

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: P970499

Luminaire Tested: **NAV-SB6B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970499
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-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30081.7 lumens
Efficiency: N/A
Efficacy: 136.5 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

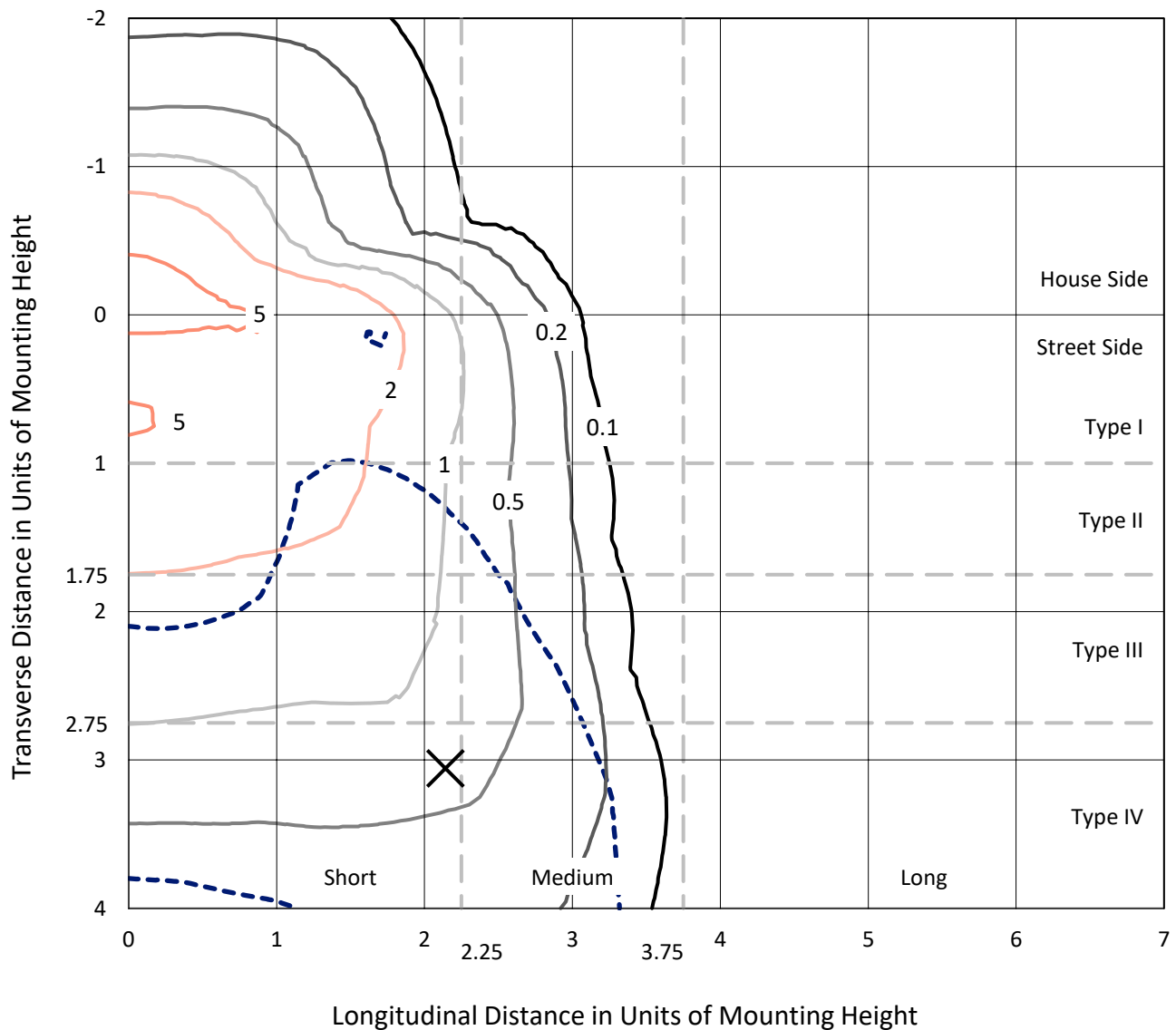


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Iso-Footcandle Lines of Horizontal Illumination

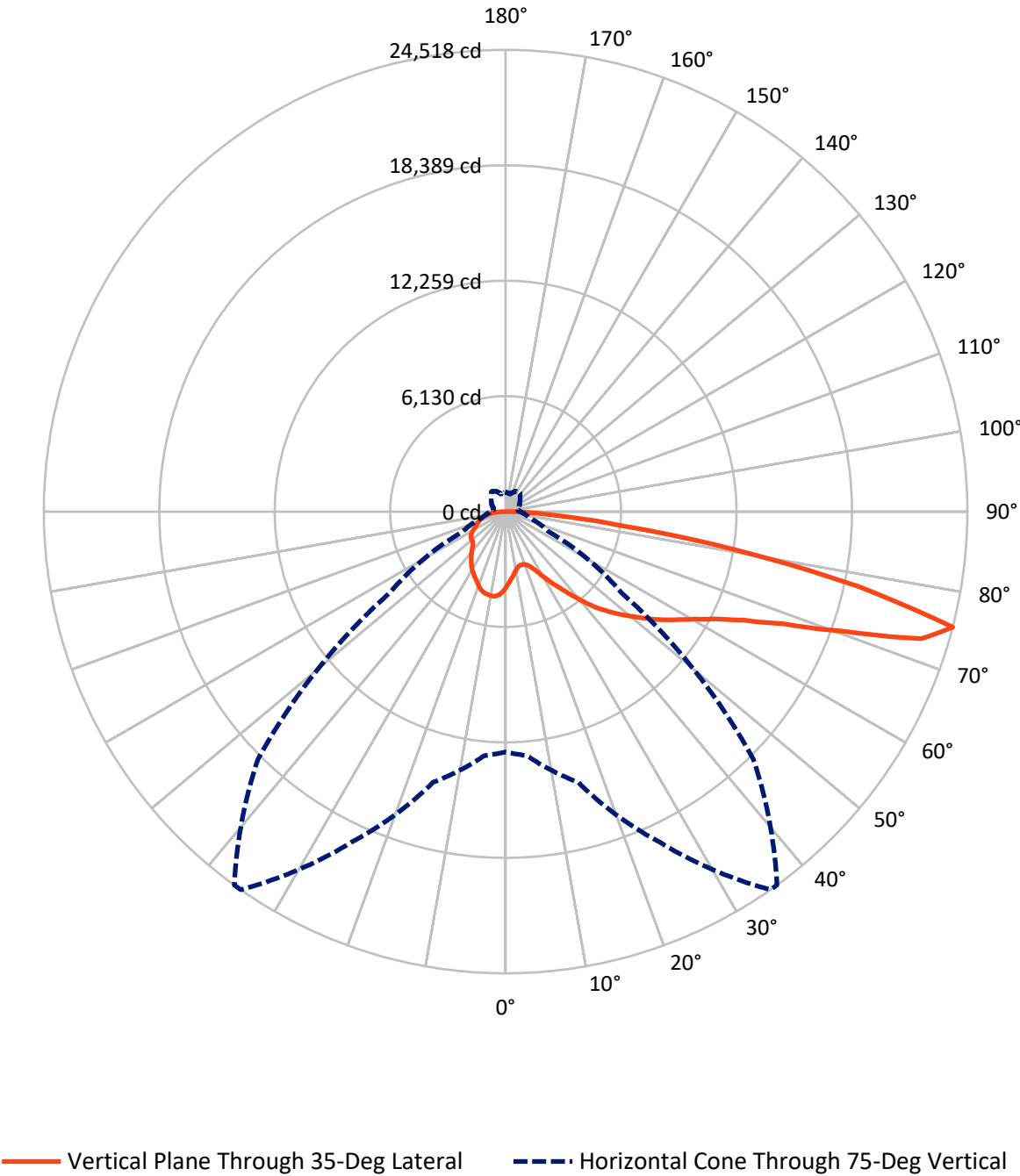
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7158.7	0.0	7158.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22923.0	0.0	22923.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	30081.7	0.0	30081.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	1.3
10°-20°	1094.7	3.6
20°-30°	1838.4	6.1
30°-40°	2857.0	9.5
40°-50°	4240.6	14.1
50°-60°	5854.4	19.5
60°-70°	7102.8	23.6
70°-80°	5869.9	19.5
80°-90°	844.3	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°	30081.7	100.0
0°-180°	30081.7	100.0

Coefficient of Utilization



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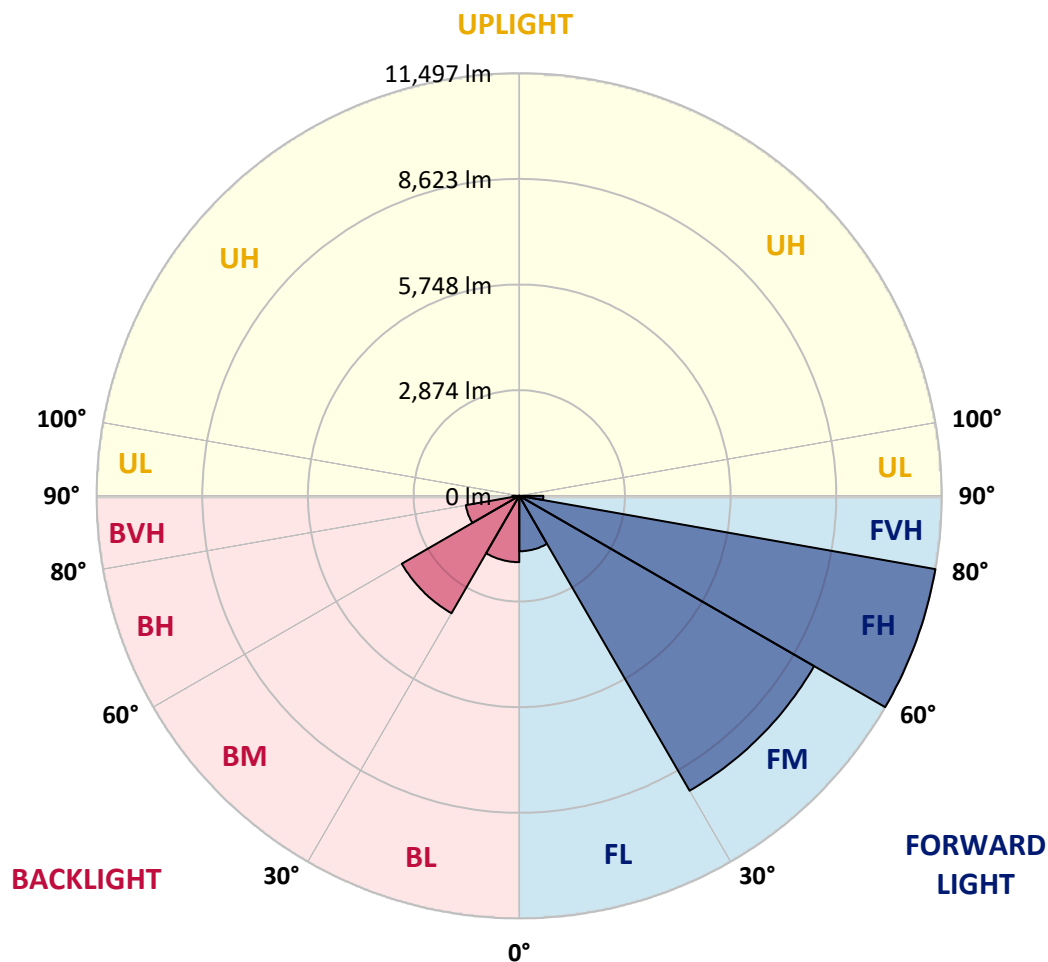
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.5	5.0			
FM	(30°-60°)	9263.5	30.8			
FH	(60°-80°)	11496.8	38.2			G4/12000
FVH	(80°-90°)	654.2	2.2			G4/750
BL	(0°-30°)	1804.1	6.0	B3/2500		
BM	(30°-60°)	3688.6	12.3	B3/5000		
BH	(60°-80°)	1475.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	190.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6
