

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: P971361

Luminaire Tested: **NAV-SB6D-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58129.8 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

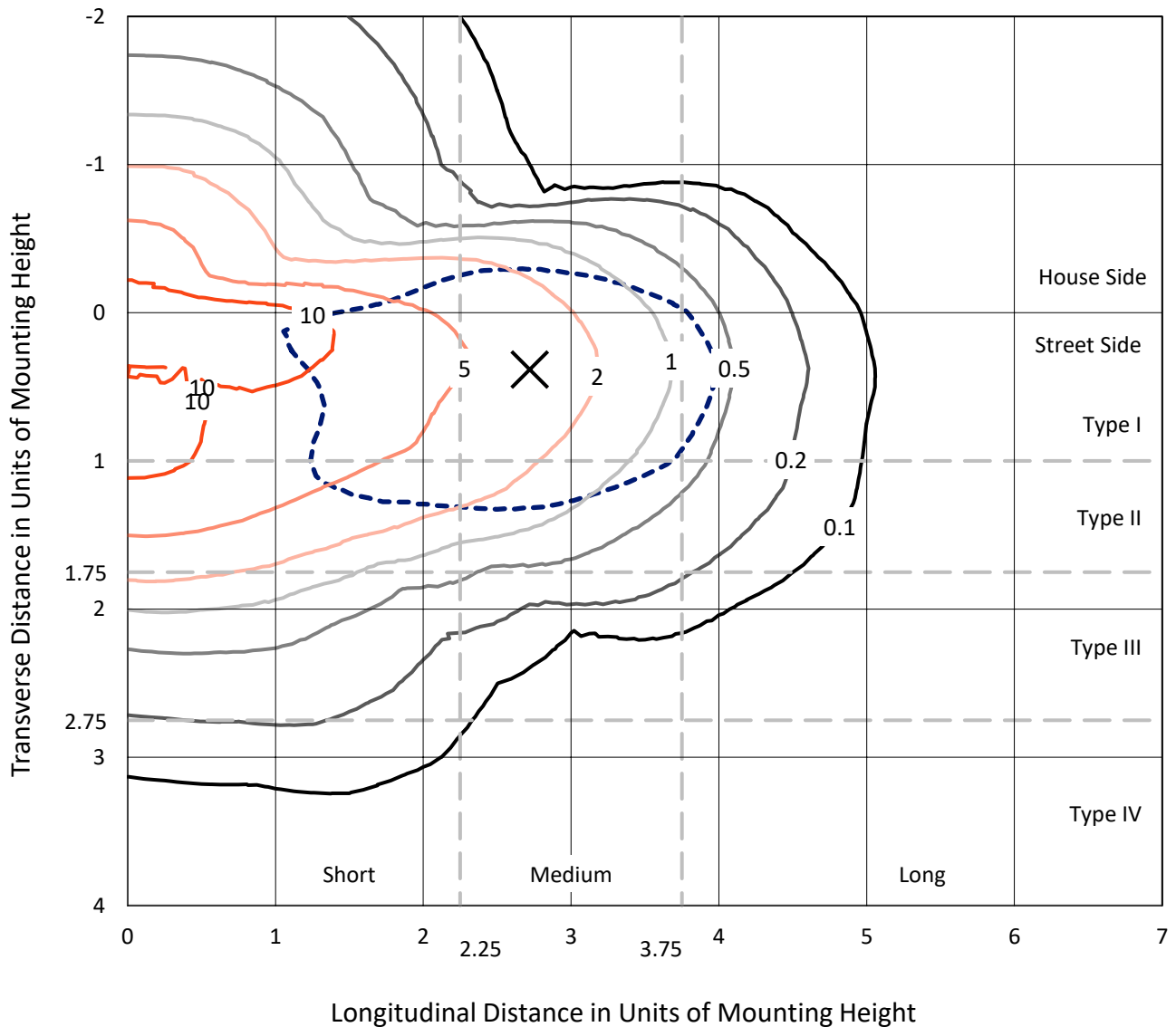
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

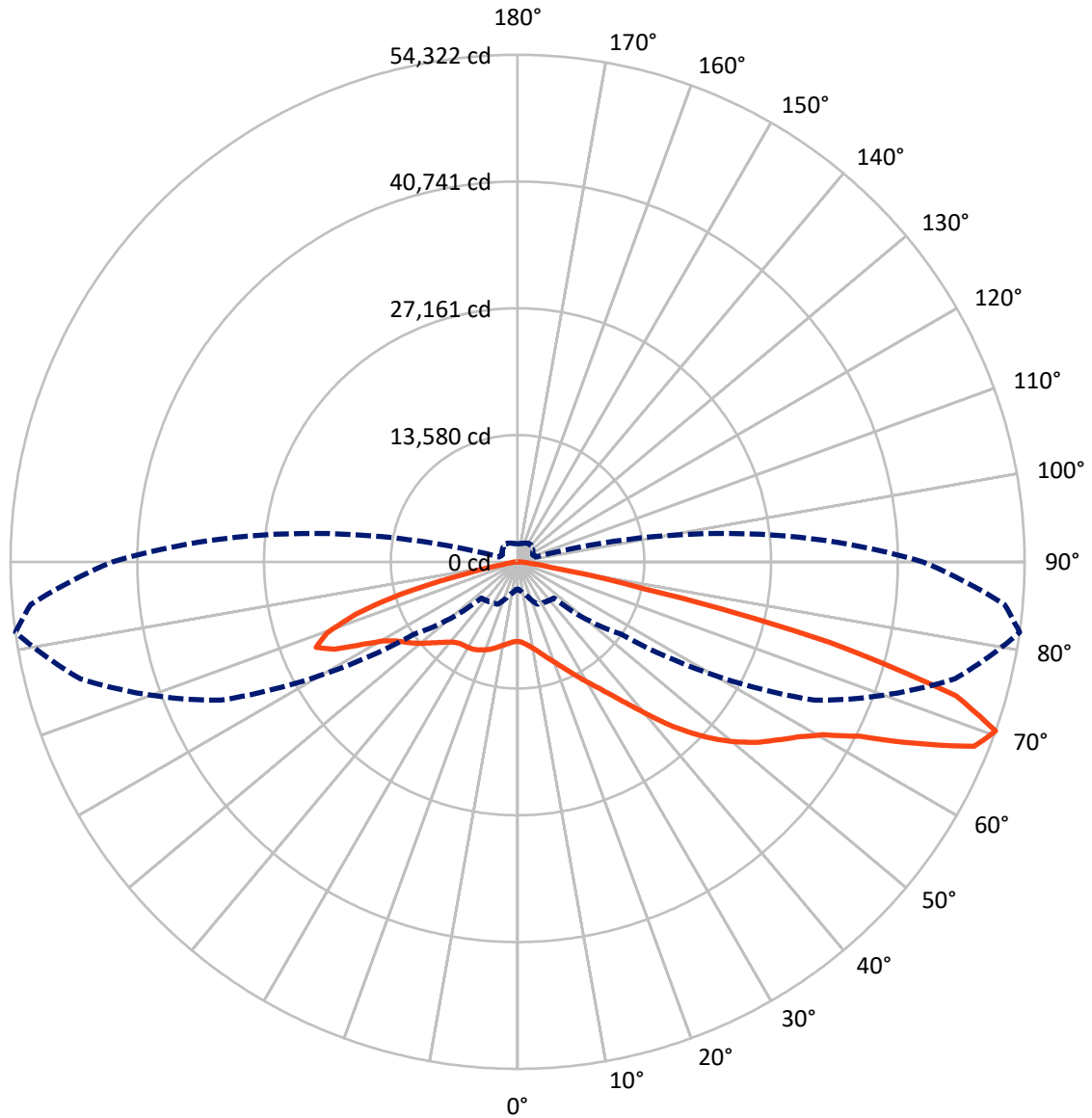
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	14330.4	0.0	14330.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	43799.4	0.0	43799.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	58129.8	0.0	58129.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.7	1.4
10°-20°	2311.9	4.0
20°-30°	3867.6	6.7
30°-40°	6042.1	10.4
40°-50°	9622.8	16.6
50°-60°	13391.3	23.0
60°-70°	14007.9	24.1
70°-80°	7321.3	12.6
80°-90°	760.2	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°	58129.8	100.0
0°-180°	58129.8	100.0

Coefficient of Utilization

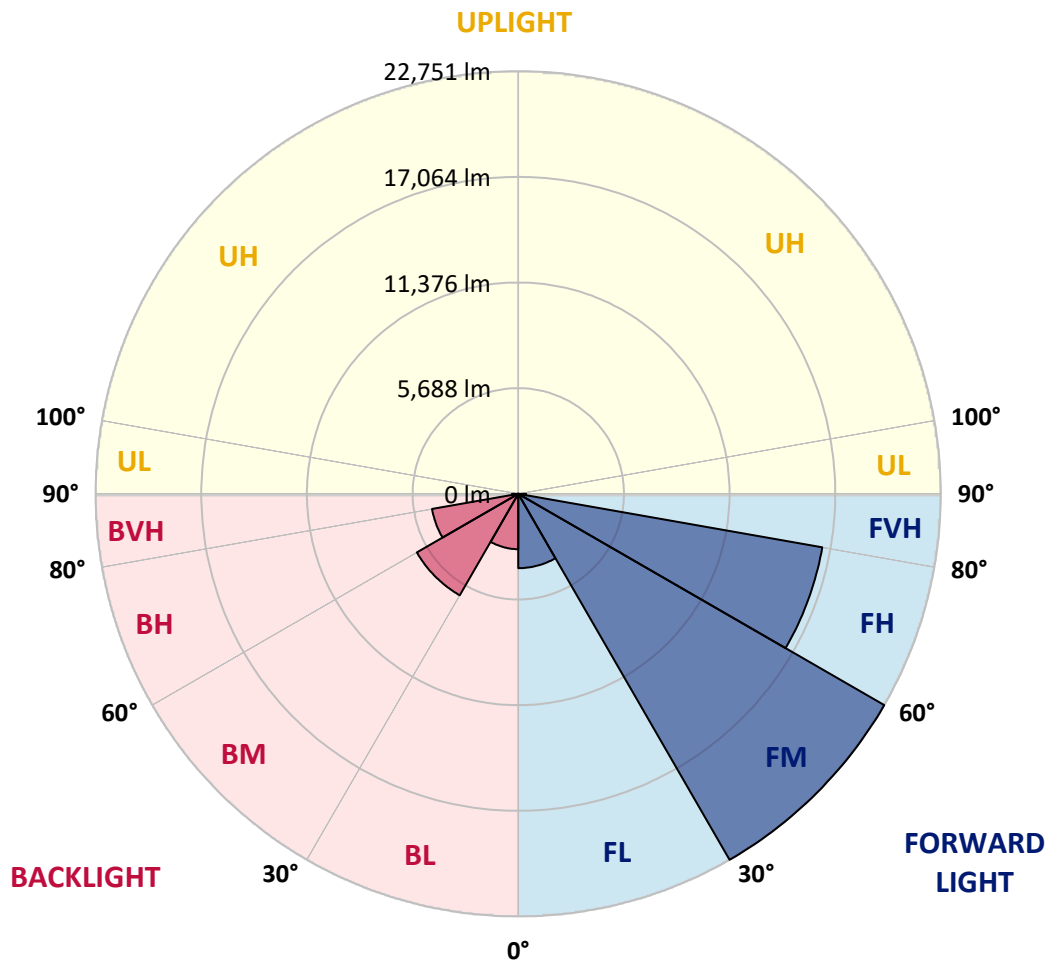


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4002.9	6.9			
FM (30°-60°)	22751.4	39.1			
FH (60°-80°)	16619.5	28.6			G5
FVH (80°-90°)	425.6	0.7			G3/500
BL (0°-30°)	2981.3	5.1	B4/5000		
BM (30°-60°)	6304.8	10.8	B4/8500		
BH (60°-80°)	4709.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	334.7	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-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6
2.5°	8726.1	8775.5	8760.1	8744.7	8744.7	8723.1	8720.0	8689.1	8664.4	8624.3	8615.1
5°	8837.1	8889.6	8883.5	8895.8	8935.8	8945.2	8954.4	8935.8	8886.5	8837.1	8815.6
