

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: P962511

Luminaire Tested: **NAV-SB2C-750-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-750-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16142.7 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 100.9
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

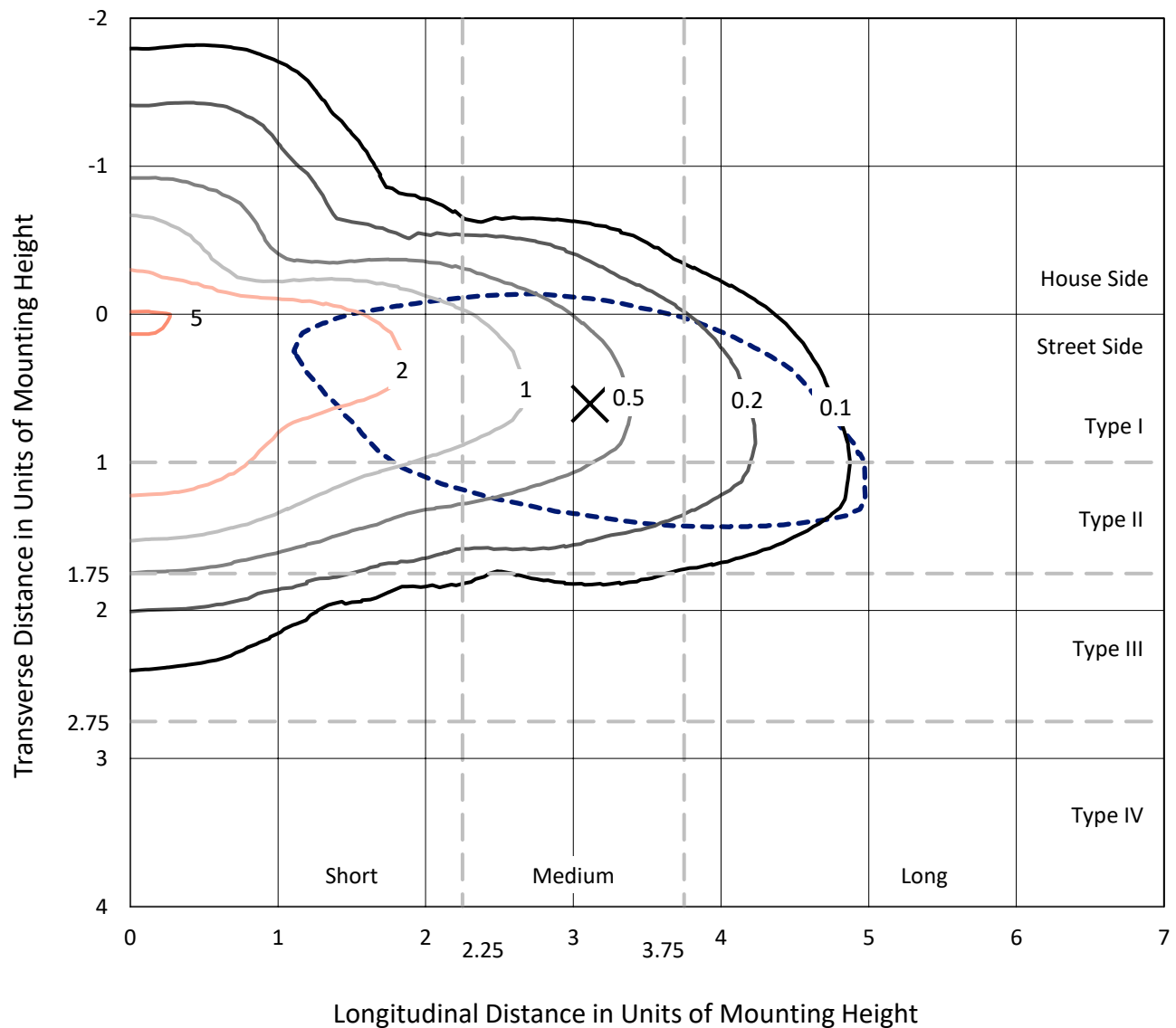


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Iso-Footcandle Lines of Horizontal Illumination

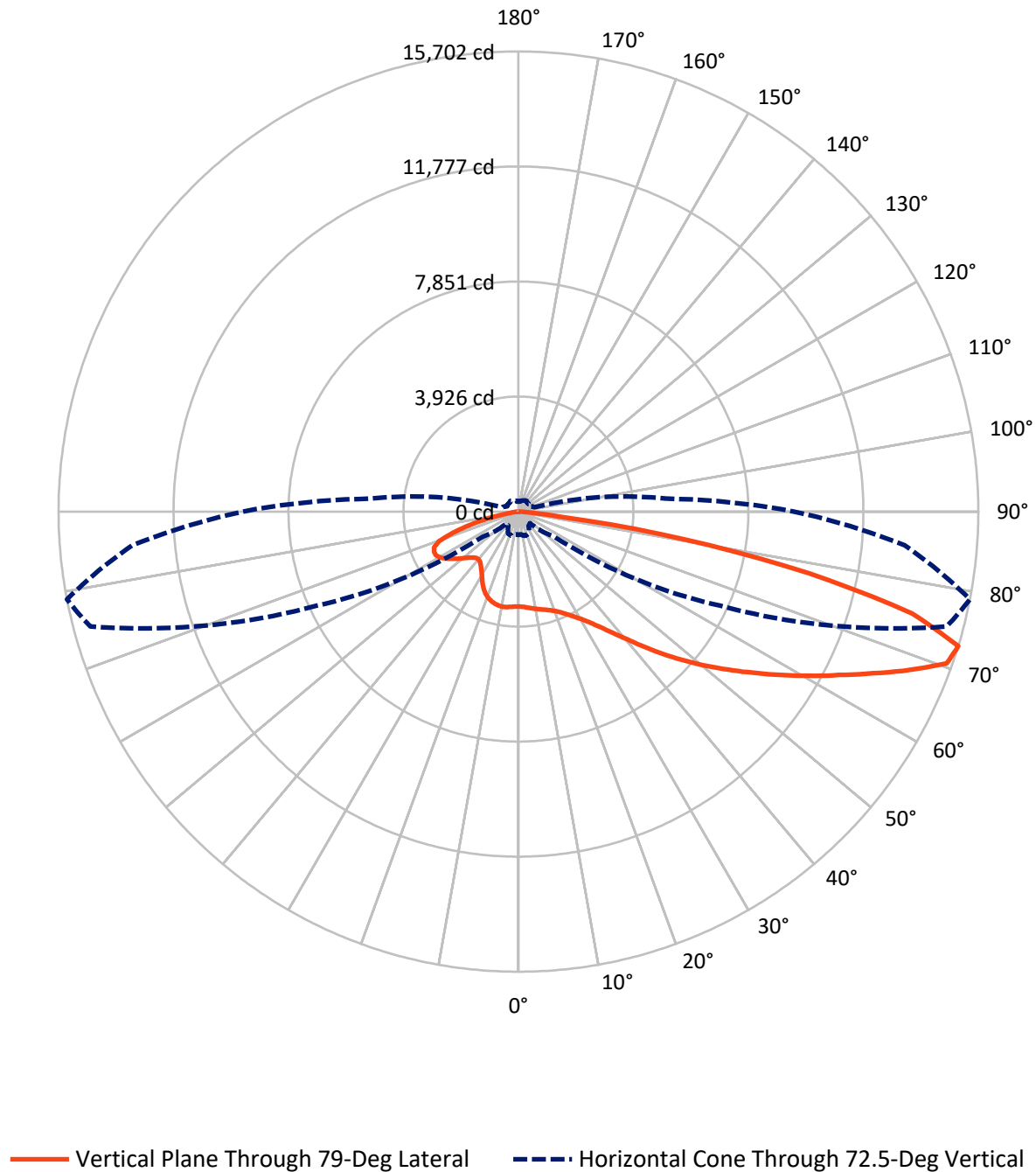
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3552.3	0.0	3552.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12590.4	0.0	12590.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	16142.7	0.0	16142.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	1.8
10°-20°	769.0	4.8
20°-30°	1240.9	7.7
30°-40°	1862.4	11.5
40°-50°	2642.0	16.4
50°-60°	3336.5	20.7
60°-70°	3388.6	21.0
70°-80°	2309.5	14.3
80°-90°	299.6	1.9
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°	16142.7	100.0
0°-180°	16142.7	100.0

Coefficient of Utilization



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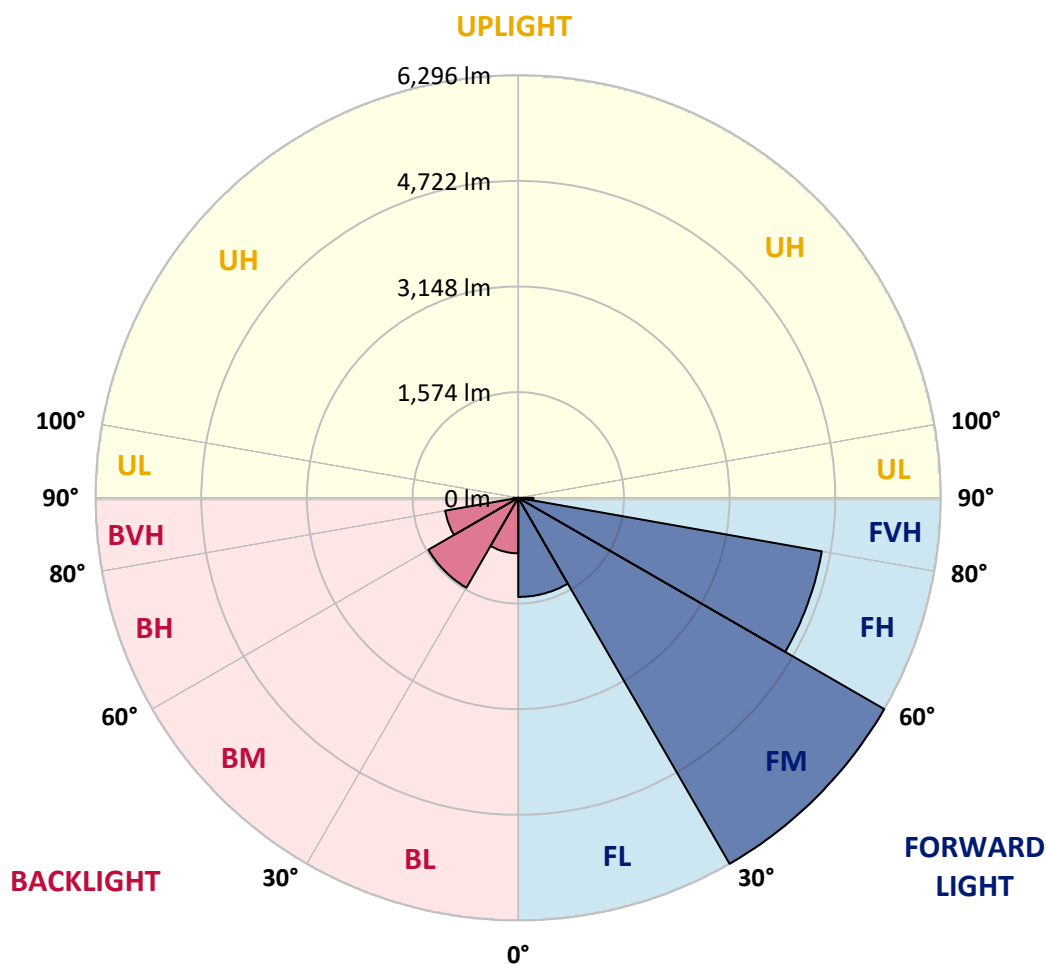
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1476.7	9.1			
FM	(30°-60°)	6296.0	39.0			
FH	(60°-80°)	4592.1	28.4			G2/5000
FVH	(80°-90°)	225.7	1.4			G3/500
BL	(0°-30°)	827.4	5.1	B2/1000		
BM	(30°-60°)	1544.9	9.6	B2/2500		
BH	(60°-80°)	1106.1	6.9	B3/2500		G3/2500
