

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: P885307

Luminaire Tested: **NAV-SB6C-740-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885307
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-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48559 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

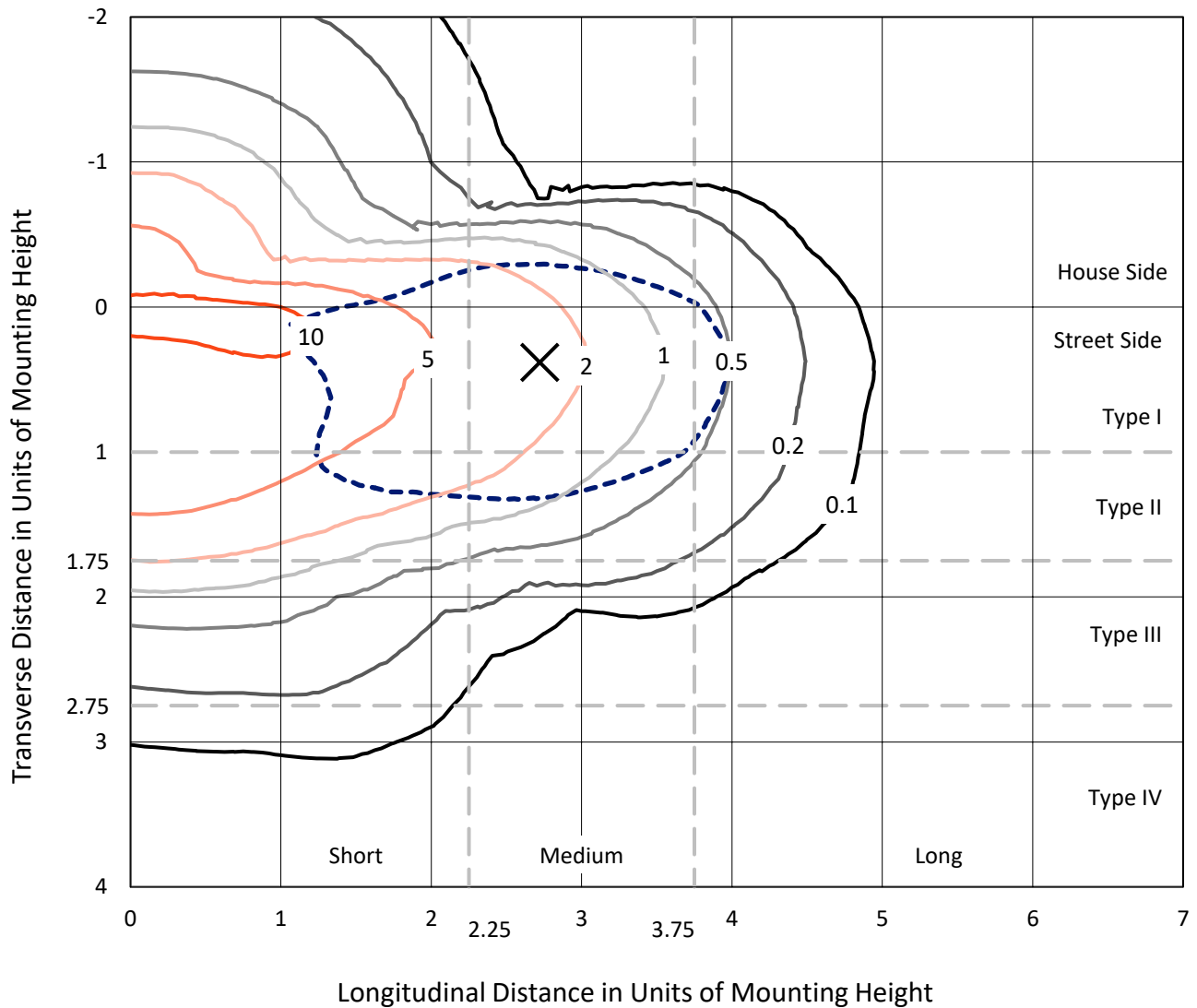
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

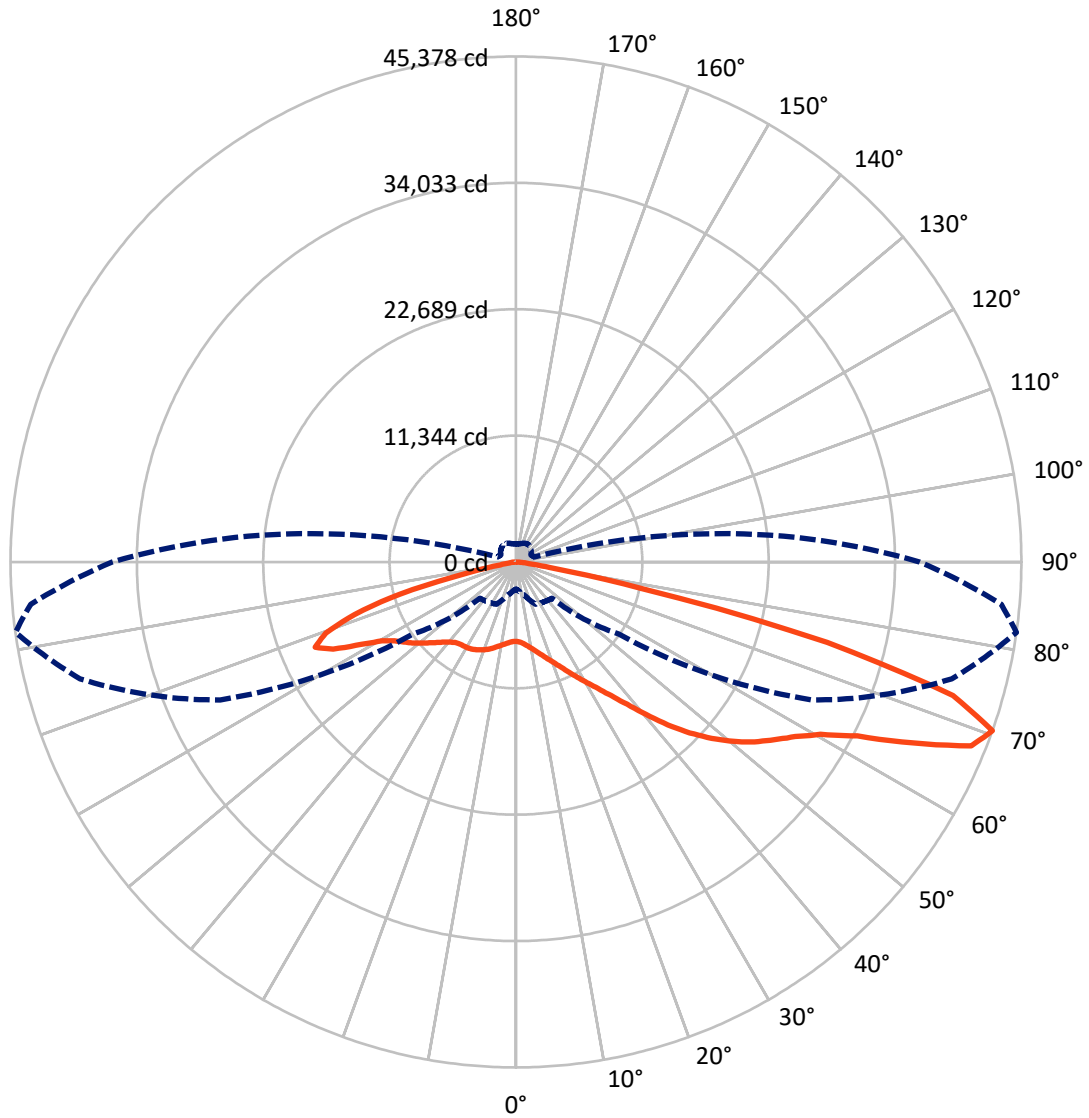
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	11971.0	0.0	11971.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	36588.0	0.0	36588.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	48559.0	0.0	48559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.2	1.4
10°-20°	1931.2	4.0
20°-30°	3230.8	6.7
30°-40°	5047.3	10.4
40°-50°	8038.5	16.6
50°-60°	11186.5	23.0
60°-70°	11701.6	24.1
70°-80°	6115.9	12.6
80°-90°	635.1	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°	48559.0	100.0
0°-180°	48559.0	100.0

Coefficient of Utilization

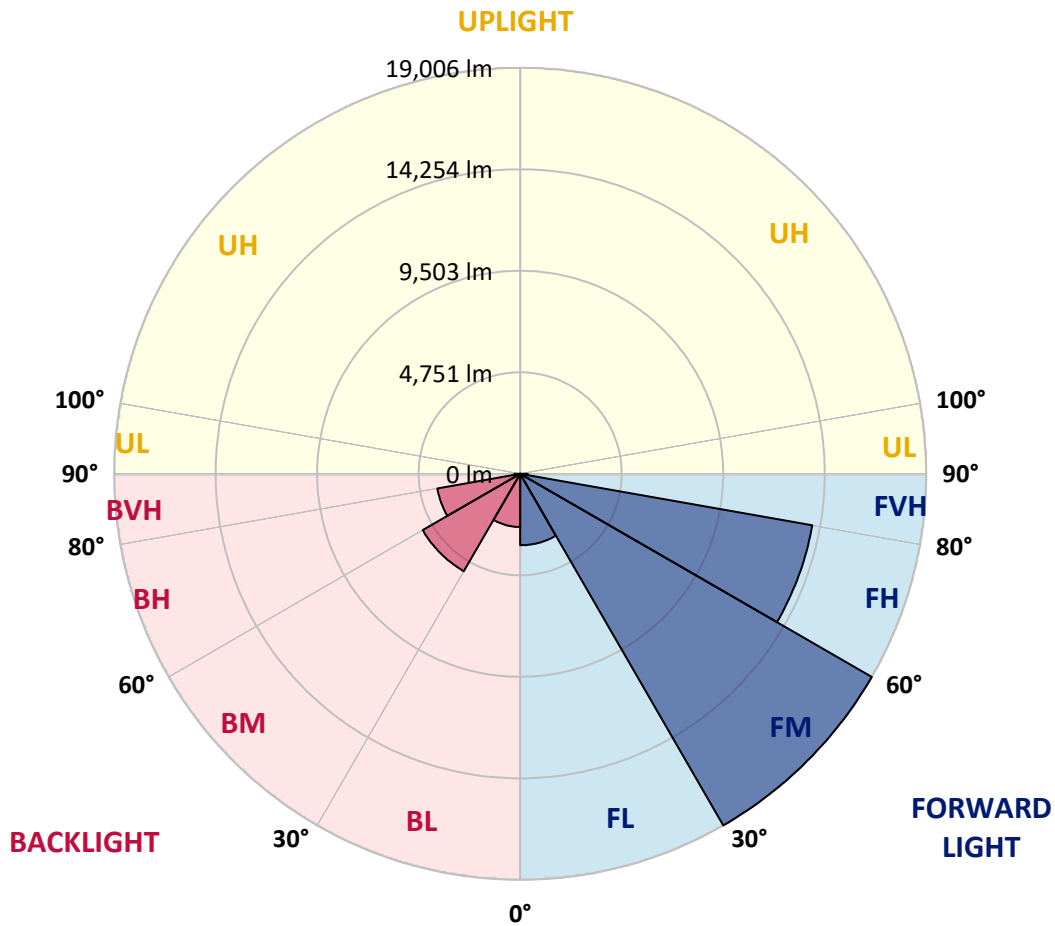


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3343.8	6.9			
FM (30°-60°)	19005.5	39.1			
FH (60°-80°)	13883.2	28.6			G5
FVH (80°-90°)	355.5	0.7			G3/500
BL (0°-30°)	2490.4	5.1	B3/2500		
BM (30°-60°)	5266.8	10.8	B4/8500		
BH (60°-80°)	3934.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	279.5	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°	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4