2.5°	3696.4	3719.1	3728.8	3724.0	3748.4	3745.1	3779.3	3821.6	3880.1	3937.0	4019.9
5°	3411.8	3436.2	3457.3	3476.8	3524.0	3538.6	3592.3	3673.6	3780.9	3889.9	4026.5
7.5°	3146.7	3167.9	3200.4	3236.1	3315.9	3330.4	3419.9	3546.7	3696.4	3855.7	4044.3
10°	2930.4	2951.6	2985.7	3026.3	3125.5	3143.5	3257.2	3426.4	3621.5	3823.2	4063.9
12.5°	2837.7	2844.3	2863.7	2904.4	2990.5	3002.0	3127.2	3320.7	3548.3	3798.9	4093.1
15°	2832.9	2845.8	2847.4	2868.7	2940.2	2945.0	3060.5	3252.4	3502.8	3793.9	4137.1
17.5°	2881.6	2891.4	2876.8	2889.8	2950.0	2958.0	3049.2	3219.8	3488.2	3815.0	4211.8
20°	3011.8	3019.9	2976.0	2958.0	3002.0	3008.5	3098.0	3241.0	3502.8	3859.0	4314.3
22.5°	3288.2	3293.0	3185.7	3112.5	3115.8	3119.1	3197.1	3327.3	3559.7	3938.7	4444.4
25°	3719.1	3715.8	3545.2	3403.6	3322.3	3304.4	3356.5	3467.1	3655.7	4044.3	4611.9
27.5°	4223.2	4198.8	4028.1	3816.7	3639.5	3613.4	3602.1	3649.2	3792.3	4184.3	4816.8
30°	4792.4	4769.6	4585.8	4309.4	4063.9	4021.6	3914.3	3889.9	3995.6	4374.5	5101.4
32.5°	5416.9	5402.3	5182.7	4847.7	4519.2	4470.4	4289.9	4224.8	4307.8	4662.3	5498.2
35°	5940.5	5927.5	5745.3	5400.6	4998.9	4938.8	4755.0	4681.8	4724.1	5031.5	6017.0
37.5°	6413.7	6407.3	6251.2	5979.5	5564.8	5491.6	5285.2	5260.8	5252.6	5517.7	6646.3
40°	6852.8	6836.5	6674.0	6530.8	6223.5	6156.8	5974.6	5953.5	5891.7	6116.2	7358.6
42.5°	7339.1	7296.8	7061.0	6994.3	6911.4	6856.0	6747.2	6750.3	6613.8	6791.0	8113.1
45°	7735.9	7711.5	7469.2	7430.1	7519.6	7496.7	7591.2	7615.5	7350.5	7498.4	8897.0