BVH	(80°-90°)	73.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5
2.5°	3242.2	3226.8	3236.2	3232.8	3237.1	3242.2	3243.9	3246.5	3255.0	3254.2	3253.4
5°	3235.4	3220.0	3232.8	3228.5	3239.6	3251.6	3261.9	3271.3	3284.9	3290.9	3282.4
7.5°	3220.9	3210.6	3223.4	3236.2	3256.7	3274.7	3289.1	3310.5	3330.1	3333.6	3339.6
10°	3136.3	3128.6	3158.5	3191.8	3248.2	3296.8	3328.5	3353.2	3374.6	3378.0	3386.5
12.5°	3048.4	3039.0	3072.2	3117.5	3208.9	3296.8	3363.4	3395.9	3414.7	3425.8	3438.6
15°	3033.9	3026.2	3045.0	3084.2	3160.3	3273.8	3387.3	3447.2	3463.4	3476.2	3481.3
17.5°	3103.9	3089.4	3097.0	3110.7	3155.2	3252.4	3406.2	3505.2	3530.0	3543.6	3543.6
20°	3266.2	3245.7	3233.7	3206.3	3198.6	3255.9	3404.4	3575.2	3607.7	3624.7	3629.0
22.5°	3482.1	3468.5	3442.9	3373.7	3298.6	3297.7	3436.9	3664.9	3725.5	3741.8	3731.5
25°	3743.4	3722.9	3690.5	3596.5	3452.3	3380.6	3491.6	3779.3	3881.0	3885.2	3855.3
27.5°	4044.0	4013.3	3968.9	3845.1	3650.3	3510.3	3575.2	3910.8	4059.4	4057.7	3996.2
30°	4360.8	4330.0	4283.1	4132.8	3887.7	3685.4	3691.3	4052.5	4271.2	4261.7	4156.7
32.5°	4592.2	4569.1	4559.7	4443.6	4161.0	3892.0	3824.6	4209.7	4532.4	4523.9	4377.1
35°	4769.8	4739.9	4751.0	4692.1	4459.0	4123.4	3987.7	4396.6	4850.1	4849.2	4666.5
37.5°	4945.7	4919.3	4928.6	4889.4	4734.8	4417.1	4186.6	4625.5	5243.7	5262.5	5016.6
40°	5106.2	5078.1	5115.7	5078.9	4949.1	4729.7	4412.9	4884.2	5699.7	5735.6	5440.1
42.5°	5202.7	5180.6	5242.9	5243.7	5135.2	4993.5	4661.4	5169.4	6227.4	6307.6	5961.0