7.5°	8738.4	8797.1	8815.6	8889.6	9013.0	9124.0	9207.4	9241.3	9195.0	9124.0	9090.1
10°	8405.3	8470.1	8534.9	8710.8	8929.7	9191.9	9414.0	9546.6	9537.3	9469.5	9410.9
12.5°	7729.8	7797.7	7936.5	8278.9	8679.9	9142.6	9555.9	9833.4	9929.1	9879.8	9778.0
15°	7190.1	7248.6	7353.6	7705.1	8226.4	8929.7	9608.3	10148.1	10391.8	10364.0	10240.7
17.5°	7174.6	7199.3	7264.1	7430.6	7831.6	8596.6	9552.8	10456.5	10922.3	10919.2	10765.0
20°	7446.0	7455.3	7492.3	7526.3	7754.5	8343.6	9410.9	10712.6	11517.6	11517.6	11351.1
22.5°	7822.4	7816.2	7853.2	7822.4	7933.4	8322.1	9321.5	10937.8	12180.8	12230.2	12020.4
25°	8386.9	8356.0	8346.8	8275.7	8297.4	8522.6	9420.2	11193.7	12967.4	13069.2	12807.0
27.5°	9139.4	9090.1	9056.2	8892.7	8837.1	8935.8	9722.4	11502.2	13843.3	14019.2	13686.1
30°	10120.3	10030.9	9981.6	9697.7	9497.2	9512.7	10179.0	11912.4	14759.5	15043.2	14620.7
32.5°	11459.0	11320.2	11187.6	10721.8	10354.8	10234.4	10768.1	12480.0	15752.7	16206.1	15663.2
35°	12958.2	12847.0	12705.2	11986.5	11422.0	11144.4	11563.9	13272.7	16915.6	17634.3	16927.9
37.5°	14401.7	14306.0	14373.9	13405.4	12677.4	12273.3	12606.5	14336.9	18349.9	19410.9	18513.3
40°	15894.6	15820.6	15829.8	14904.4	14056.2	13602.8	13871.1	15672.5	19994.0	21523.9	20419.5
42.5°	17517.0	17461.5	17276.5	16456.0	15502.8	15080.3	15327.0	17214.8	21758.3	23929.8	22510.9
45°	19333.9	19299.9	19127.2	18186.4	17094.4	16619.5	16952.6	18917.4	23531.8	26193.9	24611.5
47.5°	20903.8	20931.6	20910.0	20117.3	18985.3	18288.2	18686.1	20694.1	25182.1	28322.2	26625.7