47.5°	8161.9	8139.1	7934.2	7906.6	8148.9	8155.4	8488.7	8496.9	8069.2	8233.4	9682.5
50°	8687.2	8654.7	8451.3	8485.6	8757.1	8781.5	9391.4	9336.0	8731.1	8979.9	10461.4
52.5°	9033.5	9053.1	9009.1	9064.5	9435.2	9458.0	10279.2	10137.8	9386.4	9716.6	11225.7
55°	9288.9	9327.9	9464.5	9591.3	10150.8	10173.5	11116.7	10900.5	9929.6	10399.5	11944.4
57.5°	9617.4	9562.1	9817.3	10064.6	10830.6	10890.7	11931.4	11635.5	10410.9	10988.2	12437.2
60°	10089.0	10049.9	10248.4	10614.2	11591.6	11687.6	12793.3	12297.3	10763.8	11455.0	12533.2
62.5°	11045.2	10947.6	10978.5	11302.1	12551.0	12677.9	13765.9	12874.6	10939.5	11637.1	12019.3
65°	12474.6	12307.1	12151.0	12375.4	13902.4	14027.6	14863.5	13328.4	10874.4	11284.2	10654.9
67.5°	14274.8	14108.9	13917.0	14128.5	15892.8	15992.0	16218.2	13583.7	10362.1	9924.7	8243.3
70°	15759.6	15697.8	15927.1	16797.1	19072.1	19075.4	17954.9	13372.3	8958.7	7036.6	4769.6
72.5°	15562.8	15525.4	16733.6	19423.3	23079.1	22992.9	19599.0	11772.1	6034.8	3174.3	1787.2
75°	12767.3	13009.6	14881.4	19376.2	24518.3	24506.8	18592.4	7483.8	2496.2	1315.6	923.7
77.5°	6846.3	7230.1	9661.2	14305.7	19140.4	19428.3	13071.4	2618.2	1071.6	842.3	639.1
80°	2232.8	2567.7	3850.8	7283.8	12437.2	12383.5	5602.2	1027.8	733.4	596.9	442.3
82.5°	948.1	987.1	1720.6	3439.4	6382.9	6283.7	1783.9	590.3	515.5	408.2	273.2
85°	370.7	414.7	759.4	1590.4	2764.5	2704.4	644.0	292.7	330.2	266.7	162.7
87.5°	122.0	148.0	271.6	544.8	860.3	829.3	157.7	100.9	143.1	122.0	58.5
