

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: P970282

Luminaire Tested: **NAV-SB6B-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28577 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

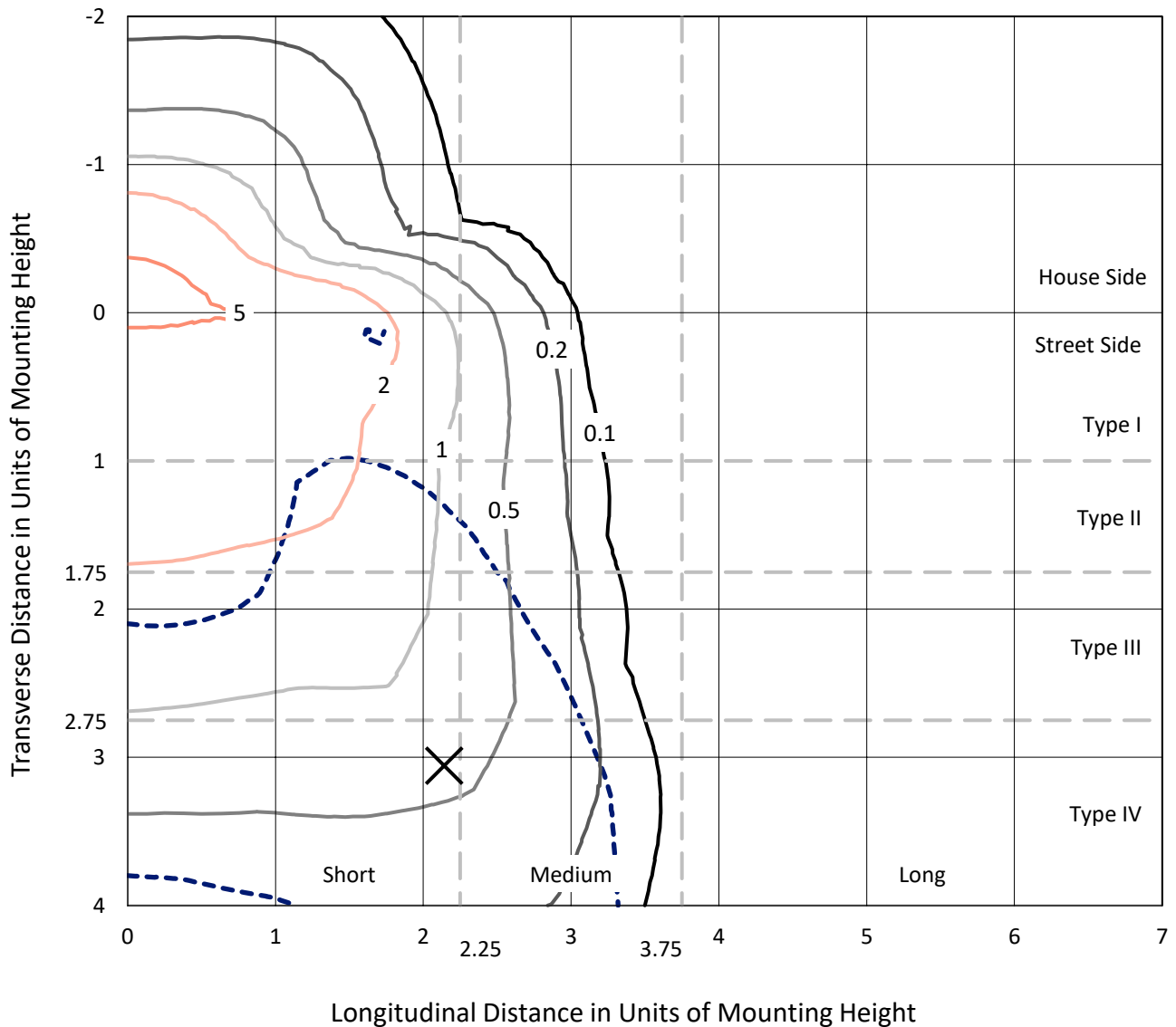
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

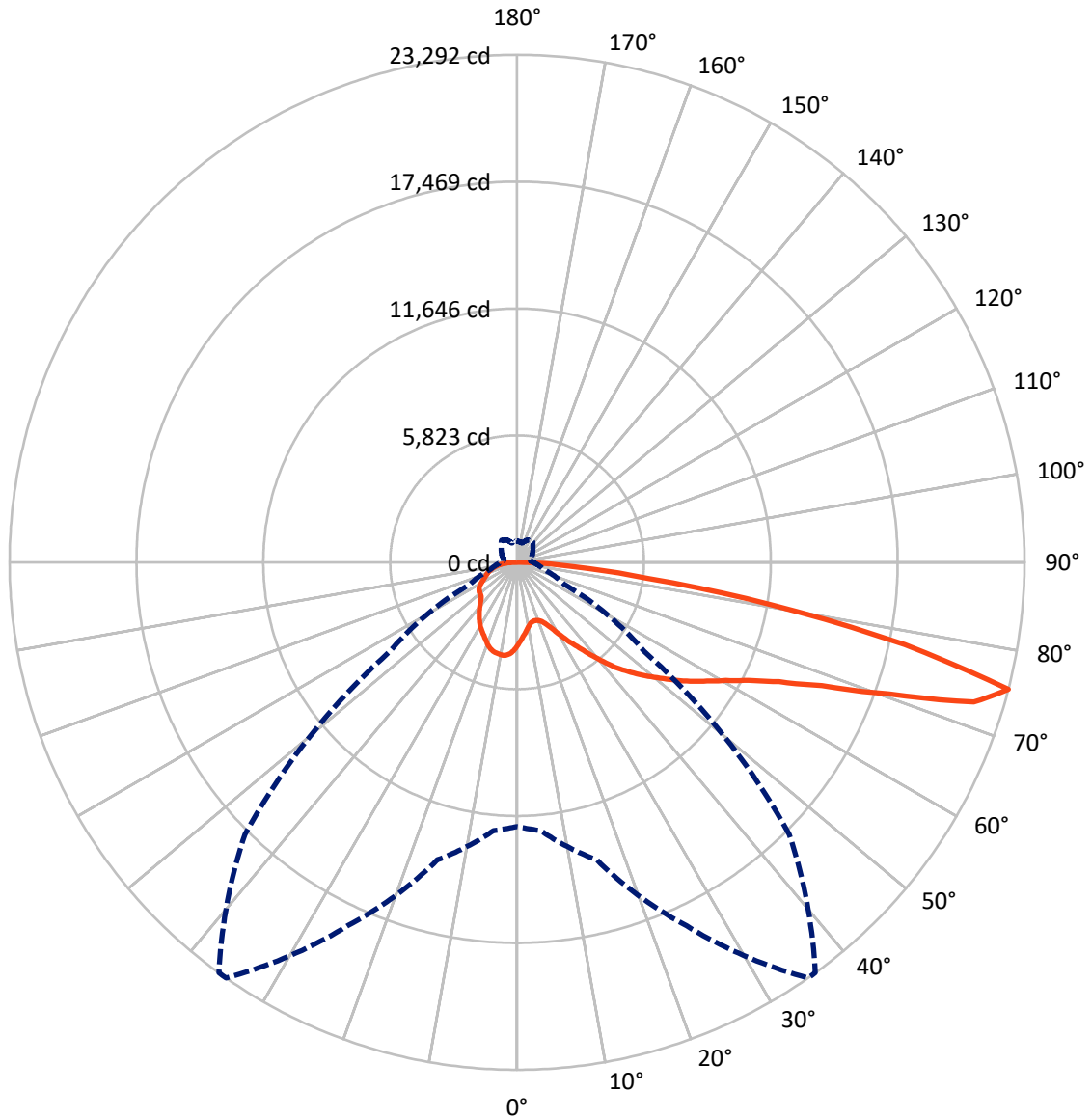
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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
<b>House Side</b>	Lumens	6800.6	0.0	6800.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	21776.4	0.0	21776.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	28577.0	0.0	28577.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.5	1.3
10°-20°	1040.0	3.6
20°-30°	1746.4	6.1
30°-40°	2714.1	9.5
40°-50°	4028.5	14.1
50°-60°	5561.6	19.5
60°-70°	6747.5	23.6
70°-80°	5576.3	19.5
80°-90°	802.0	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°	28577.0	100.0
0°-180°	28577.0	100.0

**Coefficient of Utilization**

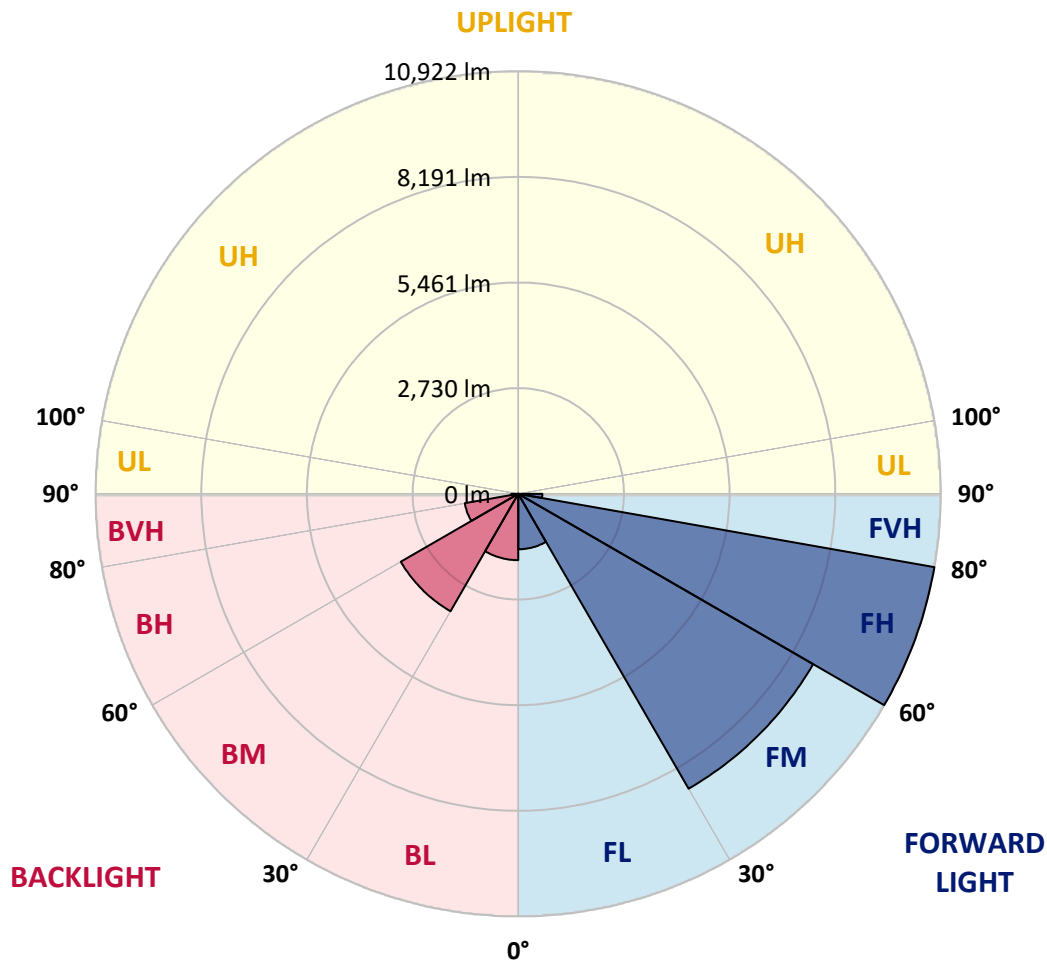


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.1	5.0			
FM (30°-60°)	8800.2	30.8			
FH (60°-80°)	10921.7	38.2			G4/12000
FVH (80°-90°)	621.4	2.2			G4/750
BL (0°-30°)	1713.8	6.0	B3/2500		
BM (30°-60°)	3504.1	12.3	B3/5000		
BH (60°-80°)	1402.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	180.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1
2.5°	3511.4	3533.1	3542.4	3537.7	3560.8	3557.8	3590.3	3630.4	3686.0	3740.1	3818.8
