

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: P969872

Luminaire Tested: **NAV-SB6A-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29893.1 lumens
Efficiency: N/A
Efficacy: 174.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 170.9
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



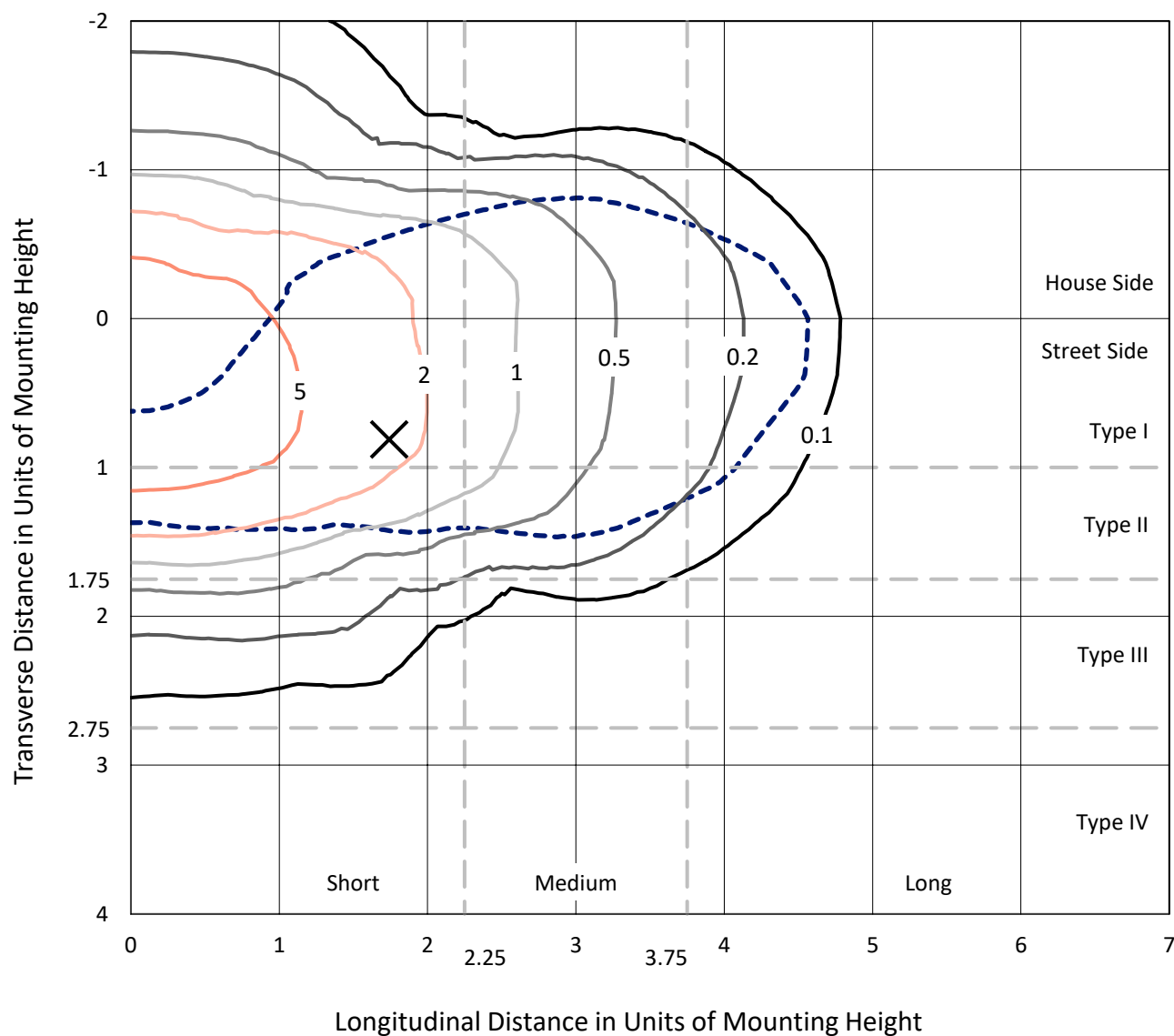
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

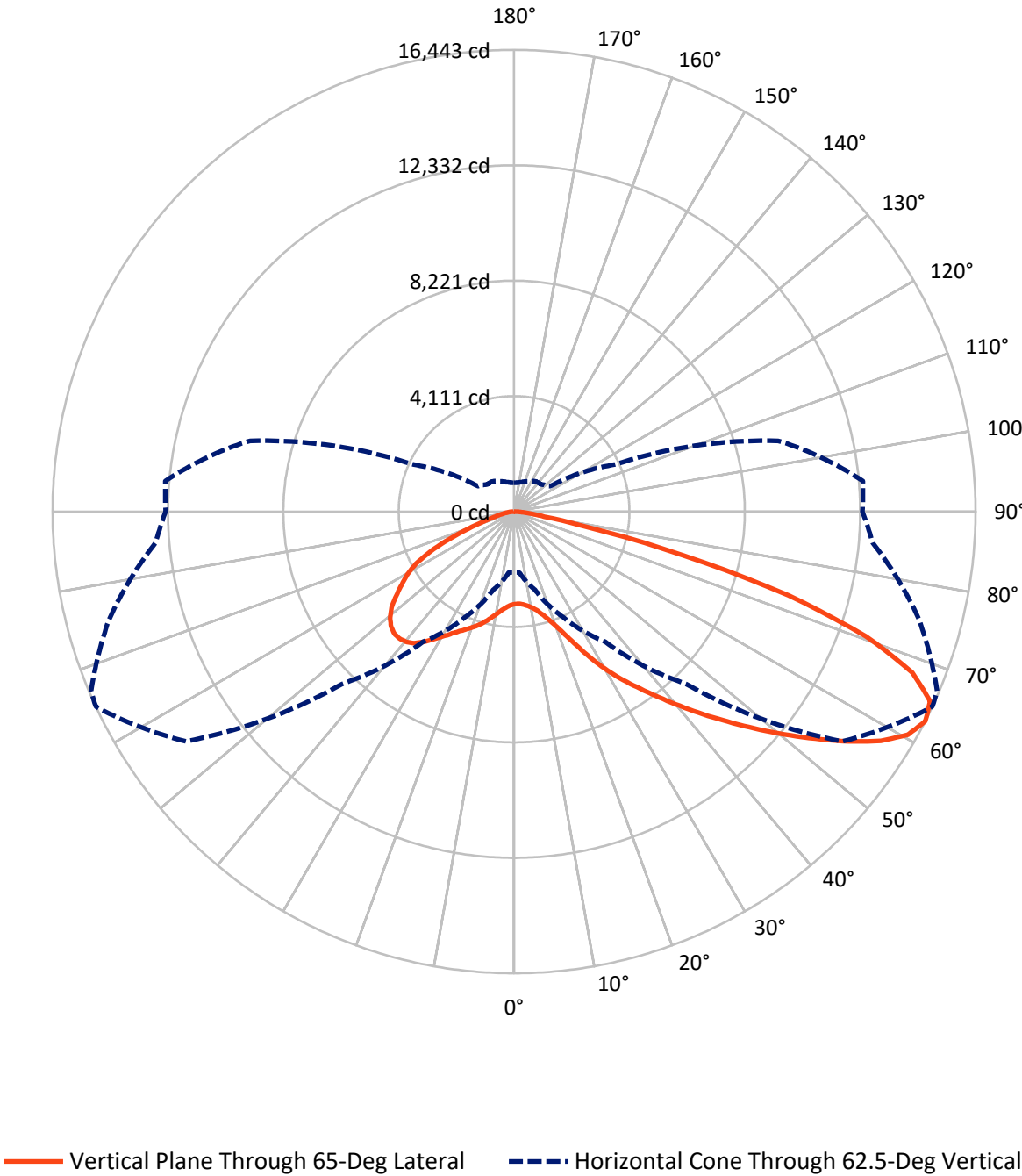


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9433.0	0.0	9433.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20460.1	0.0	20460.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	29893.1	0.0	29893.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	1.1
10°-20°	1113.7	3.7
20°-30°	2258.1	7.6
30°-40°	3907.7	13.1
40°-50°	5913.5	19.8
50°-60°	6933.2	23.2
60°-70°	5812.6	19.4
70°-80°	3209.0	10.7
80°-90°	416.8	1.4
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°	29893.1	100.0
0°-180°	29893.1	100.0

Coefficient of Utilization



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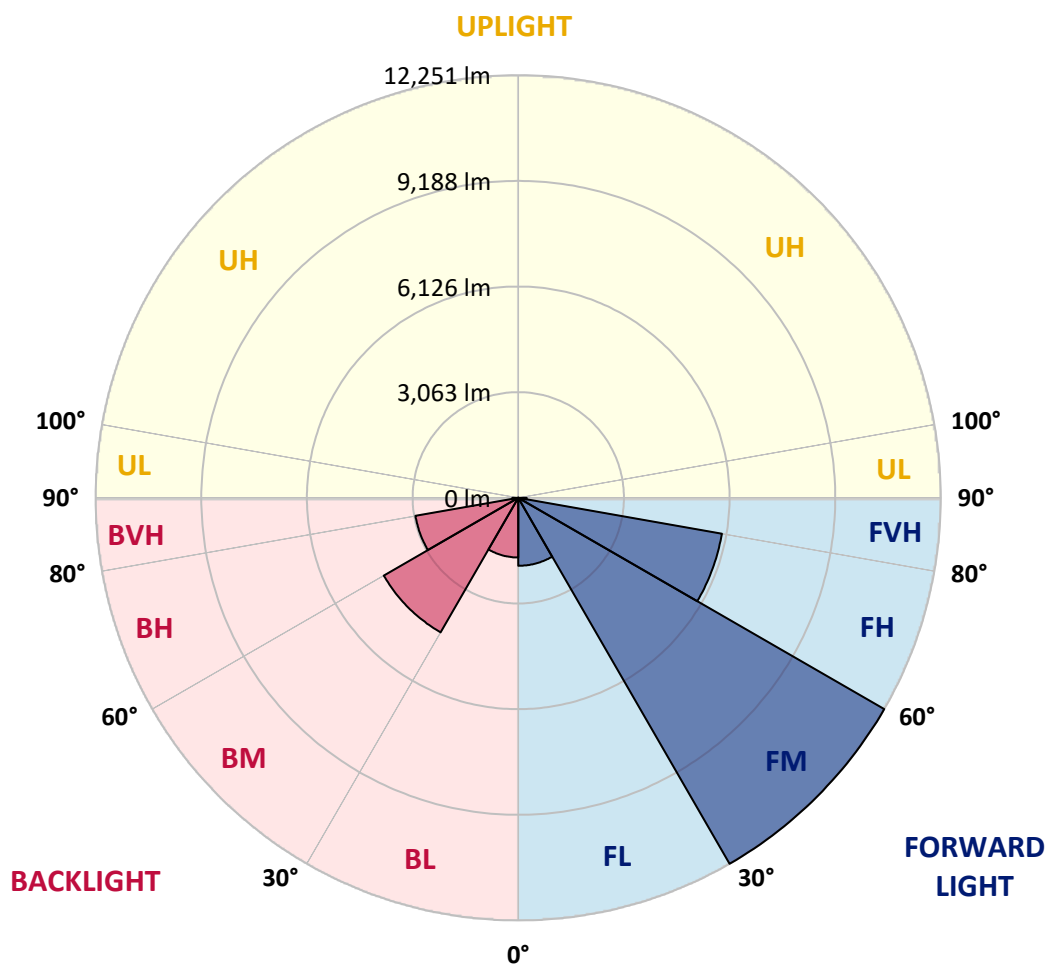
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1970.4	6.6			
FM	(30°-60°)	12251.2	41.0			
FH	(60°-80°)	5995.7	20.1			G3/7500
FVH	(80°-90°)	242.9	0.8			G3/500
BL	(0°-30°)	1729.9	5.8	B3/2500		
BM	(30°-60°)	4503.2	15.1	B3/5000		
BH	(60°-80°)	3026.0	10.1	B4/5000		G4/5000
BVH	(80°-90°)	173.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3272.4	3263.1	3270.9	3270.9	3274.0	3272.4	3283.3	3286.4	3291.0	3300.3	3300.3
