

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: P964063

Luminaire Tested: **NAV-SB3B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17905.7 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

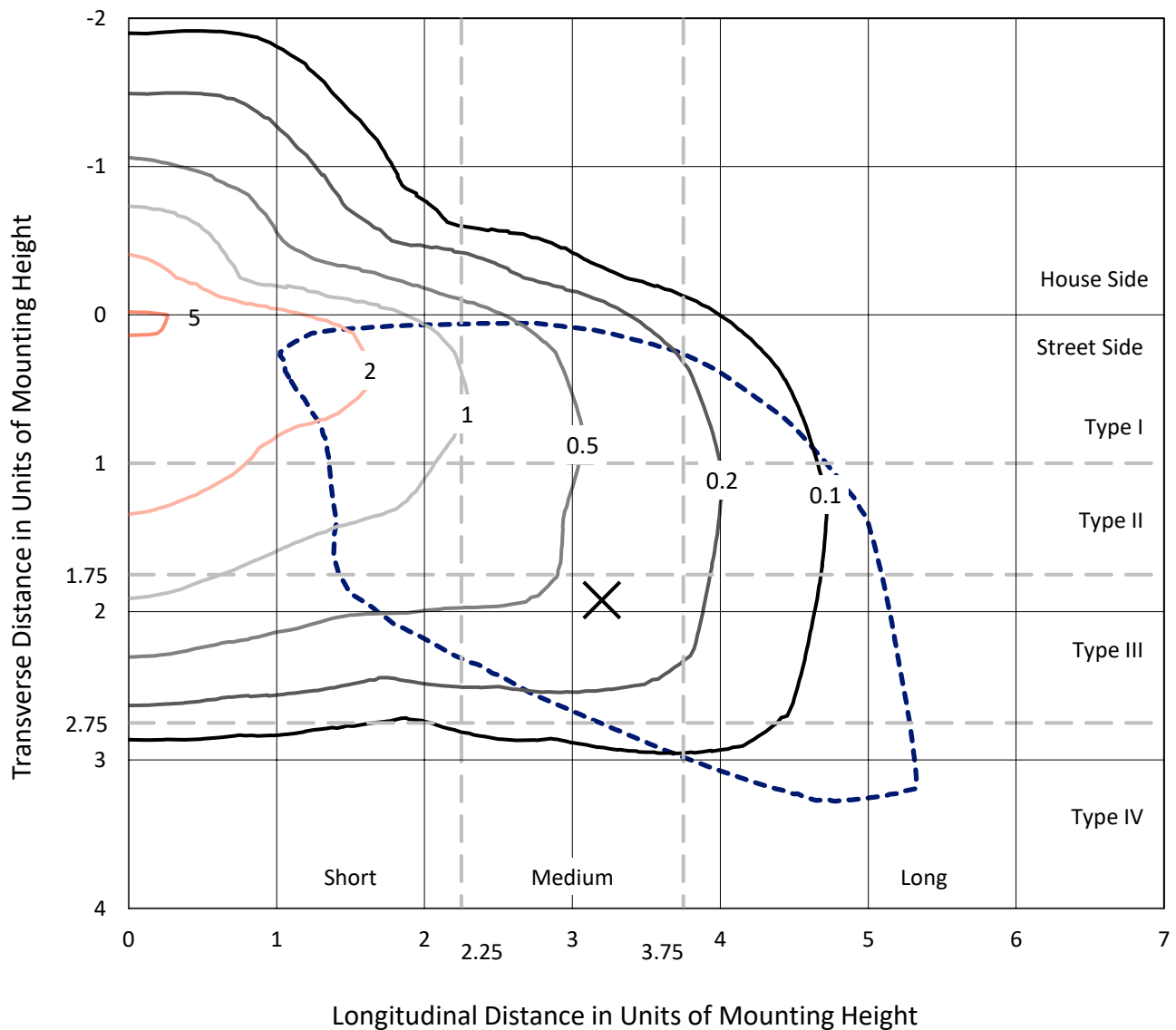
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

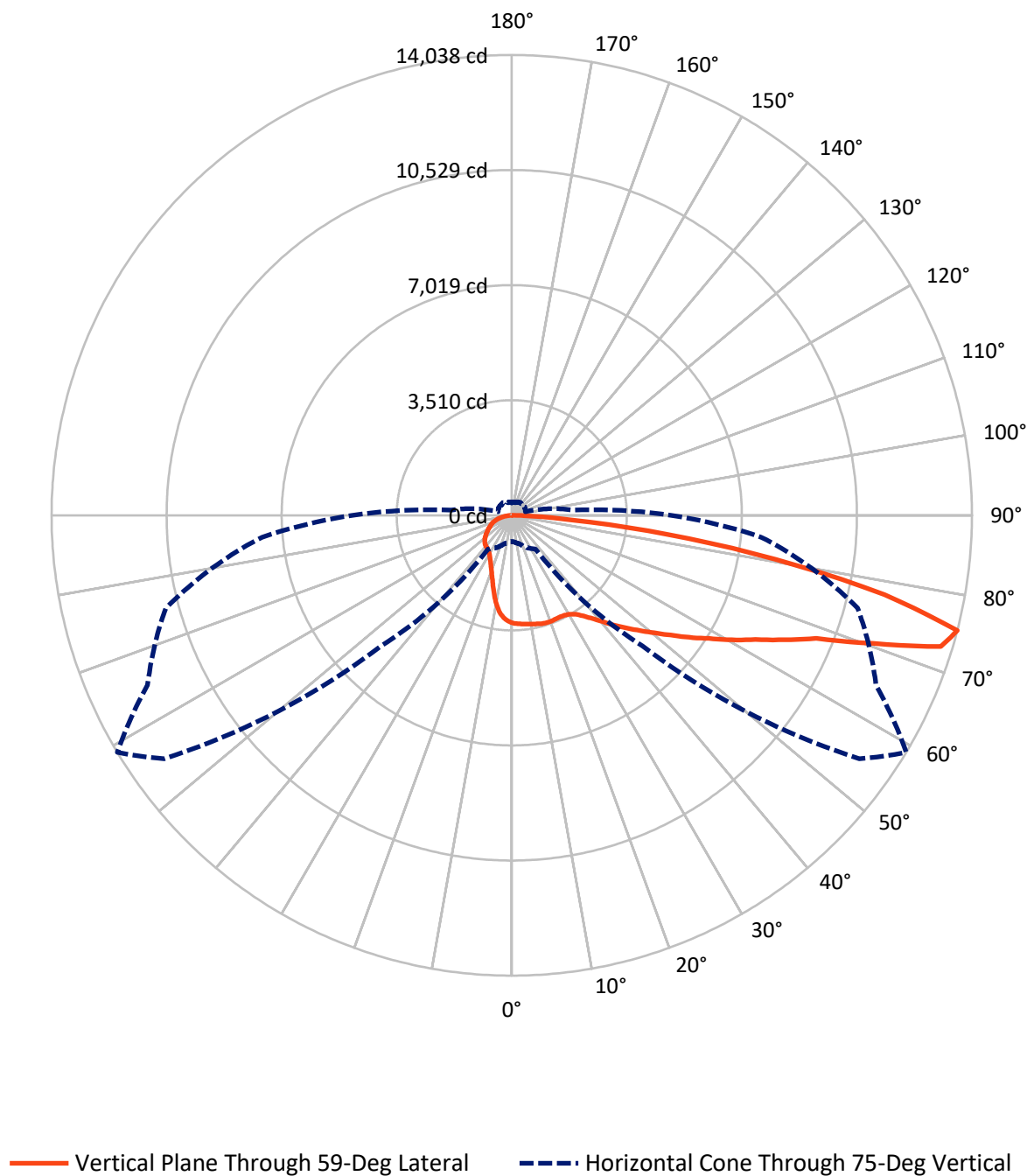
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3358.3	0.0	3358.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14547.4	0.0	14547.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	17905.7	0.0	17905.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	1.6
10°-20°	753.3	4.2
20°-30°	1144.1	6.4
30°-40°	1700.7	9.5
40°-50°	2529.3	14.1
50°-60°	3433.2	19.2
60°-70°	4191.4	23.4
70°-80°	3289.3	18.4
80°-90°	569.8	3.2
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°	17905.7	100.0
0°-180°	17905.7	100.0

Coefficient of Utilization



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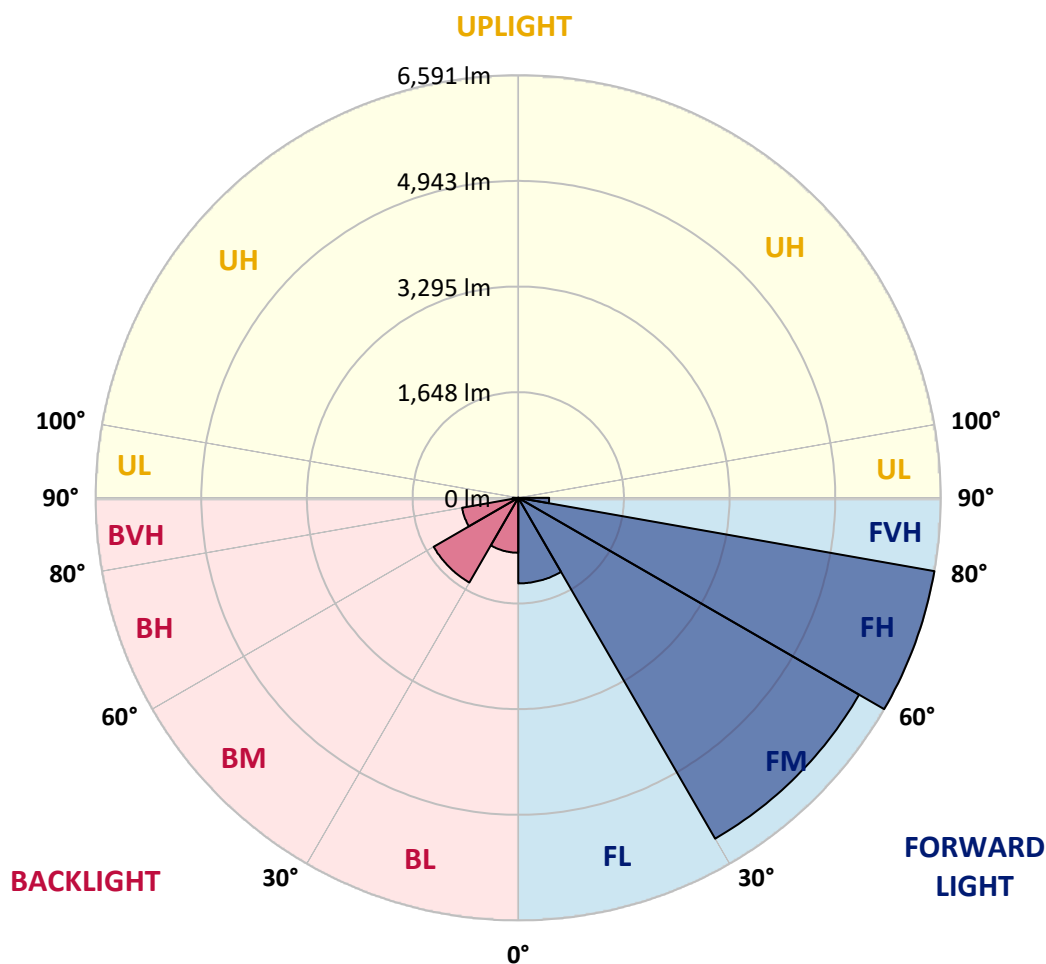
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1335.1	7.5			
FM	(30°-60°)	6138.8	34.3			
FH	(60°-80°)	6590.9	36.8			G3/7500
FVH	(80°-90°)	482.6	2.7			G3/500
BL	(0°-30°)	857.0	4.8	B2/1000		
BM	(30°-60°)	1524.4	8.5	B2/2500		
BH	(60°-80°)	889.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	87.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6
2.5°	3314.4	3303.0	3314.4	3309.6	3307.8	3303.9	3304.9	3311.6	3307.8	3312.6	3296.2