2.5°	7289.4	7330.6	7317.8	7304.9	7304.9	7286.8	7284.3	7258.5	7237.9	7204.4	7196.7
5°	7382.2	7426.0	7420.8	7431.1	7464.6	7472.4	7480.1	7464.6	7423.4	7382.2	7364.1
7.5°	7299.7	7348.7	7364.1	7426.0	7529.0	7621.8	7691.4	7719.7	7681.1	7621.8	7593.5
10°	7021.4	7075.6	7129.7	7276.5	7459.5	7678.5	7864.0	7974.8	7967.1	7910.4	7861.4
12.5°	6457.2	6513.8	6629.8	6915.8	7250.8	7637.3	7982.5	8214.4	8294.3	8253.1	8168.1
15°	6006.2	6055.2	6142.8	6436.5	6872.0	7459.5	8026.3	8477.3	8680.8	8657.6	8554.6
17.5°	5993.3	6014.0	6068.1	6207.2	6542.2	7181.2	7980.0	8734.9	9124.0	9121.4	8992.6
20°	6220.1	6227.8	6258.7	6287.1	6477.8	6969.9	7861.4	8948.8	9621.3	9621.3	9482.2
22.5°	6534.5	6529.3	6560.2	6534.5	6627.2	6951.9	7786.7	9136.9	10175.3	10216.5	10041.3
25°	7006.0	6980.2	6972.5	6913.2	6931.3	7119.4	7869.2	9350.8	10832.3	10917.4	10698.4
27.5°	7634.7	7593.5	7565.1	7428.6	7382.2	7464.6	8121.7	9608.4	11564.1	11711.0	11432.7
30°	8454.1	8379.4	8338.1	8101.1	7933.6	7946.5	8503.0	9951.1	12329.4	12566.5	12213.4
32.5°	9572.4	9456.4	9345.6	8956.5	8649.9	8549.4	8995.2	10425.2	13159.1	13537.9	13084.4
35°	10824.6	10731.9	10613.3	10013.0	9541.4	9309.5	9660.0	11087.4	14130.5	14730.9	14140.8
37.5°	12030.5	11950.6	12007.3	11198.2	10590.1	10252.6	10530.9	11976.4	15328.6	16215.0	15465.2
40°	13277.6	13215.8	13223.5	12450.5	11741.9	11363.1	11587.3	13092.1	16702.0	17980.0	17057.6
42.5°	14632.9	14586.6	14432.0	13746.6	12950.4	12597.4	12803.5	14380.4	18175.9	19989.9	18804.6
45°	16150.6	16122.3	15978.0	15192.1	14279.9	13883.1	14161.4	15802.8	19657.5	21881.1	20559.3