50°	21659.6	21804.5	22017.4	21770.6	21067.3	20357.9	20435.0	22409.1	26755.2	30317.9	28556.6
52.5°	21264.8	21539.2	22119.2	22514.0	22785.4	22637.3	22430.7	24111.8	28235.8	32119.2	30382.6
55°	19793.5	20179.0	21141.3	22094.5	23479.5	24555.9	24827.3	25999.5	29679.4	33704.7	32110.0
57.5°	17113.0	17739.2	18602.8	20530.6	22862.5	25484.4	27622.0	28618.3	31209.3	35398.1	33917.5
60°	12517.0	13356.1	14429.4	17298.0	20703.4	24987.8	30000.1	32640.5	33383.8	37591.2	36271.0
62.5°	8010.5	8528.7	9515.8	12217.8	16132.1	22443.0	30728.1	37668.2	37069.8	41187.7	39799.7
65°	5484.3	5817.4	6721.2	8238.7	10428.8	16705.9	28778.6	41437.6	42924.3	46887.9	45833.0
67.5°	3985.2	4238.2	5009.3	6338.7	6795.2	9885.9	22332.0	41264.9	48615.2	52760.8	51119.9
70°	2905.7	3084.5	3732.2	5009.3	5228.3	5499.7	13528.8	35077.2	48491.9	54321.6	52356.8
72.5°	2153.0	2276.4	2711.3	3886.5	4232.0	3713.8	6696.5	25493.6	41668.9	49133.5	47557.2
75°	1557.7	1650.2	1971.0	2973.5	3386.8	2828.5	3340.6	14898.3	29065.5	34562.2	34839.8
77.5°	1190.6	1261.6	1471.3	2177.7	2711.3	2122.2	2072.8	6853.9	13781.6	13849.5	14626.9
80°	956.2	1002.4	1116.6	1533.0	2079.0	1588.5	1351.1	2766.8	4355.3	3686.0	3868.0
82.5°	703.3	780.4	943.8	1076.5	1486.8	1095.0	823.6	1397.3	1656.4	1425.1	1437.4
85°	401.0	453.5	570.6	771.1	950.1	669.3	471.9	620.0	771.1	632.3	564.5
87.5°	141.9	185.1	200.5	302.3	413.3	277.6	181.9	178.9	253.0	188.2	157.3
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°	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6	8522.6