45°	5236.0	5228.3	5322.3	5341.9	5300.1	5146.4	4885.0	5480.3	6796.1	6939.6	6554.5
47.5°	5200.1	5185.7	5315.4	5388.0	5421.3	5218.1	5070.4	5816.7	7376.7	7586.7	7201.6
50°	5019.1	4990.9	5183.9	5336.8	5455.5	5265.0	5257.3	6205.1	8036.8	8266.5	7852.3
52.5°	4693.8	4672.5	4891.9	5157.5	5380.3	5288.1	5467.5	6629.6	8663.5	8960.7	8519.2
55°	4277.9	4249.8	4491.4	4838.1	5193.4	5280.4	5677.5	7104.4	9403.0	9704.4	9208.3
57.5°	3618.8	3562.4	3868.1	4277.9	4888.5	5271.1	5896.1	7576.5	10154.4	10515.6	9943.5
60°	2657.3	2573.6	2948.5	3434.4	4292.5	5179.6	6166.8	8105.9	11056.2	11381.5	10746.2
62.5°	1547.2	1498.6	1743.6	2197.1	3235.4	4641.7	6318.7	8721.6	11942.5	12284.0	11535.1
65°	1201.4	1187.8	1209.1	1244.1	1800.8	3475.4	5850.0	9321.9	13069.6	13308.7	12357.4
67.5°	1098.9	1088.8	1098.1	1032.4	913.7	1935.7	4628.1	9473.9	14277.0	14422.2	13077.3
70°	976.8	964.9	995.6	939.3	718.9	880.4	2990.3	8922.2	15237.6	15510.0	13624.6
72.5°	795.8	782.2	853.9	828.3	605.4	565.3	1502.0	7611.5	15136.9	15702.1	13232.6
75°	611.4	603.7	689.1	710.4	493.5	444.8	720.7	5657.9	13320.6	13890.2	11404.5
77.5°	474.8	468.7	512.3	590.0	397.9	345.0	443.2	3588.9	10038.3	10138.2	7859.2
80°	356.1	339.0	379.1	456.8	310.0	251.9	300.5	2092.8	6345.3	5751.8	3420.6
82.5°	222.8	214.3	247.6	304.8	218.6	173.3	195.6	1156.2	2542.9	1497.7	660.1
85°	127.2	123.8	134.9	174.1	118.7	99.9	111.8	510.7	464.5	319.4	199.0
87.5°	51.2	49.5	61.5	77.7	43.6	36.7	39.3	123.0	102.5	94.8	65.7