47.5°	17462.1	17485.3	17467.3	16805.1	15859.4	15277.1	15609.5	17286.9	21036.0	23659.0	22241.9
50°	18093.4	18214.5	18392.3	18186.2	17598.7	17006.1	17070.5	18719.6	22350.1	25326.2	23854.9
52.5°	17763.6	17992.9	18477.3	18807.2	19033.9	18910.2	18737.6	20141.9	23586.9	26830.9	25380.3
55°	16534.5	16856.6	17660.5	18456.7	19613.7	20512.9	20739.7	21718.8	24792.8	28155.3	26823.2
57.5°	14295.4	14818.5	15539.9	17150.4	19098.3	21288.5	23074.1	23906.4	26070.8	29569.9	28333.1
60°	10456.2	11157.0	12053.7	14450.0	17294.7	20873.7	25060.8	27266.4	27887.4	31402.0	30299.1
62.5°	6691.6	7124.5	7949.0	10206.2	13476.0	18747.9	25668.8	31466.4	30966.5	34406.4	33246.9
65°	4581.3	4859.6	5614.6	6882.3	8711.7	13955.3	24040.4	34615.1	35857.0	39168.1	38286.8
67.5°	3329.1	3540.4	4184.5	5295.1	5676.4	8258.2	18655.1	34470.8	40611.0	44074.0	42703.3
70°	2427.2	2576.7	3117.8	4184.5	4367.5	4594.2	11301.3	29302.0	40507.9	45377.8	43736.5
72.5°	1798.5	1901.6	2264.9	3246.6	3535.2	3102.3	5594.0	21296.2	34808.3	41043.9	39727.2
75°	1301.2	1378.5	1646.5	2483.9	2829.2	2362.8	2790.5	12445.3	24280.0	28871.7	29103.6
77.5°	994.6	1053.9	1229.1	1819.1	2264.9	1772.8	1731.5	5725.4	11512.6	11569.3	12218.6
80°	798.8	837.4	932.8	1280.6	1736.7	1327.0	1128.6	2311.3	3638.3	3079.1	3231.2
82.5°	587.5	651.9	788.5	899.3	1242.0	914.7	688.0	1167.2	1383.7	1190.4	1200.7
85°	335.0	378.8	476.7	644.2	793.6	559.1	394.2	517.9	644.2	528.2	471.5
87.5°	118.5	154.6	167.5	252.5	345.3	231.9	152.0	149.4	211.3	157.2	131.4
