

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: P969877

Luminaire Tested: **NAV-SB6A-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29517.9 lumens
Efficiency: N/A
Efficacy: 172.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

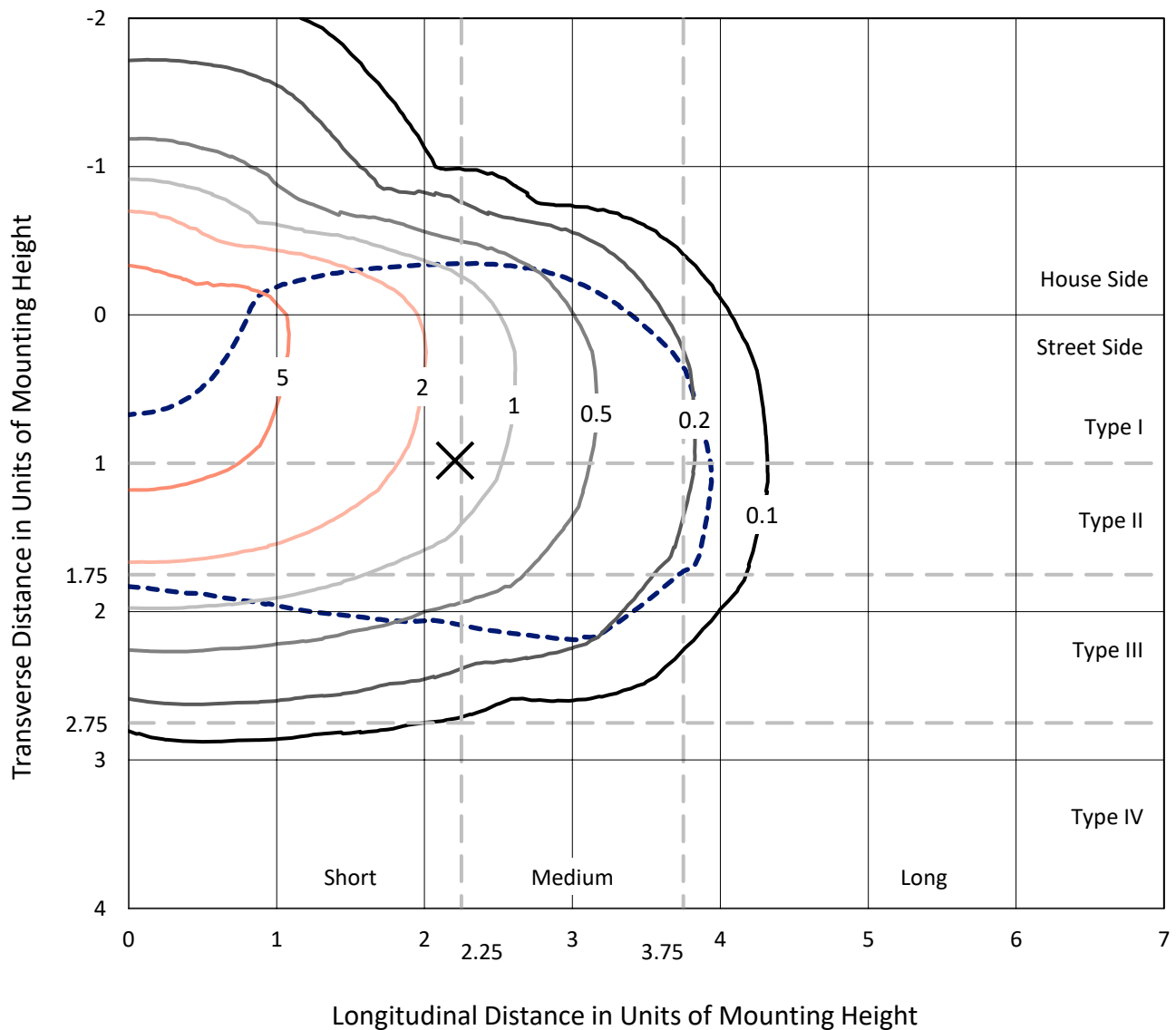
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

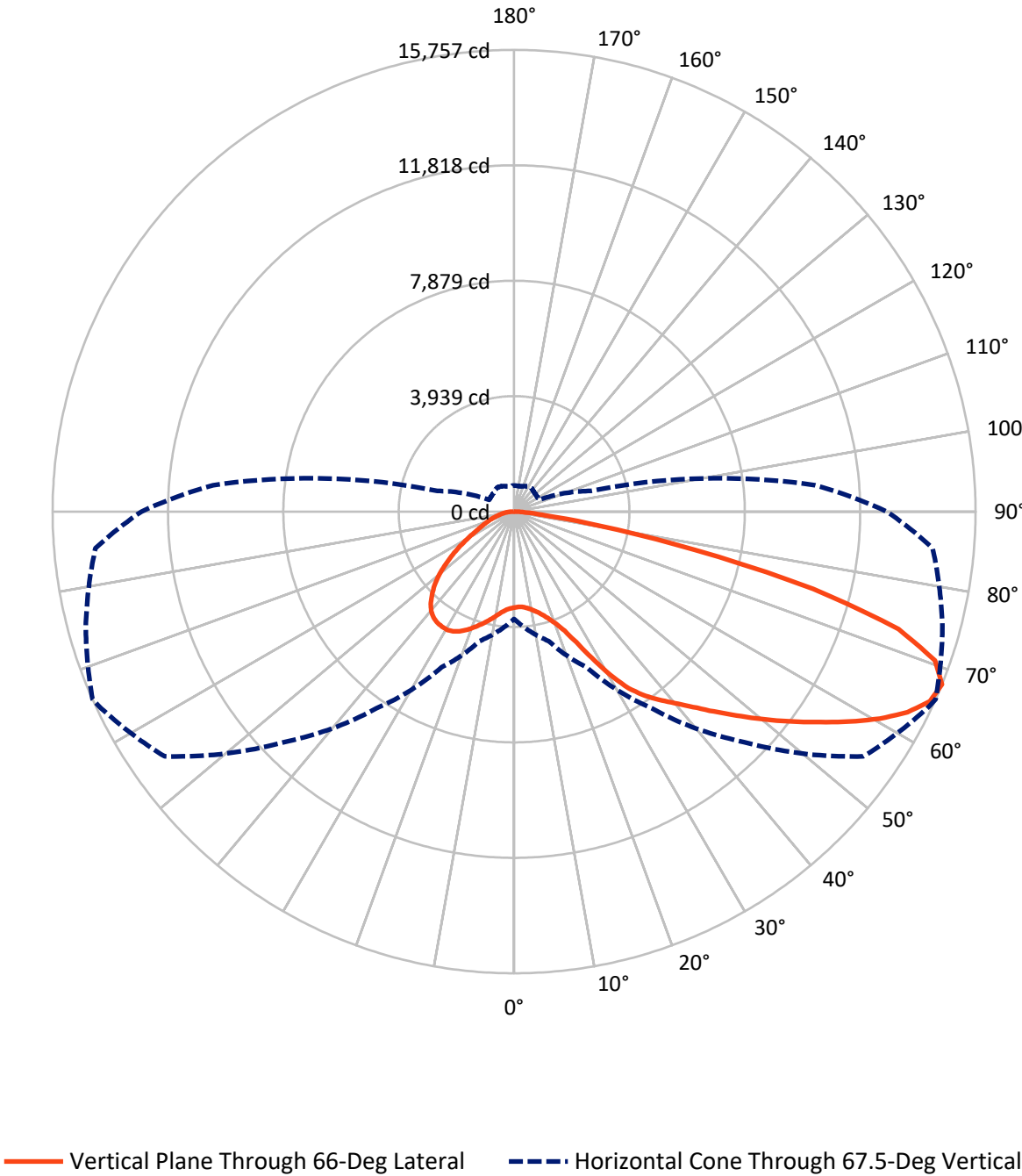
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7339.6	0.0	7339.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22178.4	0.0	22178.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	29517.9	0.0	29517.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	1.1
10°-20°	1072.4	3.6
20°-30°	2067.0	7.0
30°-40°	3624.3	12.3
40°-50°	5388.1	18.3
50°-60°	6830.0	23.1
60°-70°	6683.0	22.6
70°-80°	3187.8	10.8
80°-90°	340.7	1.2
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°	29517.9	100.0
0°-180°	29517.9	100.0

Coefficient of Utilization



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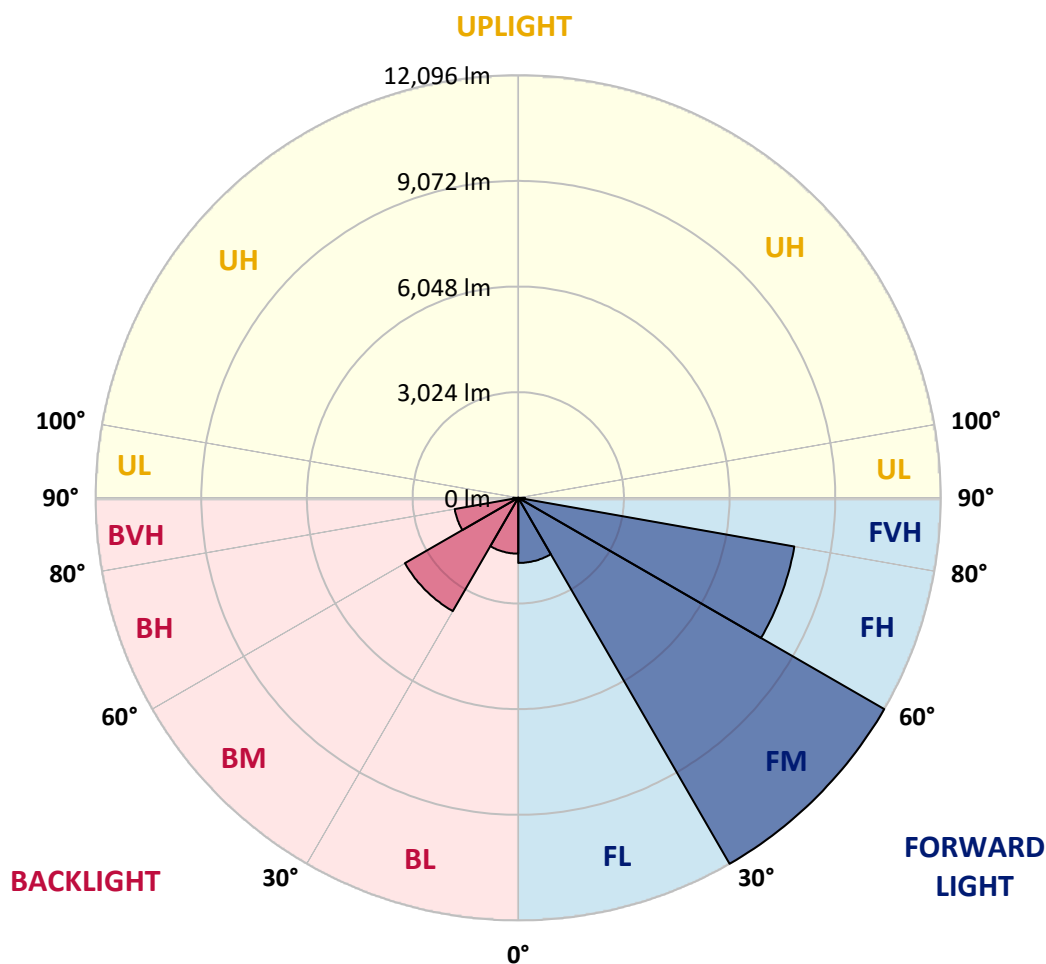
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1865.2	6.3			
FM	(30°-60°)	12096.2	41.0			
FH	(60°-80°)	8023.8	27.2			G4/12000
FVH	(80°-90°)	193.2	0.7			G2/225
BL	(0°-30°)	1598.8	5.4	B3/2500		
BM	(30°-60°)	3746.2	12.7	B3/5000		
BH	(60°-80°)	1847.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	147.5	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0
2.5°	3239.8	3258.4	3253.8	3246.0	3244.4	3247.6	3252.2	3256.8	3255.3	3263.1	3275.5
