

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: P968701

Luminaire Tested: **NAV-SB5C-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968701
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-SB5C-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31660.2 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

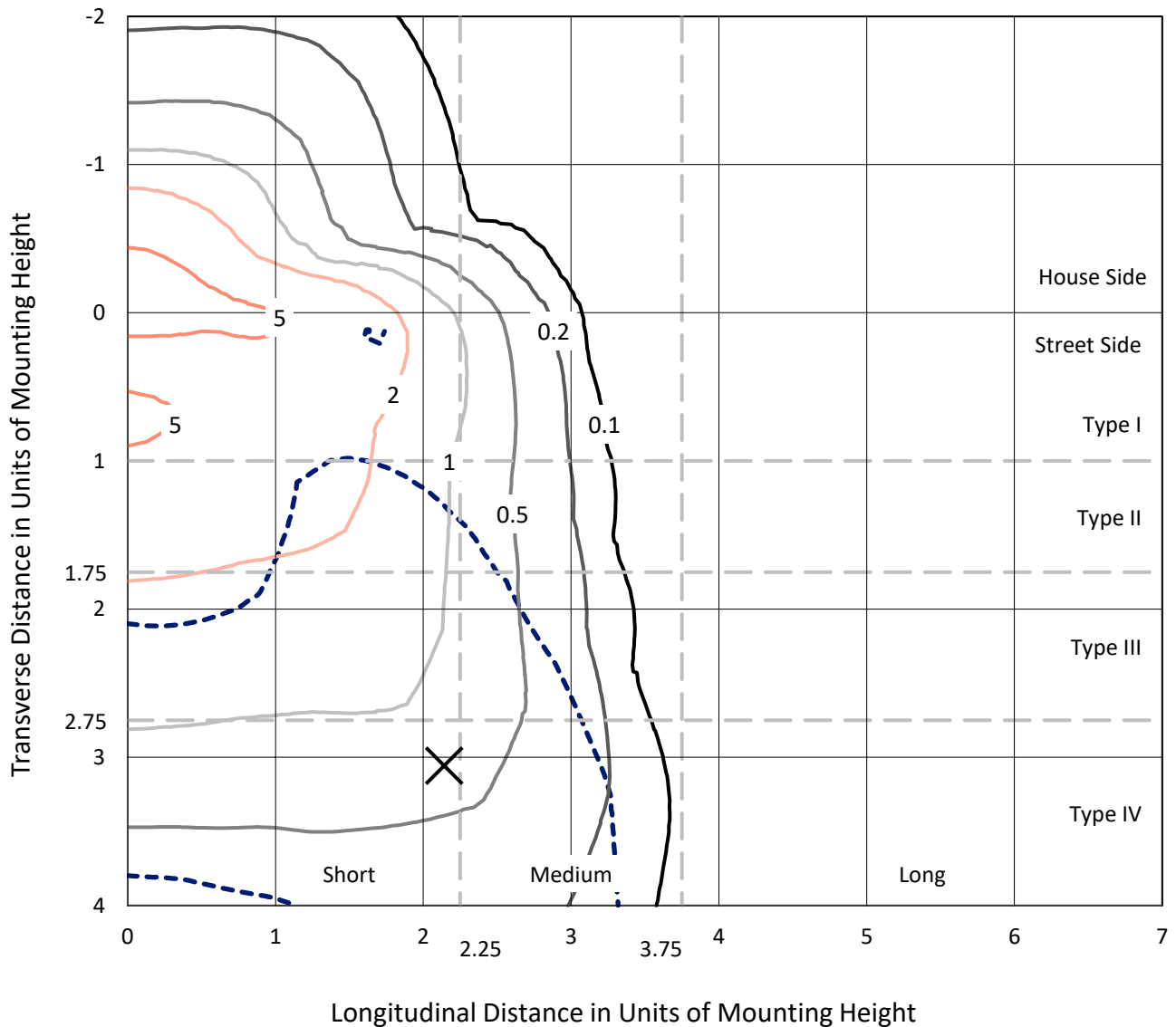
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

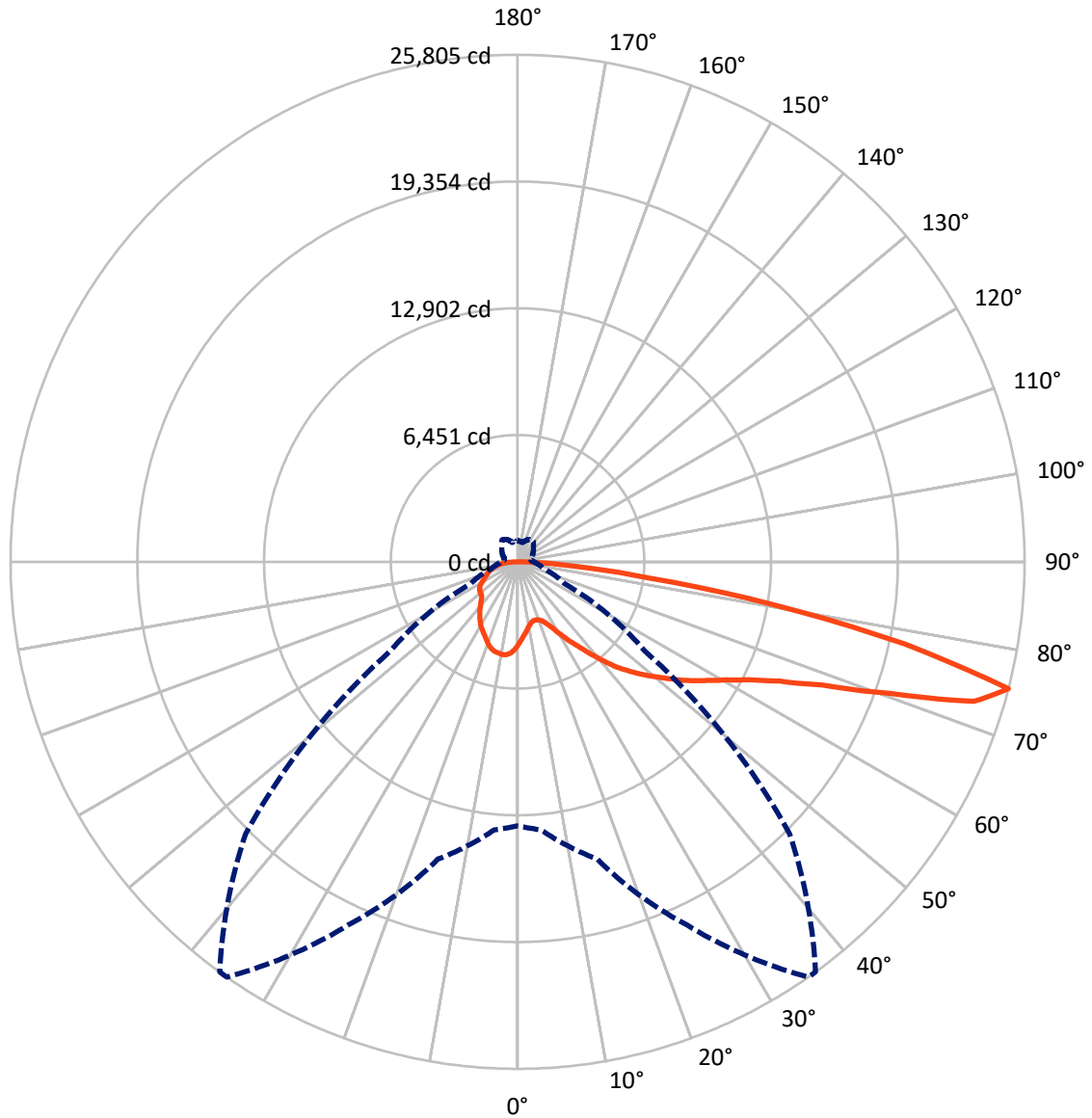
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	7534.3	0.0	7534.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24125.9	0.0	24125.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	31660.2	0.0	31660.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.3
10°-20°	1152.2	3.6
20°-30°	1934.8	6.1
30°-40°	3007.0	9.5
40°-50°	4463.2	14.1
50°-60°	6161.6	19.5
60°-70°	7475.5	23.6
70°-80°	6177.9	19.5
80°-90°	888.6	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°	31660.2	100.0
0°-180°	31660.2	100.0

Coefficient of Utilization

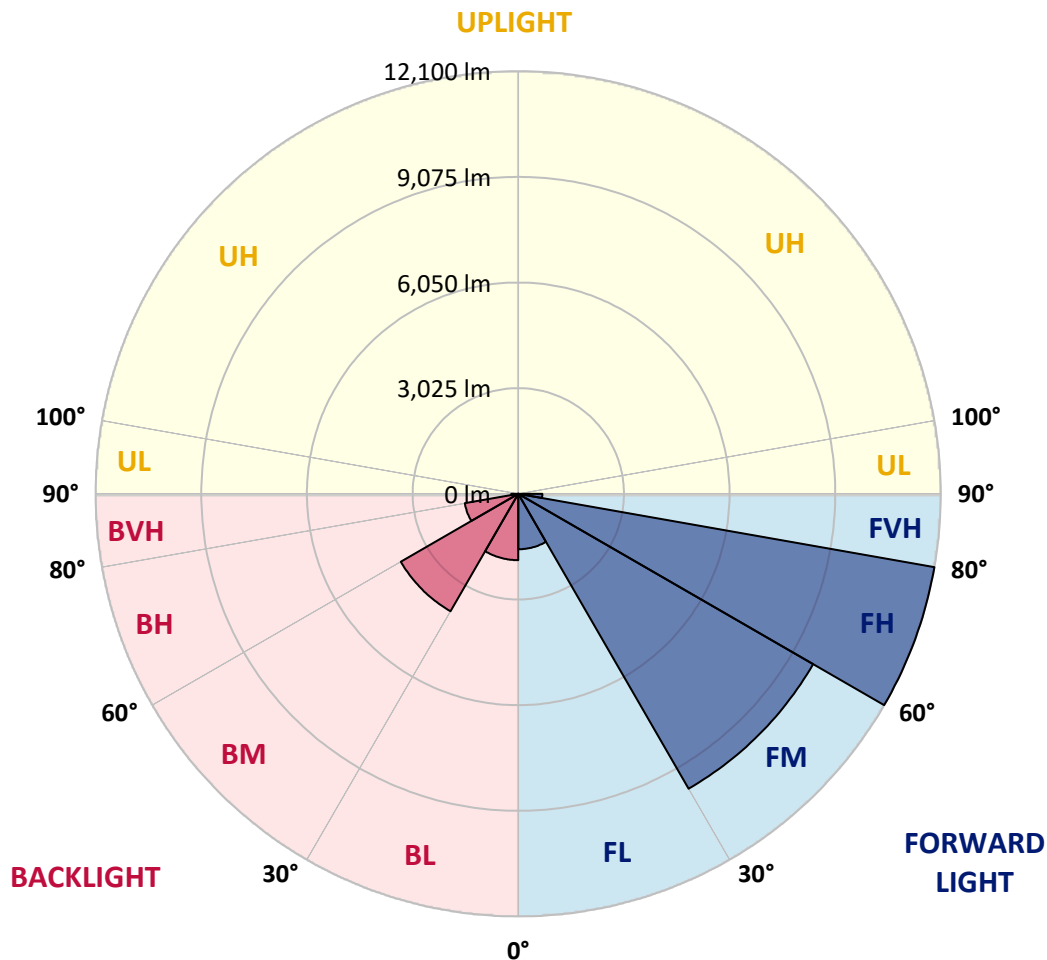


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1587.7	5.0			
FM (30°-60°)	9749.6	30.8			
FH (60°-80°)	12100.1	38.2			G5
FVH (80°-90°)	688.5	2.2			G4/750
BL (0°-30°)	1898.8	6.0	B3/2500		
BM (30°-60°)	3882.1	12.3	B3/5000		
BH (60°-80°)	1553.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	200.1	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-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9