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°	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6	4008.6
2.5°	4042.7	4068.7	4099.7	4145.2	4184.3	4216.7	4250.9	4272.0	4280.2	4304.6	4303.0
5°	4072.0	4128.9	4205.4	4280.2	4353.4	4397.2	4436.3	4455.8	4473.7	4486.7	4489.9
7.5°	4120.8	4194.0	4314.3	4411.9	4473.7	4509.5	4535.5	4529.0	4535.5	4538.7	4543.6
10°	4163.0	4265.5	4408.6	4501.3	4548.5	4550.1	4543.6	4520.9	4509.5	4511.1	4514.3
12.5°	4213.5	4327.3	4481.8	4559.9	4572.8	4537.1	4509.5	4470.4	4455.8	4449.3	4446.0
15°	4281.8	4411.9	4561.5	4590.8	4558.3	4512.7	4465.5	4402.2	4369.6	4343.5	4351.7
17.5°	4364.8	4507.8	4623.3	4602.1	4532.2	4457.4	4381.0	4285.0	4218.4	4190.7	4192.4
20°	4480.2	4608.7	4670.4	4577.8	4472.1	4358.2	4228.1	4111.1	4049.3	4021.6	4018.3
22.5°	4620.1	4743.6	4716.0	4535.5	4385.9	4203.7	4041.2	3955.0	3924.0	3904.5	3907.8
25°	4787.6	4893.2	4748.5	4473.7	4244.4	3998.8	3873.6	3846.0	3831.3	3816.7	3816.7
27.5°	5005.5	5062.4	4772.9	4382.6	4023.2	3780.9	3735.4	3740.2	3735.4	3711.0	3715.8
30°	5293.3	5281.9	4795.7	4234.6	3769.5	3584.1	3587.4	3608.5	3611.8	3595.5	3603.7
32.5°	5672.1	5556.7	4807.0	4042.7	3527.2	3411.8	3415.0	3437.7	3454.0	3426.4	3439.4
35°	6130.8	5877.1	4789.2	3802.0	3340.3	3247.5	3223.1	3229.7	3234.5	3208.5	3226.4
37.5°	6665.8	6236.5	4709.5	3535.3	3185.7	3086.6	3034.5	2990.5	2964.6	2940.2	2956.4
40°	7252.9	6628.4	4563.1	3275.2	3013.4	2915.8	2837.7	2754.8	2666.9	2634.5	2649.1
42.5°	7867.6	7031.7	4385.9	3026.3	2815.0	2735.3	2652.3	2532.0	2400.2	2333.6	2341.7