5°	3230.5	3249.1	3247.6	3247.6	3253.8	3266.2	3274.0	3281.6	3274.0	3283.3	3300.3
7.5°	3236.7	3250.7	3256.8	3263.1	3278.6	3301.8	3320.5	3337.5	3328.2	3339.0	3360.8
10°	3315.8	3326.6	3332.9	3332.9	3343.8	3370.1	3388.6	3419.7	3411.9	3429.0	3456.9
12.5°	3460.0	3470.9	3470.9	3464.7	3472.5	3489.5	3495.7	3529.8	3515.9	3543.8	3571.7
15°	3636.8	3658.5	3641.5	3630.7	3633.7	3650.8	3649.2	3675.6	3661.6	3684.9	3709.7
17.5°	3832.3	3860.2	3832.3	3830.7	3824.5	3843.1	3844.7	3867.9	3843.1	3860.2	3877.3
20°	4063.3	4102.2	4078.9	4086.6	4072.6	4080.4	4088.1	4122.2	4083.5	4095.9	4091.3
22.5°	4389.0	4435.6	4410.8	4440.2	4430.9	4424.7	4423.2	4483.7	4423.2	4427.8	4382.8
25°	4863.6	4919.4	4876.0	4916.3	4916.3	4936.5	4959.8	5037.3	4936.5	4907.0	4790.7
27.5°	5564.6	5620.4	5535.1	5559.9	5552.2	5601.8	5577.0	5769.3	5660.8	5612.7	5378.5
30°	6408.3	6507.5	6346.3	6340.0	6332.2	6411.4	6447.0	6574.2	6464.2	6416.0	6133.8
32.5°	7320.2	7424.1	7231.8	7175.9	7146.5	7194.6	7165.2	7267.5	7191.5	7117.1	6768.1
35°	8284.9	8387.3	8204.2	8095.7	7977.8	7877.0	7771.6	7797.9	7726.6	7613.3	7252.0
37.5°	9196.8	9384.5	9190.6	9074.2	8857.1	8660.2	8365.5	8242.9	8176.3	8072.4	7707.9
40°	10125.8	10232.8	10085.5	9986.2	9750.4	9441.8	8970.4	8711.4	8621.4	8520.6	8212.0
42.5°	10809.8	10912.0	10833.0	10764.8	10580.2	10221.9	9612.4	9288.2	9158.0	9044.8	8782.7
45°	11352.5	11428.5	11378.9	11403.7	11324.6	10977.2	10277.8	9907.1	9772.1	9634.2	9427.8
