

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: P885301

Luminaire Tested: **NAV-SB6C-735-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44928 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

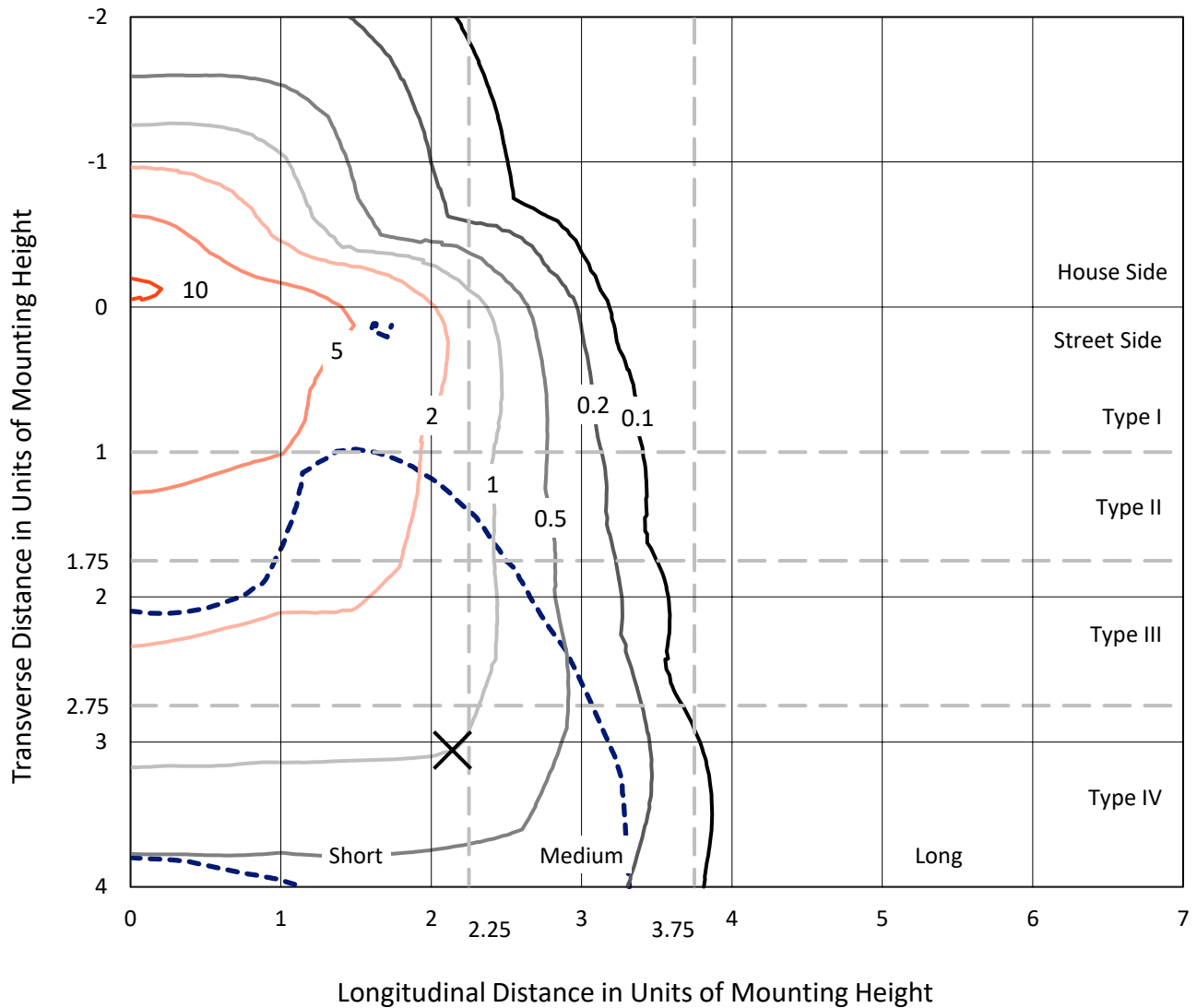
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

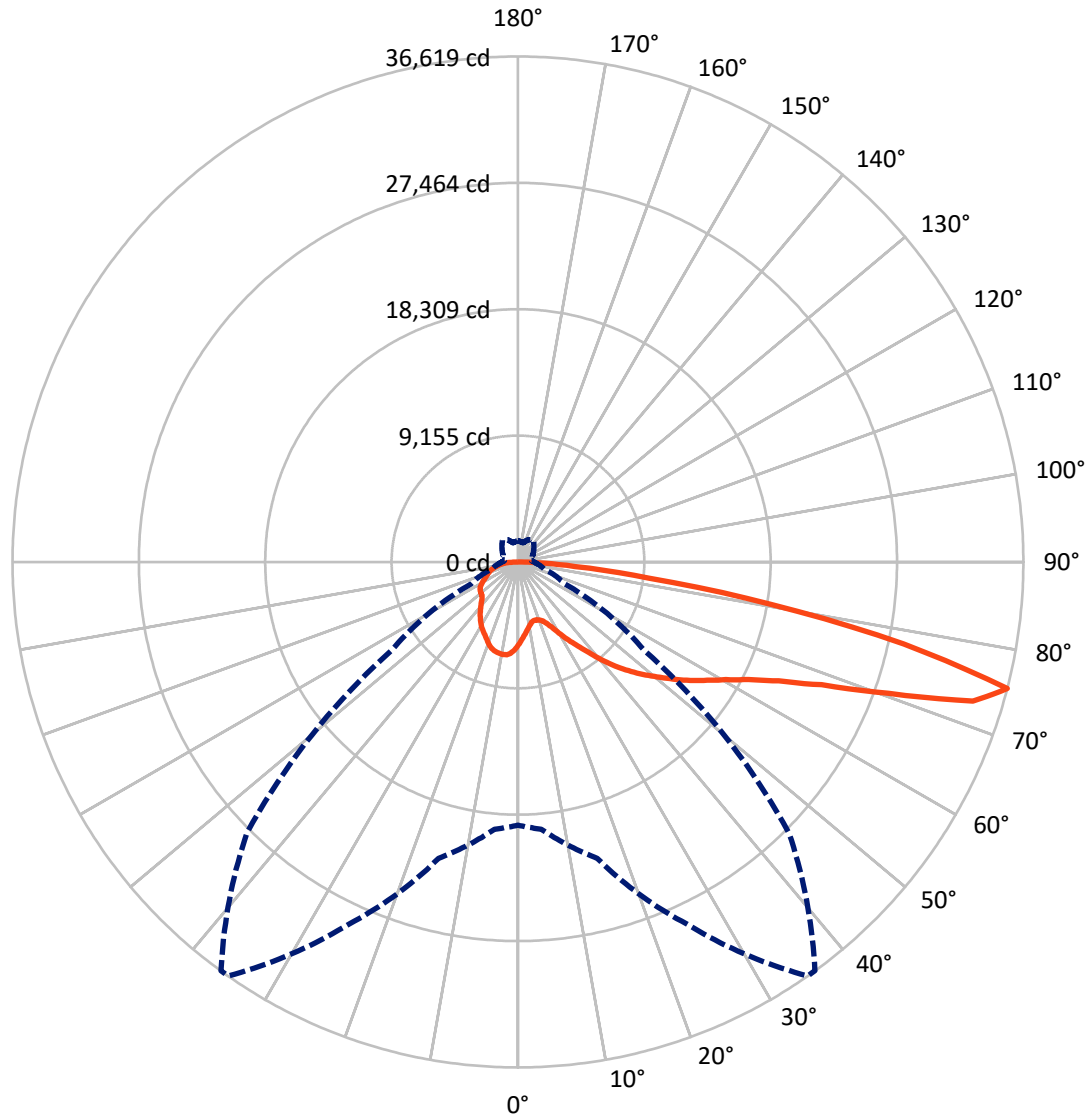
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10691.7	0.0	10691.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	34236.3	0.0	34236.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	44928.0	0.0	44928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.8	1.3
10°-20°	1635.0	3.6
20°-30°	2745.6	6.1
30°-40°	4267.1	9.5
40°-50°	6333.5	14.1
50°-60°	8743.8	19.5
60°-70°	10608.2	23.6
70°-80°	8766.9	19.5
80°-90°	1260.9	2.8
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°	44928.0	100.0
0°-180°	44928.0	100.0

Coefficient of Utilization



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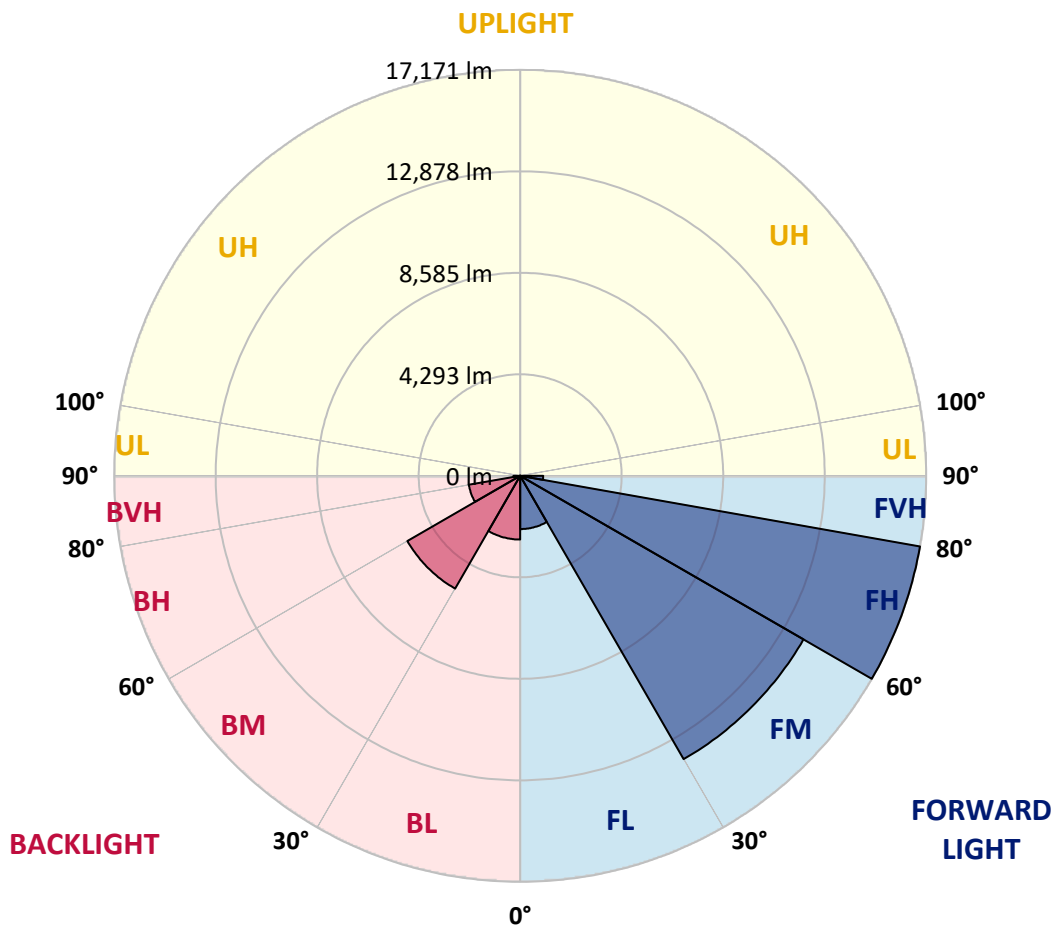
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.1	5.0			
FM (30°-60°)	13835.4	30.8			
FH (60°-80°)	17170.8	38.2			G5
FVH (80°-90°)	977.0	2.2			G5
BL (0°-30°)	2694.5	6.0	B4/5000		
BM (30°-60°)	5509.0	12.3	B4/8500		
BH (60°-80°)	2204.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	283.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0
2.5°	5520.6	5554.6	5569.2	5561.9	5598.4	5593.5	5644.5	5707.6	5795.1	5880.1	6004.0
5°	5095.6	5132.0	5163.6	5192.7	5263.2	5285.0	5365.2	5486.6	5646.9	5809.7	6013.7
