

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: P969222

Luminaire Tested: **NAV-SB5D-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969222
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-SB5D-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43126.9 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

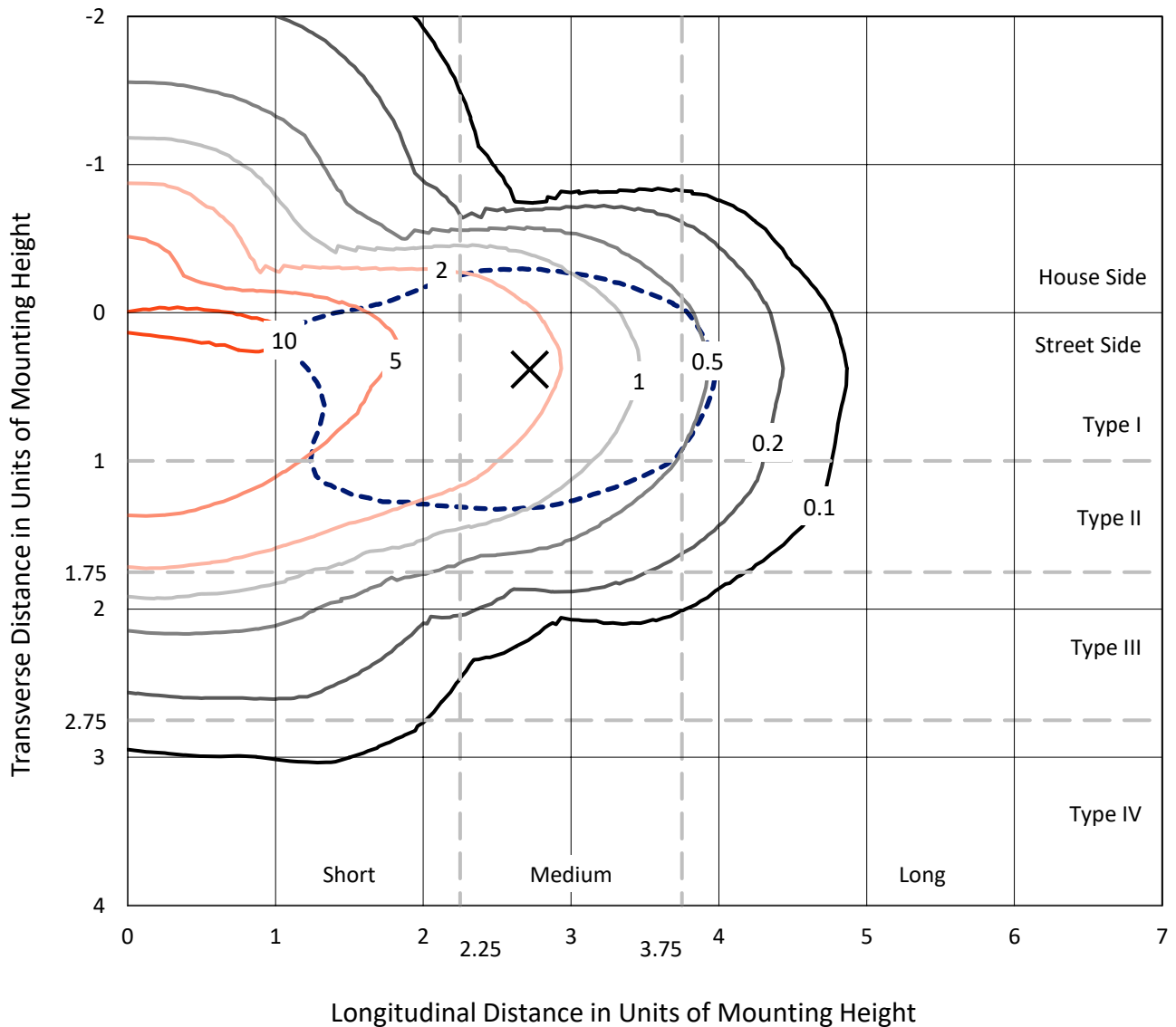
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

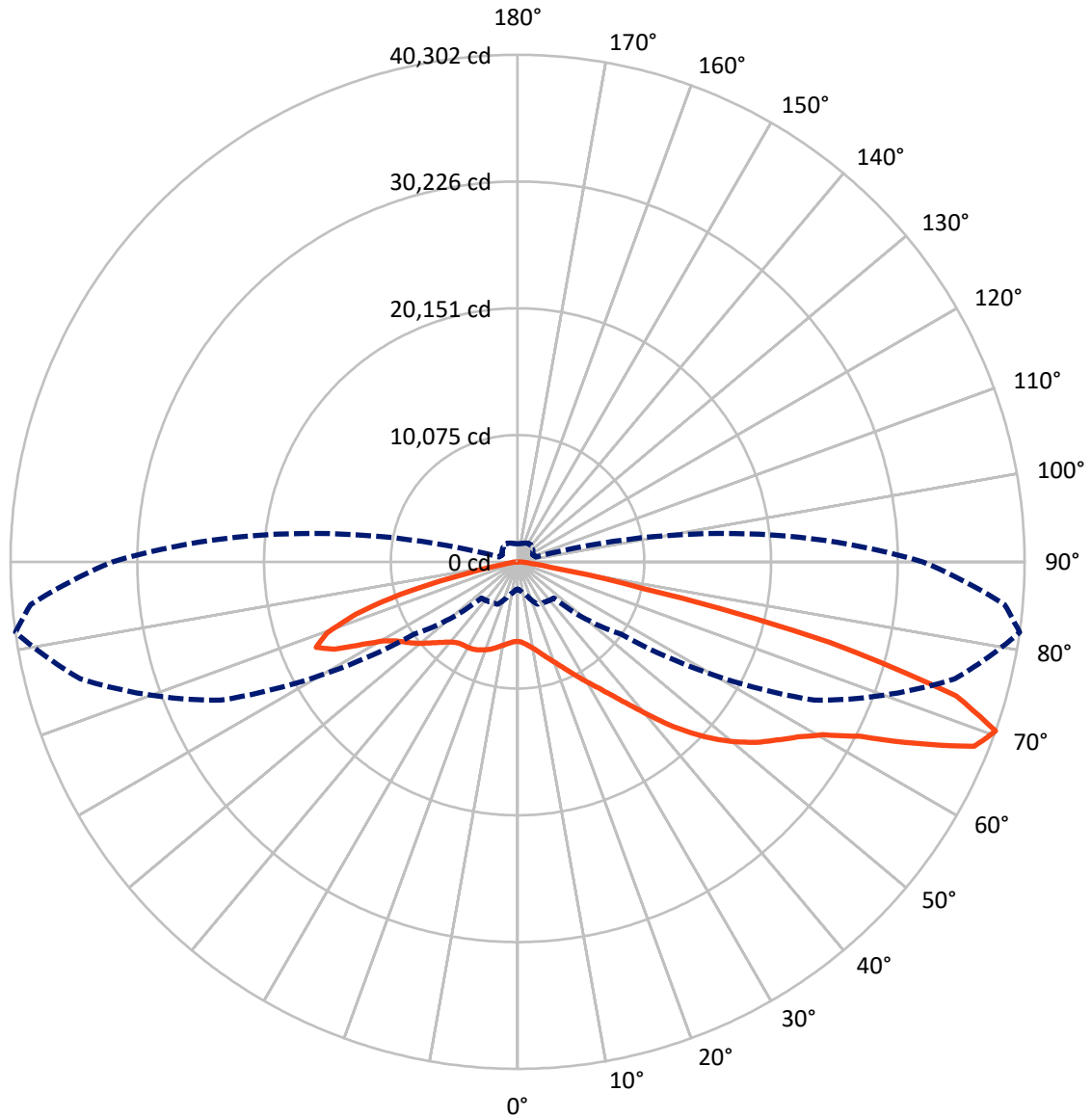
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	10631.8	0.0	10631.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	32495.0	0.0	32495.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	43126.9	0.0	43126.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.0	1.4
10°-20°	1715.2	4.0
20°-30°	2869.4	6.7
30°-40°	4482.7	10.4
40°-50°	7139.2	16.6
50°-60°	9935.1	23.0
60°-70°	10392.6	24.1
70°-80°	5431.7	12.6
80°-90°	564.0	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°	43126.9	100.0
0°-180°	43126.9	100.0

Coefficient of Utilization

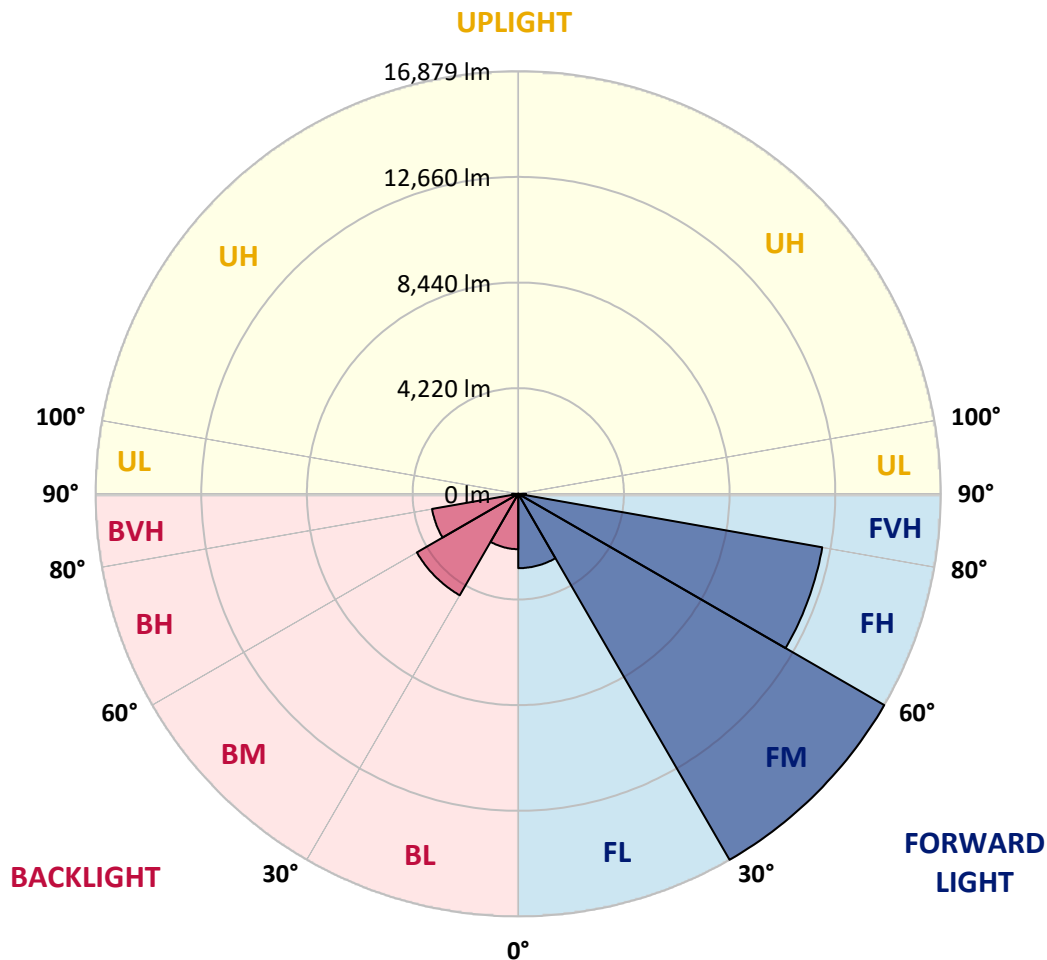


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2969.8	6.9			
FM (30°-60°)	16879.4	39.1			
FH (60°-80°)	12330.1	28.6			G5
FVH (80°-90°)	315.7	0.7			G3/500
BL (0°-30°)	2211.8	5.1	B3/2500		
BM (30°-60°)	4677.6	10.8	B3/5000		
BH (60°-80°)	3494.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	248.3	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°	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9