47.5°	11571.2	11651.9	11730.9	11878.3	12013.2	11757.3	10992.7	10577.1	10434.4	10293.3	10090.1
50°	11546.4	11628.6	11858.1	12171.4	12590.2	12504.8	11746.4	11290.5	11158.7	10997.3	10809.8
52.5°	11347.9	11440.9	11735.6	12256.6	12923.6	13064.8	12514.1	12027.1	11903.1	11710.7	11523.2
55°	10826.8	10882.6	11324.6	12062.8	13002.6	13455.5	13266.4	12811.9	12687.9	12419.5	12214.8
57.5°	9860.6	9941.2	10584.9	11540.2	12804.2	13720.8	13927.0	13637.0	13517.6	13131.4	12917.4
60°	8599.6	8728.4	9465.1	10662.4	12298.6	13719.2	14527.2	14448.1	14348.9	13832.4	13609.0
62.5°	7172.8	7321.8	8030.5	9421.7	11414.6	13329.9	14902.5	15127.4	15076.2	14479.2	14193.8
65°	5508.8	5611.2	6316.8	7816.4	10039.0	12493.9	14945.9	15591.1	15600.4	14970.7	14499.2
67.5°	3667.9	3962.5	4575.1	5865.5	8196.4	11127.6	14564.4	15667.1	15757.0	15139.8	14345.7
70°	1789.8	2177.4	2777.6	3812.1	5865.5	9032.4	13567.2	15043.6	15243.7	14646.6	13430.7
72.5°	742.9	868.5	1195.8	1881.2	3367.0	6095.0	11563.4	13353.2	13723.8	12977.8	11292.0
75°	500.9	542.8	684.0	964.6	1533.8	3005.6	8339.1	9956.7	10553.8	9801.7	8011.9
77.5°	386.2	412.6	497.8	674.7	911.9	1136.8	4463.5	6000.3	6309.0	5840.7	4168.8
80°	304.0	324.1	372.2	491.6	646.7	607.9	1521.4	2718.7	2897.1	2430.3	1340.0
82.5°	263.6	271.4	266.7	333.4	429.6	355.2	499.4	1003.5	1107.3	803.4	437.4
85°	190.8	212.5	221.8	206.2	228.0	179.9	204.7	355.2	390.8	348.9	246.6
87.5°	77.6	114.8	141.1	133.4	83.7	51.1	63.6	103.9	119.4	130.3	80.7
