

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: P970488

Luminaire Tested: **NAV-SB6B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22225.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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



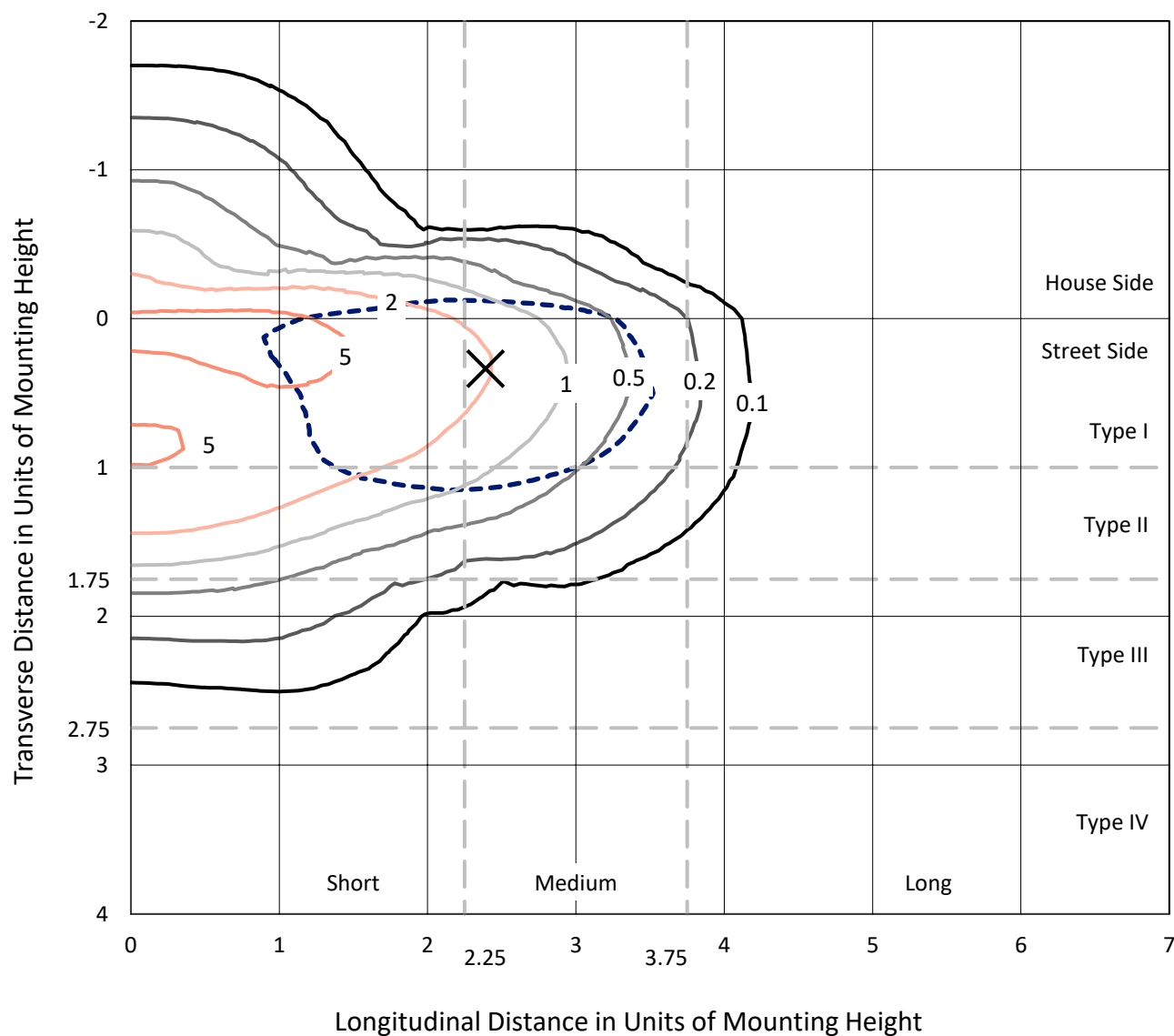
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