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°	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4	7119.4
2.5°	7170.9	7158.0	7106.5	7036.9	6964.8	6895.2	6872.0	6823.0	6789.5	6771.5	6792.1
5°	7315.2	7274.0	7152.9	6998.3	6835.9	6660.7	6537.0	6423.7	6341.2	6263.9	6294.8
7.5°	7521.3	7449.2	7240.5	6969.9	6681.3	6390.2	6173.7	6008.8	5898.0	5825.9	5841.3
10°	7760.9	7650.2	7330.6	6926.1	6480.3	6062.9	5807.8	5666.1	5596.5	5557.9	5568.2
12.5°	8036.7	7879.5	7423.4	6825.6	6173.7	5697.0	5521.8	5480.6	5483.2	5485.7	5490.9
15°	8376.8	8157.8	7498.1	6606.6	5774.3	5416.2	5385.3	5452.2	5521.8	5555.3	5552.7
17.5°	8760.7	8451.5	7511.0	6245.9	5382.7	5235.8	5333.7	5478.0	5583.7	5630.0	5640.3
20°	9173.0	8750.4	7418.3	5735.7	5060.6	5088.9	5264.1	5449.7	5565.6	5624.9	5640.3
22.5°	9644.5	9069.9	7196.7	5199.7	4797.8	4929.2	5135.3	5315.7	5436.8	5496.1	5511.5
25°	10183.0	9428.1	6848.8	4748.8	4571.0	4748.8	4954.9	5104.4	5202.3	5256.4	5271.9
27.5°	10780.8	9801.7	6385.0	4390.7	4372.6	4563.3	4733.4	4849.3	4900.8	4942.1	4957.5
30°	11381.2	10141.8	5823.3	4120.1	4200.0	4380.3	4501.5	4553.0	4568.4	4576.2	4594.2
32.5°	12030.5	10435.5	5233.2	3895.9	4035.1	4202.6	4274.7	4297.9	4225.7	4176.8	4192.3
35°	12816.4	10749.9	4656.1	3718.1	3872.7	4017.0	4040.2	4019.6	3934.6	3834.1	3839.2
37.5°	13787.8	11141.5	4194.8	3591.9	3720.7	3816.1	3787.7	3782.6	3790.3	3671.8	3679.5
40°	14978.2	11651.7	3857.3	3494.0	3597.0	3617.7	3537.8	3581.6	3620.2	3439.9	3445.0
42.5°	16300.1	12267.6	3643.4	3427.0	3494.0	3445.0	3321.3	3370.3	3365.1	3128.1	3125.5