5°	3292.3	3285.6	3297.1	3294.2	3306.8	3308.7	3321.2	3328.9	3333.7	3334.7	3322.2
7.5°	3255.7	3248.9	3265.3	3278.9	3305.8	3313.5	3339.6	3352.1	3358.8	3370.4	3352.1
10°	3121.8	3119.0	3159.5	3210.5	3274.1	3313.5	3353.0	3374.2	3384.8	3415.6	3394.4
12.5°	2884.9	2888.8	2941.7	3039.9	3167.1	3294.2	3368.5	3399.2	3415.6	3454.1	3444.5
15°	2658.5	2657.5	2715.3	2820.4	2998.5	3209.5	3376.1	3429.1	3457.0	3513.9	3506.2
17.5°	2527.5	2523.7	2564.1	2644.1	2809.7	3079.5	3356.9	3445.5	3505.2	3576.5	3569.8
20°	2503.5	2495.8	2516.9	2556.5	2673.9	2936.9	3306.8	3445.5	3543.7	3636.2	3632.4
22.5°	2591.1	2578.6	2569.9	2565.1	2617.1	2819.4	3250.0	3434.0	3600.6	3722.0	3715.2
25°	2767.4	2748.1	2703.8	2660.5	2645.0	2766.4	3199.8	3431.1	3685.3	3837.5	3812.5
27.5°	3052.4	3028.4	2938.8	2834.8	2741.4	2793.3	3177.7	3448.4	3778.8	3959.9	3909.8
30°	3406.0	3380.0	3267.3	3107.4	2939.8	2893.6	3205.7	3499.5	3898.2	4122.7	4024.4
32.5°	3722.9	3694.0	3597.6	3434.9	3208.6	3066.9	3294.2	3596.7	4086.1	4349.0	4196.9
35°	4004.2	3970.4	3883.7	3733.5	3538.0	3310.6	3454.1	3769.1	4352.9	4716.9	4430.9
37.5°	4279.7	4240.1	4145.7	3986.8	3850.0	3635.3	3674.7	3990.6	4707.3	5164.0	4741.0
40°	4587.9	4531.0	4416.4	4259.4	4126.5	4015.7	3964.7	4262.4	5067.6	5662.8	5128.3
42.5°	4886.5	4832.6	4695.7	4561.9	4395.2	4363.4	4300.8	4580.2	5461.5	6210.9	5521.3
45°	5208.2	5143.7	4978.0	4808.5	4703.5	4594.7	4626.4	4898.1	5847.8	6769.6	5933.5