2.5°	8584.3	8568.8	8507.1	8423.9	8337.5	8254.2	8226.4	8167.8	8127.7	8106.1	8130.8
5°	8757.0	8707.6	8562.6	8377.6	8183.3	7973.5	7825.5	7689.8	7591.0	7498.5	7535.5
7.5°	9003.7	8917.4	8667.5	8343.6	7998.2	7649.7	7390.6	7193.1	7060.5	6974.1	6992.7
10°	9290.6	9158.0	8775.5	8291.2	7757.6	7257.9	6952.6	6782.8	6699.6	6653.4	6665.7
12.5°	9620.6	9432.5	8886.5	8170.9	7390.6	6819.9	6610.1	6560.8	6563.9	6567.0	6573.1
15°	10027.8	9765.6	8976.0	7908.7	6912.4	6483.6	6446.6	6526.9	6610.1	6650.2	6647.1
17.5°	10487.4	10117.3	8991.4	7476.9	6443.6	6267.8	6384.9	6557.7	6684.1	6739.7	6752.1
20°	10980.9	10475.1	8880.4	6866.2	6058.1	6092.0	6301.7	6523.8	6662.6	6733.5	6752.1
22.5°	11545.4	10857.5	8615.1	6224.6	5743.4	5900.7	6147.4	6363.4	6508.3	6579.3	6597.8
25°	12190.0	11286.3	8198.7	5684.8	5472.0	5684.8	5931.6	6110.4	6227.7	6292.5	6310.9
27.5°	12905.7	11733.6	7643.4	5256.0	5234.5	5462.7	5666.3	5805.1	5866.8	5916.1	5934.6
30°	13624.4	12140.7	6971.0	4932.2	5027.8	5243.7	5388.6	5450.3	5468.9	5478.1	5499.7
32.5°	14401.7	12492.4	6264.7	4663.9	4830.4	5030.9	5117.2	5145.0	5058.6	5000.1	5018.5
35°	15342.4	12868.7	5573.7	4451.0	4636.1	4808.8	4836.6	4811.9	4710.1	4589.7	4596.0
37.5°	16505.3	13337.5	5021.6	4299.9	4454.0	4568.2	4534.3	4528.0	4537.4	4395.4	4404.7
40°	17930.3	13948.2	4617.5	4182.6	4306.0	4330.7	4235.1	4287.5	4333.8	4117.8	4124.0
42.5°	19512.7	14685.5	4361.5	4102.5	4182.6	4124.0	3976.0	4034.6	4028.4	3744.6	3741.6