2.5°	3890.3	3914.3	3924.5	3919.4	3945.1	3941.6	3977.6	4022.1	4083.7	4143.7	4230.9
5°	3590.8	3616.5	3638.7	3659.2	3708.9	3724.3	3780.8	3866.4	3979.4	4094.0	4237.8
7.5°	3311.8	3334.1	3368.3	3406.0	3489.8	3505.2	3599.4	3732.8	3890.3	4058.1	4256.6
10°	3084.2	3106.5	3142.3	3185.2	3289.5	3308.4	3428.2	3606.2	3811.6	4023.8	4277.1
12.5°	2986.6	2993.5	3014.0	3056.8	3147.5	3159.5	3291.3	3494.9	3734.6	3998.1	4308.0
15°	2981.5	2995.2	2996.9	3019.1	3094.5	3099.6	3221.1	3423.1	3686.6	3993.0	4354.1
17.5°	3032.9	3043.1	3027.7	3041.4	3104.7	3113.2	3209.2	3388.9	3671.2	4015.2	4432.9
20°	3169.8	3178.3	3132.1	3113.2	3159.5	3166.3	3260.5	3411.1	3686.6	4061.5	4540.8
22.5°	3460.7	3465.8	3352.9	3275.9	3279.3	3282.8	3364.9	3501.8	3746.6	4145.3	4677.6
25°	3914.3	3910.9	3731.1	3582.3	3496.7	3477.8	3532.6	3649.0	3847.5	4256.6	4853.9
27.5°	4444.8	4419.2	4239.5	4017.0	3830.4	3803.1	3791.1	3840.7	3991.3	4403.8	5069.5
30°	5043.9	5019.9	4826.5	4535.5	4277.1	4232.6	4119.7	4094.0	4205.3	4604.0	5369.1
32.5°	5701.2	5685.7	5454.6	5102.0	4756.3	4705.1	4515.0	4446.6	4533.9	4907.0	5786.7
35°	6252.2	6238.6	6046.9	5684.0	5261.2	5198.0	5004.6	4927.5	4972.0	5295.5	6332.7
37.5°	6750.3	6743.5	6579.2	6293.3	5856.8	5779.9	5562.5	5536.8	5528.2	5807.2	6995.0
40°	7212.4	7195.3	7024.1	6873.5	6550.1	6479.8	6288.2	6265.9	6200.9	6437.1	7744.7
42.5°	7724.2	7679.7	7431.5	7361.3	7274.0	7215.8	7101.2	7104.6	6960.8	7147.3	8538.9
45°	8141.8	8116.1	7861.1	7820.0	7914.1	7890.1	7989.5	8015.1	7736.2	7891.9	9363.8