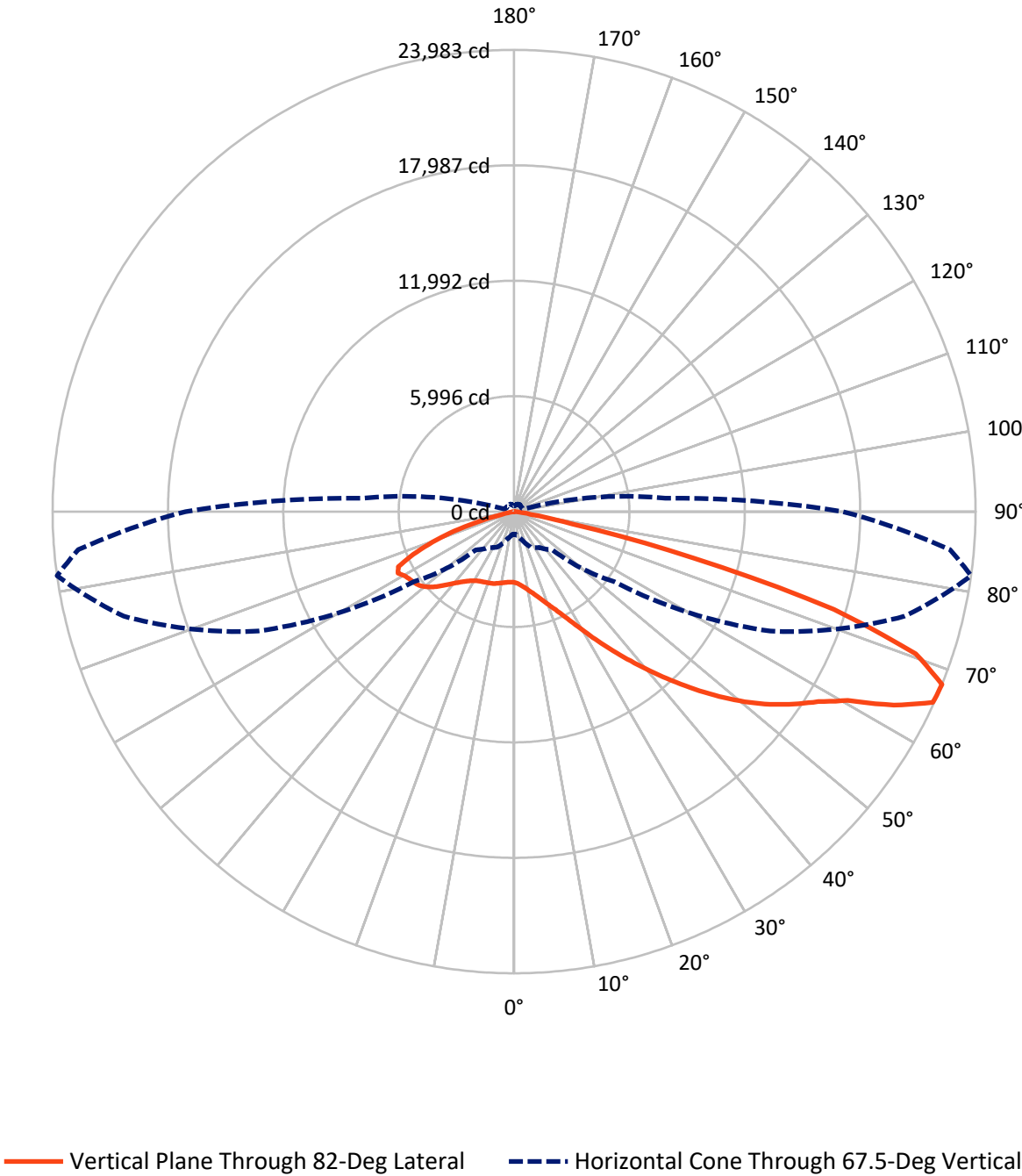
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	4025.9	0.0	4025.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18199.2	0.0	18199.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	22225.1	0.0	22225.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.0	1.5
10°-20°	852.4	3.8
20°-30°	1365.3	6.1
30°-40°	2414.3	10.9
40°-50°	4230.1	19.0
50°-60°	5641.7	25.4
60°-70°	5252.2	23.6
70°-80°	2015.8	9.1
80°-90°	125.2	0.6
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°	22225.1	100.0
0°-180°	22225.1	100.0