5°	3241.2	3264.3	3284.4	3303.0	3347.8	3361.6	3412.6	3489.8	3591.8	3695.3	3825.1
7.5°	2989.3	3009.4	3040.3	3074.3	3149.9	3163.9	3248.8	3369.4	3511.4	3662.8	3842.1
10°	2783.8	2803.9	2836.4	2875.0	2969.2	2986.2	3094.4	3255.0	3440.4	3632.0	3860.6
12.5°	2695.7	2702.0	2720.5	2759.1	2841.0	2851.9	2970.8	3154.6	3370.9	3608.8	3888.4
15°	2691.1	2703.5	2705.1	2725.2	2793.1	2797.7	2907.4	3089.8	3327.7	3604.2	3930.2
17.5°	2737.5	2746.8	2732.9	2745.3	2802.4	2810.1	2896.6	3058.8	3313.7	3624.2	4001.2
20°	2861.1	2868.8	2827.1	2810.1	2851.9	2858.0	2943.0	3078.9	3327.7	3665.9	4098.5
22.5°	3123.7	3128.3	3026.4	2956.8	2960.0	2963.1	3037.2	3160.8	3381.7	3741.7	4222.1
25°	3533.1	3530.0	3367.8	3233.4	3156.2	3139.2	3188.6	3293.6	3472.8	3842.1	4381.3
27.5°	4012.0	3988.8	3826.6	3625.8	3457.4	3432.7	3421.9	3466.7	3602.6	3975.0	4575.9
30°	4552.7	4531.1	4356.5	4093.8	3860.6	3820.5	3718.5	3695.3	3795.7	4155.7	4846.2
32.5°	5145.9	5132.1	4923.5	4605.2	4293.2	4246.8	4075.3	4013.6	4092.3	4429.1	5223.2
35°	5643.3	5631.0	5458.0	5130.4	4748.9	4691.7	4517.2	4447.7	4487.9	4779.8	5716.0
37.5°	6092.9	6086.8	5938.4	5680.4	5286.5	5216.9	5020.8	4997.6	4989.9	5241.7	6313.8
40°	6510.1	6494.6	6340.1	6204.1	5912.2	5848.9	5675.8	5655.7	5597.0	5810.2	6990.5
42.5°	6971.9	6931.8	6707.8	6644.5	6565.6	6513.2	6409.6	6412.7	6282.9	6451.3	7707.3
45°	7348.9	7325.7	7095.6	7058.5	7143.4	7121.8	7211.4	7234.6	6982.8	7123.3	8451.9
47.5°	7753.6	7732.0	7537.3	7511.1	7741.3	7747.5	8064.2	8071.9	7665.6	7821.7	9198.0