5°	3239.8	3238.3	3252.2	3264.6	3277.0	3287.9	3301.8	3322.0	3325.1	3336.0	3349.9
7.5°	3229.0	3219.6	3241.4	3256.8	3286.4	3312.7	3349.9	3384.0	3398.0	3402.7	3429.0
10°	3312.7	3297.2	3317.3	3326.6	3351.4	3377.9	3421.2	3475.6	3491.0	3509.7	3539.1
12.5°	3455.4	3438.4	3467.8	3481.7	3505.0	3528.3	3557.8	3610.5	3618.2	3652.4	3680.3
15°	3650.8	3630.7	3649.2	3666.3	3705.1	3726.8	3756.2	3807.5	3807.5	3833.8	3854.0
17.5°	3916.0	3889.7	3903.6	3909.8	3934.6	3967.2	4016.8	4061.8	4085.0	4075.7	4047.8
20°	4311.5	4278.9	4278.9	4247.9	4238.6	4264.9	4330.1	4392.1	4416.9	4368.9	4300.6
22.5°	4905.4	4858.9	4832.6	4727.1	4685.3	4688.3	4753.4	4829.5	4849.6	4764.3	4610.8
25°	5660.8	5587.9	5552.2	5397.1	5302.5	5220.3	5271.5	5369.2	5397.1	5291.7	5043.5
27.5°	6416.0	6420.7	6386.6	6200.4	6043.8	5893.3	5867.0	5969.4	5998.8	5879.4	5572.3
30°	7475.3	7365.1	7300.0	7076.7	6853.4	6642.4	6533.9	6575.8	6583.6	6440.9	6084.1
32.5°	8388.8	8360.8	8221.2	8025.9	7739.0	7408.6	7227.2	7160.4	7148.0	6944.9	6521.5
35°	9429.4	9413.9	9266.6	9033.9	8723.8	8264.7	7937.5	7746.7	7731.2	7445.8	6954.2
37.5°	10487.1	10487.1	10342.9	10088.6	9767.5	9193.6	8695.8	8393.4	8343.8	7971.5	7394.7
40°	11330.8	11279.6	11306.0	11198.9	10831.4	10221.9	9537.9	9099.0	9032.4	8585.7	7863.0
42.5°	11810.0	11792.9	11951.2	12070.6	11920.1	11433.2	10465.5	9863.7	9770.6	9261.9	8402.7
45°	11917.1	11898.4	12180.7	12618.1	12829.0	12628.9	11473.4	10668.6	10555.3	9969.2	8981.2