47.5°	5509.7	5437.4	5242.0	5053.1	4995.3	4789.2	4925.0	5247.7	6249.4	7336.0	6342.0
50°	5672.5	5601.2	5438.4	5267.9	5222.7	5029.1	5248.6	5632.1	6670.4	7900.5	6733.9
52.5°	5808.3	5731.3	5518.4	5424.0	5410.5	5290.1	5647.4	6071.3	7091.4	8399.4	7112.5
55°	5952.8	5867.1	5595.5	5510.7	5572.3	5582.9	6120.4	6569.2	7536.3	8885.8	7469.9
57.5°	6119.5	6010.6	5669.6	5583.9	5730.3	5925.8	6663.6	7085.5	7973.7	9336.6	7787.7
60°	6276.5	6166.6	5812.2	5700.4	5900.8	6323.6	7286.8	7710.7	8468.8	9738.3	8088.3
62.5°	6307.2	6216.7	5925.8	5924.8	6132.0	6788.0	8024.7	8341.7	8901.2	10135.2	8358.0
65°	5773.6	5716.8	5544.3	5916.2	6463.3	7456.4	8846.4	9148.8	9451.2	10482.0	8594.9
67.5°	4394.3	4402.0	4389.5	5107.1	6195.5	8416.8	10036.0	10012.8	10130.4	10871.0	8867.6
70°	2009.3	2054.6	2349.3	3525.5	4963.6	8527.5	12002.9	11703.3	10982.8	11374.8	9103.5
72.5°	1085.6	1120.2	1240.7	1707.9	2984.1	7581.6	13472.8	13685.6	12116.5	11713.9	8844.4
75°	796.6	815.9	899.6	1085.6	1253.2	5634.9	12945.9	14038.2	12258.1	10923.1	7637.5
77.5°	596.2	605.0	673.3	860.2	641.5	2970.7	10344.2	11626.3	10493.4	8974.5	5641.7
80°	432.4	442.1	493.1	645.3	449.9	1086.5	7102.8	8160.5	7186.7	5720.6	2811.7
82.5°	298.6	302.5	324.6	439.2	314.1	421.9	4030.2	4785.3	4011.8	2007.4	759.0
85°	180.1	184.9	194.5	256.2	178.2	200.4	1739.6	1799.3	1199.2	479.7	236.0
87.5°	74.2	79.0	86.7	107.9	70.3	55.9	287.0	360.3	224.5	140.6	73.2