45°	8505.0	7444.8	4211.8	2780.8	2611.7	2577.6	2481.6	2336.9	2193.7	2109.1	2102.7
47.5°	9129.5	7835.0	3956.6	2533.6	2421.5	2458.8	2384.0	2250.7	2091.3	1958.0	1943.3
50°	9726.3	8200.9	3538.6	2283.2	2266.9	2423.0	2351.5	2159.6	1977.4	1806.7	1792.1
52.5°	10318.3	8496.9	3003.6	2055.5	2184.0	2413.3	2309.2	2097.8	1875.0	1696.2	1676.6
55°	10820.7	8649.8	2488.1	1860.4	2063.6	2330.3	2258.8	2024.6	1730.3	1540.1	1523.8
57.5°	11107.0	8526.2	2058.8	1668.5	1897.8	2193.7	2172.6	1868.5	1557.9	1411.5	1392.1
60°	10983.4	8025.3	1707.5	1501.0	1740.0	2045.8	2023.0	1714.0	1426.2	1287.9	1268.4
62.5°	10302.0	7070.8	1429.5	1354.6	1596.9	1894.5	1873.4	1595.3	1325.3	1192.0	1170.9
65°	8929.5	5751.9	1213.2	1232.7	1452.2	1712.4	1743.3	1496.1	1245.7	1115.6	1094.4
67.5°	6810.5	4166.3	1044.1	1127.0	1310.8	1533.5	1623.0	1424.5	1179.0	1055.4	1035.9
70°	3881.8	2366.1	900.9	1024.5	1185.5	1367.7	1530.2	1367.7	1107.4	1005.0	992.0
72.5°	1471.7	1086.3	779.0	922.1	1065.2	1227.7	1427.8	1278.2	1024.5	948.1	935.1
75°	785.5	661.8	655.4	801.8	926.9	1091.2	1299.3	1190.3	962.7	1001.7	1034.2
77.5°	535.0	468.3	548.1	686.2	775.7	939.9	1162.8	1057.1	834.2	831.0	766.0
80°	370.7	331.8	445.6	552.9	600.0	790.4	1014.7	907.4	679.8	634.3	606.6
82.5°	222.8	216.3	333.3	413.1	424.5	609.9	840.7	761.1	556.2	484.6	487.9
85°	122.0	128.4	213.0	242.3	247.2	426.1	658.6	588.7	427.7	359.4	362.6
87.5°	34.1	43.9	78.1	95.9	118.7	221.2	392.0	349.6	214.6	149.6	149.6
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)