47.5°	11670.4	11633.2	12047.3	12737.5	13413.7	13765.6	12565.3	11541.7	11377.3	10657.7	9575.2
50°	10929.2	10893.5	11520.0	12436.6	13610.6	14538.1	13750.2	12467.6	12216.4	11395.9	10175.4
52.5°	9317.8	9334.8	10316.5	11575.8	13351.6	15018.8	14770.7	13443.1	13140.7	12151.3	10738.3
55°	7258.1	7295.3	8502.0	9888.5	12315.6	14945.9	15467.0	14448.1	14147.3	12861.5	11319.9
57.5°	5197.1	5361.5	6492.0	7864.5	10325.8	13790.6	15619.1	15403.4	15111.9	13637.0	11889.1
60°	3368.6	3398.0	4561.1	5944.6	7863.0	11737.2	15310.4	16127.7	15899.7	14427.9	12365.3
62.5°	2158.9	2179.0	2887.7	4157.9	5659.2	8683.4	14271.3	16442.5	16372.7	14950.5	12822.7
65°	1586.6	1571.0	1940.1	2748.1	3812.1	5355.2	12253.6	16290.5	16428.6	15277.8	13201.2
67.5°	1324.5	1302.8	1484.2	1902.9	2808.7	3041.3	9066.5	15302.6	15808.3	15240.6	13478.7
70°	1206.6	1188.0	1298.1	1412.9	2191.4	2036.4	4570.5	13303.6	14082.1	14817.2	13433.9
72.5°	1022.0	989.4	1139.9	1254.7	1704.5	1561.8	1889.0	10218.8	11168.0	13460.2	12801.0
75°	792.5	770.8	899.5	1104.2	1281.0	1219.0	1194.2	6205.1	7241.1	10409.6	11198.9
77.5°	628.1	598.6	716.5	860.8	1152.3	919.6	870.0	2672.2	3698.9	6645.6	8379.5
80°	473.0	446.7	544.4	680.8	885.6	693.2	562.9	1090.3	1394.2	3367.0	4213.8
82.5°	336.5	313.2	380.0	499.4	595.5	621.9	345.8	611.0	687.1	1298.1	941.4
85°	215.6	201.6	254.3	313.2	378.4	400.2	210.9	319.5	350.5	535.0	392.4
87.5°	117.9	96.1	136.4	145.8	175.3	159.7	100.8	116.3	125.7	193.8	165.9