47.5°	8590.2	8566.2	8350.6	8321.5	8576.5	8583.3	8934.2	8942.8	8492.6	8665.6	10190.4
50°	9143.0	9108.8	8894.8	8930.8	9216.6	9242.3	9884.1	9826.0	9189.2	9451.1	11010.3
52.5°	9507.6	9528.1	9481.9	9540.1	9930.3	9954.3	10818.6	10669.7	9878.9	10226.4	11814.8
55°	9776.2	9817.3	9961.2	10094.6	10683.4	10707.4	11700.1	11472.4	10450.6	10945.3	12571.2
57.5°	10122.0	10063.9	10332.5	10592.7	11398.8	11462.2	12557.6	12246.1	10957.2	11564.9	13089.9
60°	10618.4	10577.3	10786.1	11171.2	12199.9	12300.8	13464.6	12942.7	11328.6	12056.0	13190.8
62.5°	11624.7	11522.0	11554.6	11895.1	13209.6	13343.1	14488.2	13550.2	11513.5	12247.7	12649.9
65°	13129.2	12952.9	12788.6	13024.8	14631.9	14763.7	15643.4	14027.7	11445.0	11876.4	11214.0
67.5°	15023.8	14849.3	14647.4	14869.8	16726.9	16831.2	17069.1	14296.5	10905.9	10445.5	8675.8
70°	16586.4	16521.5	16762.7	17678.5	20072.9	20076.3	18897.1	14074.0	9428.9	7405.8	5019.9
72.5°	16379.4	16340.0	17611.7	20442.6	24290.1	24199.4	20627.4	12389.8	6351.5	3340.9	1881.0
75°	13437.2	13692.3	15662.3	20393.0	25804.8	25792.9	19568.0	7876.5	2627.2	1384.7	972.1
77.5°	7205.5	7609.5	10168.2	15056.4	20144.7	20447.7	13757.3	2755.6	1127.9	886.6	672.6
80°	2349.9	2702.5	4053.0	7666.0	13089.9	13033.4	5896.2	1081.7	771.9	628.1	465.6
82.5°	997.8	1038.9	1810.8	3619.9	6717.7	6613.4	1877.6	621.3	542.5	429.6	287.5
85°	390.2	436.4	799.3	1673.9	2909.6	2846.3	677.7	308.1	347.5	280.6	171.2
87.5°	128.3	155.8	285.9	573.4	905.4	872.9	166.0	106.1	150.6	128.3	61.6