7.5°	4699.7	4731.3	4779.9	4833.3	4952.3	4974.2	5107.7	5297.2	5520.6	5758.7	6040.4
10°	4376.7	4408.2	4459.3	4520.0	4668.1	4694.8	4864.9	5117.5	5408.9	5710.1	6069.5
12.5°	4238.2	4247.9	4277.1	4337.8	4466.5	4483.5	4670.6	4959.6	5299.6	5673.6	6113.3
15°	4230.9	4250.4	4252.8	4284.4	4391.2	4398.5	4571.0	4857.6	5231.6	5666.4	6178.8
17.5°	4303.8	4318.4	4296.5	4316.0	4405.8	4418.0	4554.0	4809.0	5209.7	5697.9	6290.6
20°	4498.1	4510.3	4444.7	4418.0	4483.5	4493.3	4626.8	4840.6	5231.6	5763.5	6443.6
22.5°	4911.0	4918.3	4758.0	4648.7	4653.6	4658.4	4775.0	4969.3	5316.6	5882.5	6637.9
25°	5554.6	5549.8	5294.8	5083.5	4962.0	4935.3	5013.0	5178.2	5459.9	6040.4	6888.0
27.5°	6307.6	6271.1	6016.1	5700.4	5435.6	5396.8	5379.8	5450.2	5663.9	6249.3	7194.1
30°	7157.6	7123.6	6849.2	6436.3	6069.5	6006.4	5846.1	5809.7	5967.5	6533.4	7619.1
32.5°	8090.3	8068.4	7740.5	7240.2	6749.6	6676.7	6407.1	6310.0	6433.9	6963.3	8211.7
35°	8872.4	8852.9	8580.9	8066.0	7466.1	7376.2	7101.8	6992.5	7055.6	7514.7	8986.5
37.5°	9579.1	9569.4	9336.3	8930.6	8311.3	8202.0	7893.6	7857.1	7845.0	8240.9	9926.5
40°	10234.9	10210.6	9967.7	9754.0	9295.0	9195.4	8923.4	8891.8	8799.5	9134.7	10990.3
42.5°	10961.1	10898.0	10545.8	10446.2	10322.3	10239.8	10077.0	10081.9	9877.9	10142.6	12117.2
45°	11553.7	11517.3	11155.4	11097.1	11230.7	11196.7	11337.6	11374.0	10978.1	11199.1	13287.9
47.5°	12190.1	12156.1	11850.1	11808.8	12170.7	12180.4	12678.3	12690.4	12051.6	12296.9	14461.0