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°	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0
2.5°	3277.0	3287.9	3295.7	3304.9	3311.2	3320.5	3339.0	3349.9	3351.4	3359.2	3357.7
5°	3306.5	3322.0	3339.0	3363.8	3391.8	3415.1	3450.8	3475.6	3484.9	3492.6	3491.0
7.5°	3370.1	3391.8	3422.8	3466.2	3506.5	3537.6	3581.0	3610.5	3640.0	3650.8	3652.4
10°	3464.7	3495.7	3540.7	3599.6	3643.1	3683.3	3728.3	3753.1	3782.7	3795.1	3801.2
12.5°	3582.6	3615.2	3674.0	3756.2	3796.6	3824.5	3840.0	3833.8	3840.0	3850.8	3854.0
15°	3717.5	3753.1	3819.9	3908.2	3936.2	3911.3	3877.3	3846.2	3841.6	3844.7	3855.5
17.5°	3877.3	3903.6	3981.1	4055.6	4035.4	3933.0	3858.6	3809.0	3784.2	3776.4	3787.3
20°	4100.5	4100.5	4164.2	4210.7	4075.7	3902.1	3785.7	3705.1	3653.9	3632.2	3627.6
22.5°	4371.9	4347.1	4387.5	4354.9	4068.0	3815.2	3653.9	3514.3	3436.8	3405.8	3401.2
25°	4716.2	4686.8	4675.9	4474.3	4012.2	3677.2	3415.1	3246.0	3177.8	3160.7	3163.9
27.5°	5235.8	5161.4	5020.2	4539.4	3909.8	3460.0	3135.9	2979.3	2940.5	2942.1	2946.7
30°	5927.5	5778.6	5432.8	4550.3	3742.3	3153.0	2850.5	2738.9	2720.2	2728.0	2754.4
32.5°	6568.0	6426.9	5854.6	4500.7	3484.9	2852.1	2594.7	2520.2	2492.3	2501.6	2514.0
35°	7070.6	7031.7	6245.4	4430.9	3168.5	2569.8	2365.1	2301.5	2247.2	2234.8	2244.1
37.5°	7545.1	7529.5	6538.6	4333.2	2855.2	2369.8	2180.6	2096.8	2017.7	1974.3	1975.8
40°	8066.1	8050.7	6730.9	4182.7	2577.6	2196.1	2014.6	1904.4	1806.8	1727.7	1735.4
42.5°	8652.4	8560.9	6822.4	3967.2	2341.8	2048.8	1879.6	1730.8	1602.1	1529.2	1533.8