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°	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6	3286.6
2.5°	3291.4	3284.6	3266.4	3241.3	3218.2	3189.3	3176.8	3166.1	3156.5	3138.2	3129.5
5°	3311.6	3293.3	3244.1	3180.6	3108.3	3029.4	2952.3	2899.3	2854.1	2820.4	2792.4
7.5°	3342.4	3307.8	3218.2	3088.1	2922.5	2752.9	2599.8	2491.0	2409.1	2379.2	2327.2
10°	3374.2	3332.8	3176.8	2947.5	2661.4	2400.3	2197.1	2085.4	2019.9	1998.7	1966.0
12.5°	3411.8	3351.1	3112.2	2751.9	2369.6	2083.5	1906.2	1840.7	1807.1	1795.5	1798.4
15°	3466.7	3366.5	3014.9	2507.3	2091.2	1852.3	1737.7	1692.4	1675.1	1674.1	1677.9
17.5°	3508.1	3369.4	2863.6	2245.3	1877.4	1712.7	1618.3	1600.8	1612.4	1629.7	1636.5
20°	3554.3	3343.3	2665.3	2006.4	1727.1	1590.3	1550.8	1562.4	1590.3	1615.3	1624.0
22.5°	3587.1	3296.2	2425.5	1820.5	1597.1	1520.0	1518.0	1542.1	1557.6	1570.1	1576.9
25°	3616.0	3216.2	2171.2	1664.5	1490.1	1477.6	1498.8	1491.1	1480.5	1491.1	1497.8
27.5°	3637.2	3090.1	1943.8	1527.7	1415.0	1448.7	1436.2	1418.8	1417.9	1423.6	1433.3
30°	3630.4	2921.5	1757.0	1397.7	1362.0	1394.7	1364.9	1362.0	1359.1	1362.0	1372.6
32.5°	3630.4	2729.8	1613.5	1308.1	1328.3	1315.8	1312.9	1306.2	1294.6	1293.7	1306.2
35°	3650.6	2538.1	1490.1	1259.9	1300.4	1270.5	1272.4	1256.0	1231.9	1220.5	1231.9
37.5°	3692.0	2384.0	1367.8	1236.8	1251.2	1250.3	1242.6	1214.6	1172.3	1135.7	1148.2
40°	3792.3	2338.7	1284.0	1226.2	1228.2	1239.6	1219.4	1165.5	1069.2	1009.4	1017.2
42.5°	3949.2	2414.8	1265.7	1200.2	1212.7	1224.3	1184.8	1059.5	991.2	955.5	955.5