50°	12974.6	12926.0	12622.4	12673.4	13079.0	13115.4	14026.2	13943.7	13040.2	13411.8	15624.4
52.5°	13491.9	13521.1	13455.5	13538.1	14091.8	14125.8	15352.4	15141.1	14019.0	14512.0	16765.9
55°	13873.2	13931.5	14135.5	14325.0	15160.5	15194.5	16603.2	16280.2	14830.2	15532.1	17839.4
57.5°	14363.8	14281.3	14662.6	15031.8	16175.7	16265.6	17820.0	17378.0	15549.1	16411.3	18575.4
60°	15068.2	15009.9	15306.2	15852.7	17312.4	17455.7	19107.3	18366.5	16076.1	17108.4	18718.7
62.5°	16496.3	16350.6	16396.7	16880.1	18745.4	18934.8	20559.7	19228.7	16338.5	17380.4	17951.2
65°	18631.2	18381.1	18147.9	18483.1	20763.7	20950.7	22199.1	19906.3	16241.3	16853.4	15913.4
67.5°	21319.9	21072.2	20785.6	21101.3	23736.5	23884.7	24222.3	20287.7	15476.2	14822.9	12311.5
70°	23537.4	23445.1	23787.5	25086.9	28484.8	28489.7	26816.2	19971.9	13380.2	10509.4	7123.6
72.5°	23243.5	23187.6	24992.2	29009.4	34469.3	34340.6	29271.7	17582.0	9013.2	4741.0	2669.2
75°	19068.4	19430.3	22225.8	28939.0	36618.8	36601.8	27768.3	11177.3	3728.2	1964.9	1379.6
77.5°	10225.2	10798.4	14429.4	21366.0	28586.8	29016.7	19522.6	3910.3	1600.6	1258.1	954.5
80°	3334.7	3835.1	5751.4	10878.5	18575.4	18495.2	8367.2	1535.0	1095.4	891.4	660.6
82.5°	1416.0	1474.3	2569.7	5136.9	9533.0	9384.8	2664.4	881.6	769.9	609.6	408.0
85°	553.8	619.3	1134.2	2375.4	4128.9	4039.1	961.8	437.2	493.0	398.3	242.9
87.5°	182.2	221.0	405.6	813.6	1284.8	1238.7	235.6	150.6	213.7	182.2	87.4
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°	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0	5987.0