50°	8252.7	8221.7	8028.6	8061.1	8319.1	8342.3	8921.6	8869.0	8294.3	8530.7	9938.1
52.5°	8581.7	8600.3	8558.5	8611.0	8963.3	8984.9	9765.1	9630.7	8916.9	9230.5	10664.2
55°	8824.2	8861.3	8991.1	9111.5	9643.0	9664.6	10560.7	10355.2	9432.9	9879.4	11347.0
57.5°	9136.3	9083.8	9326.3	9561.1	10288.7	10345.9	11334.7	11053.5	9890.2	10438.6	11815.1
60°	9584.3	9547.3	9735.7	10083.3	11011.8	11102.9	12153.4	11682.2	10225.4	10882.0	11906.2
62.5°	10492.7	10400.0	10429.4	10736.8	11923.2	12043.7	13077.3	12230.6	10392.3	11055.0	11418.1
65°	11850.6	11691.5	11543.1	11756.3	13207.0	13325.9	14120.0	12661.6	10330.5	10719.8	10121.9
67.5°	13560.7	13403.2	13220.9	13421.8	15097.9	15192.1	15406.9	12904.2	9843.9	9428.3	7830.9
70°	14971.3	14912.5	15130.3	15956.9	18118.1	18121.2	17056.8	12703.3	8510.7	6684.6	4531.1
72.5°	14784.3	14748.7	15896.6	18451.8	21924.6	21842.7	18618.6	11183.3	5732.9	3015.5	1697.8
75°	12128.7	12358.8	14137.0	18406.9	23291.9	23281.0	17662.4	7109.4	2371.3	1249.8	877.5
77.5°	6503.8	6868.4	9178.1	13590.2	18183.0	18456.5	12417.6	2487.3	1018.0	800.2	607.1
80°	2121.1	2439.3	3658.2	6919.5	11815.1	11764.1	5322.0	976.3	696.7	566.9	420.2
82.5°	900.7	937.8	1634.5	3267.4	6063.6	5969.3	1694.7	560.8	489.7	387.8	259.5
85°	352.2	393.9	721.5	1510.8	2626.3	2569.1	611.7	278.1	313.6	253.4	154.5
87.5°	115.8	140.6	258.0	517.5	817.2	787.9	149.9	95.7	135.9	115.8	55.7
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°	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1