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°	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9	4218.9
2.5°	4254.9	4282.2	4314.7	4362.7	4403.8	4438.0	4473.9	4496.2	4504.8	4530.4	4528.8
5°	4285.7	4345.6	4426.1	4504.8	4581.8	4628.0	4669.1	4689.6	4708.4	4722.2	4725.6
7.5°	4337.1	4414.1	4540.8	4643.4	4708.4	4746.1	4773.4	4766.7	4773.4	4776.9	4782.0
10°	4381.6	4489.4	4640.0	4737.5	4787.2	4788.9	4782.0	4758.0	4746.1	4747.8	4751.2
12.5°	4434.6	4554.4	4716.9	4799.2	4812.9	4775.2	4746.1	4705.1	4689.6	4682.7	4679.3
15°	4506.5	4643.4	4800.9	4831.6	4797.4	4749.5	4699.8	4633.1	4598.9	4571.5	4580.1
17.5°	4593.7	4744.4	4865.9	4843.6	4770.0	4691.3	4610.9	4509.9	4439.7	4410.7	4412.3
20°	4715.3	4850.5	4915.5	4818.0	4706.7	4586.9	4450.0	4326.7	4261.7	4232.6	4229.3
22.5°	4862.5	4992.6	4963.5	4773.4	4616.0	4424.3	4253.1	4162.4	4129.9	4109.4	4112.8
25°	5038.8	5150.0	4997.7	4708.4	4467.2	4208.6	4076.8	4047.8	4032.3	4017.0	4017.0
27.5°	5268.1	5328.1	5023.3	4612.6	4234.4	3979.4	3931.4	3936.5	3931.4	3905.8	3910.9
30°	5571.1	5559.1	5047.3	4456.8	3967.4	3772.2	3775.7	3797.9	3801.3	3784.2	3792.8
32.5°	5969.8	5848.3	5059.3	4254.9	3712.3	3590.8	3594.3	3618.1	3635.3	3606.2	3619.9
35°	6452.5	6185.5	5040.4	4001.6	3515.5	3418.0	3392.2	3399.1	3404.2	3376.9	3395.7
37.5°	7015.6	6563.7	4956.6	3720.9	3352.9	3248.5	3193.7	3147.5	3120.1	3094.5	3111.6
40°	7633.5	6976.3	4802.5	3447.1	3171.5	3068.7	2986.6	2899.3	2807.0	2772.7	2788.1
42.5°	8280.4	7400.7	4616.0	3185.2	2962.7	2878.8	2791.5	2664.9	2526.2	2456.1	2464.6