2.5°	6038.0	6076.8	6123.0	6191.0	6249.3	6297.8	6348.8	6380.4	6392.6	6429.0	6426.6
5°	6081.7	6166.7	6280.8	6392.6	6501.9	6567.4	6625.7	6654.9	6681.6	6701.0	6705.9
7.5°	6154.5	6263.8	6443.6	6589.3	6681.6	6735.0	6773.9	6764.2	6773.9	6778.7	6786.0
10°	6217.7	6370.7	6584.4	6722.9	6793.3	6795.7	6786.0	6752.0	6735.0	6737.5	6742.3
12.5°	6293.0	6463.0	6693.7	6810.3	6829.7	6776.3	6735.0	6676.7	6654.9	6645.2	6640.3
15°	6395.0	6589.3	6812.7	6856.5	6807.9	6739.9	6669.4	6574.7	6526.2	6487.3	6499.4
17.5°	6518.9	6732.6	6905.0	6873.5	6769.0	6657.3	6543.2	6399.9	6300.3	6259.0	6261.4
20°	6691.3	6883.2	6975.5	6837.0	6679.2	6509.1	6314.8	6140.0	6047.7	6006.4	6001.5
22.5°	6900.2	7084.8	7043.5	6773.9	6550.4	6278.4	6035.5	5906.8	5860.7	5831.5	5836.4
25°	7150.3	7308.2	7092.1	6681.6	6339.1	5972.4	5785.4	5744.1	5722.2	5700.4	5700.4
27.5°	7475.8	7560.8	7128.5	6545.6	6008.8	5646.9	5578.9	5586.2	5578.9	5542.5	5549.8
30°	7905.7	7888.7	7162.5	6324.6	5629.9	5353.0	5357.9	5389.5	5394.3	5370.0	5382.2
32.5°	8471.6	8299.2	7179.5	6038.0	5268.0	5095.6	5100.5	5134.5	5158.7	5117.5	5136.9
35°	9156.5	8777.6	7152.8	5678.5	4988.7	4850.3	4813.9	4823.6	4830.9	4792.0	4818.7
37.5°	9955.6	9314.4	7033.8	5280.2	4758.0	4609.8	4532.1	4466.5	4427.7	4391.2	4415.5
40°	10832.4	9899.7	6815.2	4891.6	4500.5	4354.8	4238.2	4114.4	3983.2	3934.6	3956.5
42.5°	11750.5	10502.1	6550.4	4520.0	4204.2	4085.2	3961.4	3781.6	3584.9	3485.3	3497.5