2.5°	6474.0	6510.6	6499.1	6487.7	6487.7	6471.6	6469.4	6446.5	6428.2	6398.5	6391.6
5°	6556.3	6595.3	6590.6	6599.9	6629.6	6636.5	6643.3	6629.6	6593.0	6556.3	6540.3
7.5°	6483.1	6526.6	6540.3	6595.3	6686.8	6769.2	6831.0	6856.1	6821.8	6769.2	6744.0
10°	6236.0	6284.1	6332.1	6462.5	6625.0	6819.5	6984.2	7082.7	7075.9	7025.5	6982.0
12.5°	5734.8	5785.2	5888.1	6142.1	6439.7	6782.9	7089.5	7295.5	7366.5	7329.9	7254.3
15°	5334.3	5377.9	5455.7	5716.5	6103.3	6625.0	7128.5	7528.9	7709.7	7689.1	7597.6
17.5°	5322.9	5341.2	5389.2	5512.9	5810.3	6377.9	7087.3	7757.8	8103.3	8101.1	7986.6
20°	5524.2	5531.1	5558.6	5583.8	5753.1	6190.2	6982.0	7947.7	8545.0	8545.0	8421.4
22.5°	5803.4	5798.9	5826.3	5803.4	5885.9	6174.2	6915.7	8114.8	9037.0	9073.6	8918.0
25°	6222.3	6199.4	6192.5	6139.9	6155.8	6322.9	6988.9	8304.8	9620.5	9696.1	9501.5
27.5°	6780.6	6744.0	6718.9	6597.5	6556.3	6629.6	7213.1	8533.5	10270.5	10400.9	10153.8
30°	7508.3	7442.0	7405.3	7194.8	7046.1	7057.5	7551.8	8838.0	10950.2	11160.7	10847.2
32.5°	8501.6	8398.5	8300.1	7954.6	7682.3	7593.0	7989.0	9259.0	11687.0	12023.5	11620.6
35°	9613.7	9531.4	9426.0	8892.9	8474.1	8268.1	8579.4	9847.2	12549.8	13083.0	12558.9
37.5°	10684.7	10613.8	10664.1	9945.6	9405.5	9105.7	9352.8	10636.6	13613.8	14401.1	13735.2
40°	11792.3	11737.4	11744.2	11057.7	10428.3	10091.9	10291.1	11627.5	14833.6	15968.7	15149.4
42.5°	12996.0	12954.8	12817.5	12208.8	11501.6	11188.2	11371.2	12771.7	16142.6	17753.6	16700.9
45°	14343.8	14318.7	14190.6	13492.6	12682.5	12330.0	12577.3	14034.9	17458.4	19433.4	18259.5