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°	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5	3240.5
2.5°	3249.9	3249.9	3238.0	3219.1	3197.8	3184.2	3161.9	3156.0	3132.9	3126.0	3137.2
5°	3289.1	3282.4	3245.7	3192.7	3120.1	3053.5	2980.1	2934.0	2869.1	2846.0	2863.0
7.5°	3338.7	3319.9	3256.7	3140.6	2988.6	2839.1	2683.8	2565.9	2453.2	2413.1	2418.2
10°	3383.9	3357.5	3249.9	3046.7	2783.7	2525.0	2277.3	2104.0	1972.5	1918.7	1930.6
12.5°	3429.2	3380.6	3204.7	2890.4	2492.5	2141.5	1877.7	1742.8	1661.6	1596.7	1618.1
15°	3471.9	3403.6	3134.7	2681.2	2173.1	1817.1	1622.4	1514.7	1449.9	1407.2	1414.9
17.5°	3521.4	3423.2	3029.6	2415.6	1869.2	1592.5	1433.7	1368.8	1356.0	1350.8	1354.2
20°	3590.6	3441.1	2891.2	2118.5	1645.4	1413.2	1331.2	1325.2	1324.4	1321.8	1330.3
22.5°	3664.9	3462.6	2708.6	1848.7	1455.0	1301.3	1286.8	1274.9	1267.2	1266.3	1275.7
25°	3752.8	3469.3	2479.7	1627.5	1292.8	1248.3	1231.3	1213.4	1208.3	1208.3	1213.4
27.5°	3838.2	3446.3	2213.3	1435.4	1201.4	1199.7	1177.5	1171.6	1170.7	1173.2	1180.1
30°	3923.6	3402.7	1948.5	1257.8	1148.5	1148.5	1140.8	1145.0	1148.5	1157.0	1163.0
32.5°	4038.9	3356.7	1727.4	1126.3	1102.4	1093.8	1101.5	1110.1	1113.5	1124.5	1134.0
35°	4207.9	3324.2	1551.5	1054.5	1054.5	1043.4	1047.8	1046.0	1038.3	1033.2	1045.2
37.5°	4431.7	3322.4	1406.3	1021.2	1014.4	1012.7	1013.5	1002.4	972.6	936.7	937.6
40°	4700.6	3368.6	1294.5	998.1	993.0	1003.3	998.1	968.3	886.3	824.0	822.3