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°	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3306.5	3311.2	3326.6	3331.4	3342.2	3356.2	3365.4	3374.7	3374.7	3384.0	3384.0
5°	3351.4	3362.3	3394.9	3411.9	3439.9	3467.8	3484.9	3505.0	3517.4	3523.6	3526.7
7.5°	3438.4	3455.4	3501.9	3531.3	3579.4	3618.2	3644.6	3672.5	3678.7	3695.7	3689.6
10°	3556.2	3576.3	3629.1	3684.9	3742.3	3790.3	3815.2	3835.3	3843.1	3846.2	3838.4
12.5°	3691.1	3720.5	3788.8	3857.1	3917.6	3959.5	3965.6	3961.0	3939.3	3920.6	3920.6
15°	3857.1	3883.4	3959.5	4033.9	4092.8	4100.5	4061.8	4037.0	4010.6	4005.9	4005.9
17.5°	4055.6	4069.6	4139.4	4212.2	4216.8	4190.5	4133.1	4109.8	4085.0	4068.0	4069.6
20°	4286.7	4282.0	4331.6	4362.6	4330.1	4249.4	4162.6	4123.8	4099.0	4078.9	4080.4
22.5°	4562.7	4527.0	4520.9	4513.1	4426.3	4257.2	4139.4	4089.6	4050.9	4023.0	4032.3
25°	4964.4	4828.0	4733.3	4680.6	4485.2	4215.3	4064.8	3954.8	3881.9	3833.8	3852.4
27.5°	5466.8	5237.3	4998.5	4869.8	4485.2	4130.0	3885.0	3706.6	3587.2	3537.6	3562.4
30°	5946.1	5705.8	5353.7	5097.7	4474.3	3990.4	3595.0	3346.8	3207.2	3157.6	3187.0
32.5°	6355.5	6093.4	5730.6	5347.4	4448.0	3764.0	3235.1	2960.6	2825.7	2766.8	2796.3
35°	6735.5	6456.4	6109.0	5622.0	4378.2	3432.1	2839.7	2630.4	2479.9	2385.3	2416.3
37.5°	7124.8	6792.9	6467.2	5870.1	4252.5	3044.4	2535.7	2357.4	2180.6	2053.4	2087.5
40°	7548.2	7151.1	6850.3	6017.5	4046.3	2675.2	2300.0	2137.1	1949.4	1814.6	1840.9
42.5°	8042.9	7580.8	7276.8	6093.4	3764.0	2413.2	2146.5	1986.7	1809.8	1699.8	1721.5