47.5°	15508.7	15529.3	15513.3	14925.1	14085.3	13568.1	13863.3	15353.1	18682.8	21012.4	19753.8
50°	16069.3	16177.0	16334.8	16151.7	15630.0	15103.7	15160.9	16625.5	19849.8	22493.0	21186.3
52.5°	15776.5	15980.2	16410.4	16703.3	16904.6	16794.8	16641.5	17888.7	20948.3	23829.4	22541.1
55°	14684.9	14970.9	15685.0	16392.0	17419.6	18218.2	18419.6	19289.2	22019.3	25005.7	23822.5
57.5°	12696.3	13160.8	13801.5	15231.8	16961.9	18907.0	20492.9	21232.1	23154.3	26262.0	25163.6
60°	9286.5	9908.9	10705.3	12833.5	15359.9	18538.6	22257.3	24216.2	24767.7	27889.1	26909.6
62.5°	5943.1	6327.5	7059.8	9064.5	11968.5	16650.6	22797.3	27946.3	27502.4	30557.4	29527.7
65°	4068.8	4316.0	4986.5	6112.4	7737.2	12394.2	21351.1	30742.8	31845.8	34786.4	34003.9
67.5°	2956.6	3144.3	3716.4	4702.7	5041.5	7334.4	16568.2	30614.7	36068.0	39143.6	37926.2
70°	2155.7	2288.4	2769.0	3716.4	3878.9	4080.3	10037.1	26024.0	35976.5	40301.6	38843.8
72.5°	1597.4	1688.9	2011.6	2883.4	3139.8	2755.3	4968.2	18913.9	30914.4	36452.5	35283.1
75°	1155.7	1224.4	1462.3	2206.0	2512.7	2098.5	2478.3	11053.1	21563.9	25641.9	25847.8
77.5°	883.3	935.9	1091.6	1615.6	2011.6	1574.4	1537.8	5084.9	10224.7	10275.1	10851.8
80°	709.4	743.7	828.4	1137.3	1542.4	1178.5	1002.3	2052.8	3231.3	2734.7	2869.7
82.5°	521.7	579.0	700.3	798.7	1103.0	812.4	611.0	1036.7	1228.9	1057.3	1066.4
85°	297.5	336.4	423.3	572.2	704.8	496.6	350.1	460.0	572.2	469.1	418.8
87.5°	105.3	137.4	148.7	224.3	306.7	205.9	135.0	132.7	187.7	139.6	116.7