45°	21126.0	15487.4	4272.1	4043.8	4068.5	3951.3	3787.8	3803.3	3673.7	3417.7	3426.9
47.5°	22729.9	16348.0	4327.5	3994.4	3926.6	3793.9	3667.6	3599.6	3408.4	3217.2	3217.2
50°	24303.1	17251.8	4531.2	3895.7	3732.2	3655.2	3562.6	3442.4	3238.8	3075.3	3062.9
52.5°	25762.0	18161.7	4759.4	3732.2	3488.6	3534.9	3476.3	3337.5	3137.0	2970.4	2973.5
55°	27143.8	19071.7	4848.9	3507.1	3260.3	3430.0	3396.0	3140.1	2899.4	2763.7	2751.4
57.5°	28649.2	20166.7	4750.2	3220.2	3075.3	3309.7	3180.2	2896.3	2757.6	2655.8	2646.5
60°	30734.2	21884.8	4537.4	2865.5	2899.4	3130.8	2908.7	2791.5	2640.4	2526.2	2520.1
62.5°	34198.2	25089.5	4194.9	2513.9	2692.8	2865.5	2779.2	2661.9	2507.8	2396.7	2396.7
65°	39318.5	29543.6	3550.3	2239.3	2461.4	2606.5	2640.4	2523.1	2362.7	2245.6	2251.7
67.5°	43636.8	32338.2	2686.6	2011.2	2223.9	2396.7	2492.3	2378.2	2208.6	2094.4	2097.5
70°	43399.3	30308.6	2051.2	1786.0	2014.2	2190.0	2313.4	2223.9	2042.0	1934.0	1943.3
72.5°	38547.4	25354.8	1659.5	1557.7	1801.3	1974.2	2122.2	2054.3	1869.2	1764.3	1764.3
75°	28319.1	17998.2	1326.4	1326.4	1536.1	1749.0	1912.4	1869.2	1699.6	1625.5	1603.9
77.5°	11937.2	7551.0	1039.5	1101.2	1276.9	1502.1	1705.7	1721.2	1573.1	1665.6	1511.5
80°	3174.0	2082.1	792.7	866.7	1002.4	1239.9	1483.7	1477.5	1317.1	1230.7	1144.3
82.5°	1209.1	820.5	564.5	610.7	724.9	950.1	1175.2	1212.3	1051.9	909.9	909.9
85°	465.8	351.7	348.6	367.1	422.6	629.2	888.4	919.2	792.7	672.4	694.0
87.5°	120.3	104.9	129.6	123.4	194.3	336.2	508.9	527.5	484.3	280.6	401.0
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)