45°	8559.4	8053.7	7666.1	6091.9	3449.2	2290.7	2096.8	1938.6	1743.2	1628.4	1647.1
47.5°	9100.7	8548.5	8002.6	5992.7	3176.3	2307.7	2068.9	1834.7	1619.1	1507.5	1522.9
50°	9643.4	9089.8	8328.2	5806.5	3059.9	2270.5	1965.0	1688.9	1434.6	1333.7	1340.0
52.5°	10181.6	9665.1	8609.0	5541.4	2942.1	2132.5	1831.6	1499.7	1358.5	1288.8	1288.8
55°	10722.8	10234.3	8914.5	5155.1	2647.4	1971.2	1608.2	1428.3	1298.1	1234.5	1228.3
57.5°	11265.7	10891.9	9204.5	4769.0	2276.7	1772.6	1485.7	1341.5	1237.6	1183.4	1174.0
60°	11830.1	11644.1	9503.9	4413.9	1910.7	1518.3	1395.8	1271.7	1166.2	1105.8	1101.2
62.5°	12411.7	12472.3	9738.0	3956.3	1574.2	1363.2	1315.2	1188.0	1085.6	1028.3	1026.6
65°	12998.0	13271.0	9891.6	3322.0	1276.4	1215.9	1228.3	1096.4	992.6	942.9	941.4
67.5°	13440.0	13846.3	9848.2	2514.0	1046.8	1076.4	1119.7	1000.3	902.6	863.9	865.4
70°	13489.6	13778.2	9420.1	1721.5	876.3	939.8	998.8	905.7	804.9	776.9	778.6
72.5°	12829.0	12847.6	8227.5	1124.4	741.3	825.0	871.6	809.5	711.9	684.0	682.3
75°	11096.6	10625.2	6040.7	741.3	620.3	708.8	752.1	708.8	614.2	620.3	598.6
77.5°	8407.4	7524.9	3667.9	527.3	518.0	595.5	654.5	623.5	542.8	609.5	536.6
80°	4331.6	4071.1	1636.2	393.9	409.4	476.1	538.1	497.8	429.6	409.4	373.7
82.5°	992.6	1153.8	645.1	282.3	296.2	342.8	411.0	373.7	308.6	260.6	257.5
85°	347.4	380.0	285.4	176.8	173.7	214.0	279.2	249.7	209.4	167.5	176.8
87.5°	110.1	144.2	107.0	71.3	74.4	96.1	128.7	117.9	97.7	63.6	66.7
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)