2.5°	3840.5	3865.3	3894.6	3937.8	3975.0	4005.8	4038.3	4058.4	4066.1	4089.2	4087.7
5°	3868.3	3922.4	3995.0	4066.1	4135.6	4177.3	4214.4	4232.9	4250.0	4262.3	4265.3
7.5°	3914.7	3984.2	4098.5	4191.2	4250.0	4283.9	4308.6	4302.4	4308.6	4311.7	4316.4
10°	3954.9	4052.1	4188.2	4276.2	4321.0	4322.5	4316.4	4294.8	4283.9	4285.4	4288.5
12.5°	4002.7	4110.9	4257.6	4331.8	4344.2	4310.1	4283.9	4246.8	4232.9	4226.7	4223.6
15°	4067.6	4191.2	4333.3	4361.2	4330.2	4287.0	4242.2	4181.9	4151.0	4126.3	4134.0
17.5°	4146.4	4282.3	4392.0	4371.9	4305.5	4234.5	4161.8	4070.7	4007.3	3981.1	3982.6
20°	4256.1	4378.1	4436.8	4348.8	4248.3	4140.2	4016.7	3905.5	3846.7	3820.5	3817.3
22.5°	4388.9	4506.3	4480.1	4308.6	4166.5	3993.5	3838.9	3757.1	3727.7	3709.2	3712.3
25°	4548.0	4648.5	4511.0	4250.0	4032.0	3798.9	3679.9	3653.6	3639.7	3625.8	3625.8
27.5°	4755.1	4809.2	4534.2	4163.3	3822.0	3591.8	3548.6	3553.2	3548.6	3525.4	3530.0
30°	5028.5	5017.7	4555.8	4022.8	3580.9	3404.8	3407.9	3428.0	3431.1	3415.7	3423.4
32.5°	5388.4	5278.7	4566.6	3840.5	3350.8	3241.2	3244.2	3265.9	3281.3	3255.0	3267.4
35°	5824.2	5583.1	4549.6	3611.9	3173.1	3085.0	3061.9	3068.1	3072.7	3048.0	3065.0
37.5°	6332.3	5924.5	4473.9	3358.5	3026.4	2932.1	2882.7	2841.0	2816.3	2793.1	2808.6
40°	6890.0	6296.9	4334.8	3111.4	2862.6	2770.0	2695.7	2617.0	2533.6	2502.6	2516.6
42.5°	7474.0	6679.9	4166.5	2875.0	2674.1	2598.5	2519.7	2405.4	2280.2	2216.9	2224.6
