521.2	6540.4
27.5°	13374.8	12160.1	7921.3	5447.1	5424.7	5661.3	5872.3	6016.1	6080.1	6131.2	6150.4
30°	14119.7	12582.1	7224.5	5111.5	5210.6	5434.3	5584.6	5648.5	5667.7	5677.3	5699.6
32.5°	14925.2	12946.5	6492.4	4833.4	5006.0	5213.8	5303.3	5332.0	5242.5	5181.8	5201.0
35°	15900.2	13336.5	5776.4	4612.8	4804.6	4983.6	5012.4	4986.8	4881.3	4756.6	4763.0
37.5°	17105.3	13822.4	5204.2	4456.1	4616.0	4734.3	4699.1	4692.7	4702.3	4555.2	4564.8
40°	18582.2	14455.3	4785.4	4334.7	4462.5	4488.1	4389.0	4443.4	4491.3	4267.5	4273.9
42.5°	20222.1	15219.3	4520.1	4251.6	4334.7	4273.9	4120.5	4181.2	4174.8	3880.7	3877.6
45°	21893.9	16050.4	4427.4	4190.8	4216.4	4094.9	3925.5	3941.5	3807.2	3541.9	3551.5
47.5°	23556.2	16942.3	4484.9	4139.7	4069.4	3931.9	3800.8	3730.5	3532.3	3334.1	3334.1
50°	25186.5	17878.9	4695.9	4037.4	3868.0	3788.0	3692.1	3567.5	3356.5	3187.1	3174.3
52.5°	26698.5	18821.9	4932.4	3868.0	3615.4	3663.4	3602.6	3458.8	3251.0	3078.4	3081.6
55°	28130.6	19765.0	5025.2	3634.6	3378.9	3554.7	3519.5	3254.2	3004.9	2864.2	2851.4
57.5°	29690.6	20899.8	4922.9	3337.3	3187.1	3430.0	3295.8	3001.7	2857.8	2752.3	2742.7
60°	31851.5	22680.3	4702.3	2969.7	3004.9	3244.6	3014.5	2893.0	2736.3	2618.1	2611.7
62.5°	35441.4	26001.6	4347.5	2605.3	2790.7	2969.7	2880.2	2758.7	2598.9	2483.8	2483.8
65°	40747.9	30617.6	3679.4	2320.8	2550.9	2701.2	2736.3	2614.9	2448.6	2327.2	2333.6
67.5°	45223.2	33513.8	2784.3	2084.2	2304.8	2483.8	2582.9	2464.6	2288.8	2170.5	2173.7
70°	44977.0	31410.4	2125.8	1850.9	2087.4	2269.6	2397.5	2304.8	2116.2	2004.3	2013.9
72.5°	39948.7	26276.6	1719.8	1614.3	1866.9	2045.9	2199.3	2129.0	1937.2	1828.5	1828.5
75°	29348.6	18652.5	1374.6	1374.6	1591.9	1812.5	1981.9	1937.2	1761.4	1684.6	1662.3
77.5°	12371.1	7825.4	1077.3	1141.2	1323.4	1556.8	1767.8	1783.7	1630.3	1726.2	1566.4
80°	3289.4	2157.7	821.5	898.3	1038.9	1285.1	1537.6	1531.2	1365.0	1275.5	1186.0
82.5°	1253.1	850.3	585.0	632.9	751.2	984.6	1217.9	1256.3	1090.1	943.0	943.0
85°	482.7	364.4	361.2	380.4	437.9	652.1	920.6	952.6	821.5	696.9	719.2
87.5°	124.7	108.7	134.3	127.9	201.4	348.4	527.4	546.6	501.9	290.9	415.6
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)