45°	9293.0	9086.6	6820.9	3692.7	2143.4	1913.8	1735.4	1524.5	1405.1	1336.9	1333.7
47.5°	9972.2	9589.2	6737.1	3388.6	1951.0	1764.9	1512.1	1350.8	1271.7	1229.9	1220.6
50°	10673.2	10059.0	6594.3	3039.7	1754.1	1595.8	1372.6	1262.4	1201.9	1163.2	1149.2
52.5°	11332.4	10485.5	6422.2	2644.3	1554.0	1431.5	1310.5	1225.2	1161.6	1118.2	1099.6
55°	11944.9	10853.1	6178.7	2239.5	1391.1	1321.3	1281.0	1209.7	1136.8	1085.6	1065.5
57.5°	12489.3	11091.9	5758.4	1859.6	1274.8	1245.4	1250.0	1183.4	1099.6	1056.2	1028.3
60°	12942.2	11267.2	5136.6	1507.5	1180.2	1171.0	1201.9	1133.8	1036.0	986.4	964.6
62.5°	13213.6	11264.1	4373.5	1234.5	1099.6	1102.7	1138.4	1071.6	972.4	925.9	911.9
65°	13190.3	10988.1	3536.0	1056.2	1022.0	1025.1	1071.6	1003.5	919.6	891.7	890.2
67.5°	12723.5	10315.0	2712.5	939.8	936.7	950.7	1005.0	956.9	887.1	884.0	888.7
70°	11459.5	8917.6	1954.2	846.8	848.3	868.5	939.8	927.4	870.0	876.3	874.7
72.5°	9189.0	6799.1	1312.1	749.1	750.6	783.2	877.8	904.2	853.0	935.2	947.6
75°	6119.9	4240.1	843.7	645.1	646.7	688.6	823.5	859.2	806.5	932.1	939.8
77.5°	2940.5	1906.1	611.0	542.8	542.8	581.6	711.9	769.3	687.1	724.3	663.8
80°	1015.9	716.5	480.7	437.4	428.0	454.4	600.2	666.9	592.4	545.9	511.8
82.5°	400.2	372.2	386.2	339.7	308.6	325.6	466.8	550.5	435.8	393.9	392.4
85°	229.5	241.9	273.0	224.9	178.4	200.1	342.8	395.4	328.8	290.0	296.2
87.5°	62.0	85.3	125.7	116.3	80.7	85.3	162.9	218.6	189.2	145.8	150.5
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)