42.5°	5061.9	3500.1	1222.7	970.1	985.4	998.1	977.7	874.4	818.9	777.1	775.3
45°	5487.0	3713.6	1186.0	940.1	970.9	986.3	887.1	841.9	797.6	747.1	743.7
47.5°	5968.7	3982.5	1177.5	911.9	938.4	947.8	848.8	828.3	777.9	723.2	718.9
50°	6493.0	4301.0	1200.6	878.6	891.4	859.1	836.0	817.1	765.1	711.2	705.3
52.5°	7035.2	4652.0	1246.7	833.4	844.5	808.6	830.9	814.6	757.4	684.8	679.7
55°	7568.0	5005.5	1291.1	780.4	796.6	763.4	816.3	804.3	722.4	640.4	636.1
57.5°	8109.4	5357.3	1334.7	733.5	750.6	719.9	793.2	777.1	683.1	599.4	597.7
60°	8672.1	5698.8	1355.2	688.2	700.2	679.7	758.3	730.1	638.7	557.6	555.0
62.5°	9199.0	5983.2	1321.8	643.0	650.7	642.2	712.2	674.6	594.3	510.7	509.7
65°	9727.5	6152.3	1219.3	598.6	600.2	596.0	647.3	614.8	542.2	469.7	464.5
67.5°	10206.5	6247.1	1056.3	550.7	546.5	544.8	586.6	549.9	491.8	428.7	423.5
70°	10308.1	6006.2	806.9	494.4	494.4	490.2	520.0	482.5	436.3	385.1	383.3
72.5°	9414.9	5052.4	573.0	430.4	437.2	428.7	453.5	421.8	380.0	345.8	335.6
75°	7591.9	3705.0	416.7	364.6	376.6	362.0	385.1	363.0	327.1	326.2	293.8
77.5°	5216.4	2291.0	302.3	300.5	309.1	290.3	316.8	304.8	272.3	257.9	241.7
80°	2226.1	913.7	220.3	232.3	232.3	215.1	245.9	249.4	221.2	214.3	214.3
82.5°	443.2	259.6	154.6	159.7	150.3	145.1	174.1	193.0	266.4	296.3	297.1
85°	133.2	95.6	93.1	87.1	76.9	77.7	102.5	193.8	239.1	136.6	117.9
87.5°	36.7	23.9	24.8	19.7	16.2	21.3	35.1	146.9	80.3	34.1	29.0
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)