45°	17647.7	12937.5	3568.7	3378.0	3398.6	3300.7	3164.2	3177.0	3068.8	2855.0	2862.7
47.5°	18987.5	13656.4	3615.1	3336.8	3280.1	3169.3	3063.7	3007.0	2847.2	2687.5	2687.5
50°	20301.6	14411.4	3785.1	3254.3	3117.8	3053.4	2976.1	2875.6	2705.5	2568.9	2558.6
52.5°	21520.4	15171.5	3975.8	3117.8	2914.2	2952.9	2903.9	2788.0	2620.5	2481.3	2483.9
55°	22674.8	15931.6	4050.5	2929.7	2723.5	2865.3	2836.9	2623.1	2422.1	2308.7	2298.4
57.5°	23932.2	16846.3	3968.1	2690.1	2568.9	2764.8	2656.6	2419.5	2303.5	2218.5	2210.8
60°	25674.0	18281.5	3790.3	2393.7	2422.1	2615.3	2429.8	2331.9	2205.6	2110.3	2105.1
62.5°	28567.6	20958.7	3504.3	2100.0	2249.4	2393.7	2321.6	2223.7	2094.8	2002.1	2002.1
65°	32844.9	24679.4	2965.8	1870.7	2056.2	2177.3	2205.6	2107.7	1973.7	1875.8	1881.0
67.5°	36452.2	27013.9	2244.3	1680.0	1857.8	2002.1	2082.0	1986.6	1844.9	1749.6	1752.1
70°	36253.8	25318.4	1713.5	1491.9	1682.6	1829.4	1932.5	1857.8	1705.8	1615.6	1623.3
72.5°	32200.7	21180.3	1386.3	1301.2	1504.8	1649.1	1772.8	1716.1	1561.5	1473.9	1473.9
75°	23656.5	15034.9	1108.0	1108.0	1283.2	1461.0	1597.5	1561.5	1419.7	1357.9	1339.9
77.5°	9971.7	6307.7	868.3	919.9	1066.7	1254.8	1424.9	1437.8	1314.1	1391.4	1262.6
80°	2651.4	1739.3	662.2	724.0	837.4	1035.8	1239.4	1234.2	1100.2	1028.1	955.9
82.5°	1010.1	685.4	471.5	510.2	605.5	793.6	981.7	1012.6	878.6	760.1	760.1
85°	389.1	293.7	291.2	306.6	353.0	525.6	742.1	767.8	662.2	561.7	579.8
87.5°	100.5	87.6	108.2	103.1	162.3	280.9	425.2	440.6	404.5	234.5	335.0
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)