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°	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9	6322.9
2.5°	6368.7	6357.3	6311.5	6249.7	6185.7	6123.9	6103.3	6059.8	6030.0	6014.0	6032.3
5°	6496.9	6460.3	6352.6	6215.4	6071.2	5915.6	5805.7	5705.0	5631.9	5563.2	5590.7
7.5°	6679.9	6615.9	6430.5	6190.2	5933.9	5675.3	5483.1	5336.7	5238.3	5174.1	5187.8
10°	6892.7	6794.3	6510.6	6151.3	5755.4	5384.6	5158.1	5032.2	4970.4	4936.2	4945.3
12.5°	7137.6	6998.0	6593.0	6062.1	5483.1	5059.7	4904.1	4867.5	4869.8	4872.0	4876.6
15°	7439.7	7245.2	6659.3	5867.5	5128.4	4810.3	4782.9	4842.3	4904.1	4933.8	4931.6
17.5°	7780.7	7506.1	6670.8	5547.2	4780.5	4650.1	4737.0	4865.2	4959.1	5000.3	5009.4
20°	8146.8	7771.6	6588.4	5094.0	4494.5	4519.6	4675.2	4840.0	4943.1	4995.6	5009.4
22.5°	8565.6	8055.3	6391.6	4618.0	4261.0	4377.8	4560.8	4721.0	4828.6	4881.3	4895.0
25°	9043.9	8373.3	6082.7	4217.6	4059.7	4217.6	4400.6	4533.4	4620.4	4668.4	4682.1
27.5°	9574.8	8705.2	5670.7	3899.5	3883.5	4052.8	4203.8	4306.8	4352.6	4389.3	4403.0
30°	10108.0	9007.3	5171.8	3659.2	3730.2	3890.3	3997.9	4043.6	4057.4	4064.2	4080.3
32.5°	10684.7	9268.2	4647.8	3460.1	3583.7	3732.4	3796.5	3817.1	3753.0	3709.6	3723.3
35°	11382.6	9547.4	4135.2	3302.2	3439.5	3567.7	3588.2	3570.0	3494.4	3405.2	3409.8
37.5°	12245.4	9895.1	3725.6	3190.1	3304.5	3389.2	3363.9	3359.4	3366.3	3261.0	3267.9
40°	13302.7	10348.3	3425.8	3103.1	3194.6	3213.0	3142.0	3180.9	3215.2	3055.0	3059.6
42.5°	14476.6	10895.2	3235.8	3043.6	3103.1	3059.6	2949.7	2993.3	2988.7	2778.2	2775.9