45°	12702.6	11119.0	6290.6	4153.2	3900.6	3849.6	3706.3	3490.2	3276.4	3150.1	3140.4
47.5°	13635.2	11701.9	5909.2	3784.1	3616.5	3672.3	3560.6	3361.4	3123.4	2924.3	2902.4
50°	14526.6	12248.4	5285.0	3410.0	3385.7	3618.9	3512.0	3225.4	2953.4	2698.4	2676.5
52.5°	15410.7	12690.4	4486.0	3070.0	3261.9	3604.3	3448.9	3133.1	2800.4	2533.2	2504.1
55°	16161.1	12918.7	3716.0	2778.5	3082.1	3480.5	3373.6	3023.8	2584.2	2300.1	2275.8
57.5°	16588.6	12734.1	3074.8	2491.9	2834.4	3276.4	3244.9	2790.7	2326.8	2108.2	2079.0
60°	16404.0	11986.1	2550.2	2241.8	2598.8	3055.4	3021.4	2559.9	2130.0	1923.6	1894.5
62.5°	15386.4	10560.4	2134.9	2023.2	2385.1	2829.5	2798.0	2382.6	1979.5	1780.3	1748.7
65°	13336.5	8590.6	1811.9	1841.0	2168.9	2557.5	2603.7	2234.5	1860.5	1666.1	1634.6
67.5°	10171.8	6222.6	1559.3	1683.1	1957.6	2290.3	2423.9	2127.6	1760.9	1576.3	1547.1
70°	5797.5	3533.9	1345.5	1530.1	1770.6	2042.6	2285.5	2042.6	1654.0	1501.0	1481.6
72.5°	2198.1	1622.4	1163.4	1377.1	1590.9	1833.7	2132.5	1909.0	1530.1	1416.0	1396.6
75°	1173.1	988.5	978.8	1197.4	1384.4	1629.7	1940.6	1777.9	1437.8	1496.1	1544.7
77.5°	799.1	699.5	818.5	1024.9	1158.5	1403.8	1736.6	1578.7	1246.0	1241.1	1144.0
80°	553.8	495.5	665.5	825.8	896.2	1180.4	1515.6	1355.3	1015.2	947.2	905.9
82.5°	332.7	323.0	497.9	616.9	633.9	910.8	1255.7	1136.7	830.6	723.8	728.6
85°	182.2	191.9	318.2	361.9	369.2	636.3	983.7	879.2	638.8	536.8	541.6
87.5°	51.0	65.6	116.6	143.3	177.3	330.3	585.3	522.2	320.6	223.4	223.4
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)