45°	8079.7	7072.4	4001.2	2641.7	2481.0	2448.6	2357.5	2219.9	2084.0	2003.7	1997.5
47.5°	8672.8	7443.1	3758.7	2406.9	2300.3	2335.9	2264.7	2138.0	1986.7	1860.0	1846.1
50°	9239.8	7790.7	3361.6	2169.0	2153.5	2301.8	2233.9	2051.5	1878.5	1716.4	1702.4
52.5°	9802.2	8071.9	2853.4	1952.7	2074.7	2292.6	2193.7	1992.9	1781.2	1611.3	1592.7
55°	10279.5	8217.1	2363.6	1767.3	1960.4	2213.8	2145.8	1923.3	1643.7	1463.0	1447.5
57.5°	10551.3	8099.7	1955.8	1585.1	1802.9	2084.0	2063.9	1775.0	1480.0	1340.9	1322.4
60°	10434.0	7623.8	1622.1	1425.9	1653.0	1943.4	1921.8	1628.3	1354.8	1223.5	1205.0
62.5°	9786.7	6717.0	1357.9	1286.9	1517.1	1799.8	1779.7	1515.5	1259.1	1132.4	1112.3
65°	8482.8	5464.2	1152.5	1171.0	1379.5	1626.8	1656.1	1421.3	1183.4	1059.7	1039.7
67.5°	6469.9	3957.9	991.8	1070.6	1245.2	1456.8	1541.8	1353.3	1120.0	1002.7	984.1
70°	3687.5	2247.7	855.9	973.2	1126.2	1299.2	1453.8	1299.2	1052.1	954.7	942.4
72.5°	1398.1	1032.0	739.9	876.0	1011.9	1166.3	1356.4	1214.2	973.2	900.7	888.3
75°	746.2	628.7	622.6	761.6	880.6	1036.6	1234.3	1130.9	914.6	951.6	982.6
77.5°	508.3	445.0	520.6	651.9	736.9	893.0	1104.5	1004.2	792.5	789.5	727.6
80°	352.2	315.2	423.3	525.2	570.0	750.8	964.0	862.0	645.8	602.5	576.3
82.5°	211.7	205.5	316.7	392.4	403.2	579.3	798.7	723.0	528.4	460.3	463.5
85°	115.8	122.1	202.3	230.2	234.8	404.8	625.7	559.2	406.3	341.4	344.5
87.5°	32.5	41.7	74.1	91.1	112.7	210.1	372.3	332.1	203.9	142.2	142.2
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)