45°	4148.7	2547.7	1305.1	1162.7	1176.1	1196.4	1078.8	1019.1	988.3	989.2	994.0
47.5°	4401.0	2687.4	1378.4	1129.9	1123.1	1134.7	1008.5	971.9	929.5	940.1	967.1
50°	4692.9	2829.0	1447.7	1085.6	1064.4	1026.8	963.2	928.5	874.6	849.6	856.3
52.5°	5008.9	2965.8	1475.7	1031.7	1000.8	957.5	932.4	890.0	824.5	783.1	782.2
55°	5308.4	3090.1	1444.8	967.1	937.3	903.5	899.6	873.6	803.3	745.6	745.6
57.5°	5591.6	3194.1	1367.8	901.6	872.7	852.5	878.4	865.9	777.4	703.2	699.4
60°	5831.4	3265.3	1256.0	835.2	814.9	804.3	843.8	840.0	740.8	657.8	655.0
62.5°	6022.2	3293.3	1132.7	771.5	766.7	747.4	795.6	795.6	694.5	613.6	610.7
65°	6171.4	3266.4	1007.6	708.9	718.5	689.7	736.9	731.1	645.3	574.1	570.2
67.5°	6303.4	3177.7	868.8	647.3	669.4	632.8	675.3	661.7	591.4	534.6	530.7
70°	6362.2	2971.6	710.8	585.7	612.6	577.0	613.6	588.6	530.7	492.2	484.5
72.5°	5890.2	2469.7	559.6	521.1	544.3	515.4	547.1	518.2	465.2	447.9	433.5
75°	4873.0	1853.3	430.6	450.8	468.1	446.0	467.2	446.0	397.8	410.3	374.7
77.5°	3538.9	1251.2	329.4	376.6	384.4	372.8	391.0	367.0	323.7	320.7	306.3
80°	1759.8	733.0	258.2	297.7	294.8	287.0	308.2	296.6	260.0	275.5	272.5
82.5°	509.5	314.1	187.8	209.0	203.3	205.2	220.6	226.3	339.1	336.2	343.9
85°	159.9	123.3	112.6	116.5	110.8	113.7	130.1	258.2	238.9	139.7	151.2
87.5°	41.4	42.3	28.0	29.8	30.9	36.6	41.4	157.0	75.1	49.1	52.0
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)