45°	8951.3	7835.4	4432.9	2926.7	2748.7	2712.8	2611.8	2459.5	2308.8	2219.8	2213.0
47.5°	9608.6	8246.2	4164.2	2666.5	2548.5	2587.8	2509.1	2368.8	2201.1	2060.7	2045.3
50°	10236.7	8631.3	3724.3	2403.0	2385.9	2550.2	2474.9	2272.9	2081.3	1901.5	1886.1
52.5°	10859.7	8942.8	3161.2	2163.4	2298.6	2540.0	2430.4	2207.8	1973.4	1785.1	1764.6
55°	11388.6	9103.6	2618.7	1958.0	2172.0	2452.6	2377.3	2130.9	1821.1	1620.8	1603.7
57.5°	11689.8	8973.6	2166.8	1756.0	1997.3	2308.8	2286.6	1966.6	1639.7	1485.6	1465.0
60°	11559.7	8446.4	1797.1	1579.7	1831.4	2153.1	2129.1	1804.0	1501.0	1355.6	1335.0
62.5°	10842.6	7441.8	1504.4	1425.7	1680.7	1993.9	1971.7	1679.1	1394.9	1254.6	1232.3
65°	9398.0	6053.8	1276.8	1297.3	1528.4	1802.3	1834.7	1574.6	1311.1	1174.1	1151.9
67.5°	7167.9	4385.0	1098.8	1186.1	1379.5	1614.0	1708.2	1499.3	1240.9	1110.8	1090.3
70°	4085.4	2490.2	948.2	1078.3	1247.7	1439.4	1610.6	1439.4	1165.5	1057.7	1044.1
72.5°	1549.0	1143.3	819.8	970.5	1121.0	1292.2	1502.8	1345.3	1078.3	997.8	984.1
75°	826.7	696.6	689.7	843.8	975.6	1148.4	1367.6	1252.9	1013.2	1054.3	1088.6
77.5°	563.1	492.9	576.8	722.3	816.4	989.2	1223.7	1112.5	878.0	874.6	806.2
80°	390.2	349.1	468.9	581.9	631.6	831.8	1067.9	955.0	715.4	667.5	638.4
82.5°	234.5	227.7	350.9	434.7	446.7	641.9	884.9	801.0	585.4	510.0	513.4
85°	128.3	135.2	224.2	255.0	260.1	448.4	693.2	619.6	450.2	378.2	381.7
87.5°	36.0	46.2	82.1	101.0	124.9	232.8	412.5	368.0	225.9	157.4	157.4
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)