45°	15673.5	11490.2	3169.5	3000.2	3018.4	2931.5	2810.2	2821.6	2725.5	2535.5	2542.4
47.5°	16863.5	12128.7	3210.7	2963.5	2913.2	2814.8	2721.0	2670.6	2528.7	2386.8	2386.8
50°	18030.6	12799.2	3361.7	2890.3	2769.0	2711.8	2643.2	2553.9	2402.8	2281.5	2272.4
52.5°	19113.0	13474.2	3531.0	2769.0	2588.2	2622.6	2579.1	2476.1	2327.4	2203.8	2206.0
55°	20138.2	14149.4	3597.4	2602.0	2418.9	2544.8	2519.6	2329.6	2151.2	2050.4	2041.3
57.5°	21254.9	14961.8	3524.2	2389.2	2281.5	2455.5	2359.3	2148.8	2045.9	1970.4	1963.5
60°	22801.9	16236.4	3366.3	2126.0	2151.2	2322.8	2158.0	2071.0	1958.9	1874.2	1869.6
62.5°	25371.8	18614.1	3112.3	1865.1	1997.8	2126.0	2061.9	1974.9	1860.5	1778.1	1778.1
65°	29170.7	21918.6	2633.9	1661.4	1826.1	1933.8	1958.9	1872.0	1753.0	1665.9	1670.5
67.5°	32374.4	23992.0	1993.2	1492.1	1649.9	1778.1	1849.1	1764.3	1638.6	1553.8	1556.2
70°	32198.2	22486.1	1521.8	1325.0	1494.3	1624.8	1716.4	1649.9	1514.9	1434.9	1441.7
72.5°	28598.5	18810.9	1231.1	1155.7	1336.4	1464.6	1574.4	1524.1	1386.8	1309.0	1309.0
75°	21010.1	13353.0	984.0	984.0	1139.6	1297.5	1418.8	1386.8	1261.0	1206.0	1190.0
77.5°	8856.2	5602.0	771.2	816.9	947.4	1114.5	1265.5	1276.9	1167.1	1235.7	1121.4
80°	2354.8	1544.7	588.1	643.1	743.7	919.9	1100.7	1096.1	977.1	913.1	849.0
82.5°	897.1	608.7	418.8	453.2	537.8	704.8	871.9	899.3	780.3	675.1	675.1
85°	345.5	260.9	258.6	272.3	313.5	466.9	659.1	681.9	588.1	498.9	514.9
87.5°	89.3	77.8	96.1	91.5	144.2	249.5	377.6	391.3	359.3	208.3	297.5
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)