Coefficient of Utilization



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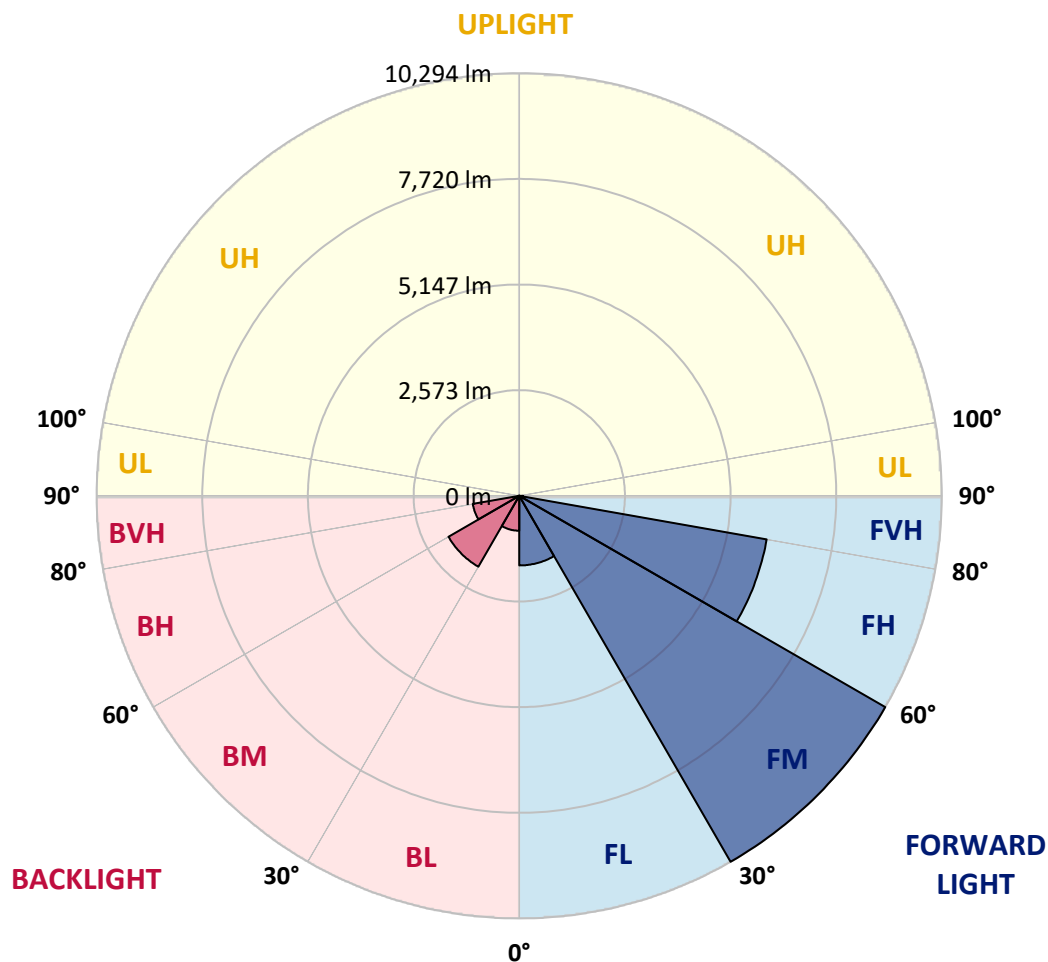
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.5	7.6			
FM	(30°-60°)	10293.7	46.3			
FH	(60°-80°)	6118.9	27.5			G3/7500
FVH	(80°-90°)	91.0	0.4			G1/100
BL	(0°-30°)	850.3	3.8	B2/1000		
BM	(30°-60°)	1992.4	9.0	B2/2500		
BH	(60°-80°)	1149.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	34.2	0.2			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°	82°	85°
0°	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9
2.5°	3891.5	3914.0	3901.2	3894.8	3883.5	3867.5	3854.7	3814.7	3773.1	3746.0	3736.3
5°	3969.9	3992.4	3990.7	3997.2	4005.2	4010.0	4006.7	3961.9	3902.8	3856.4	3829.2
7.5°	3902.8	3928.4	3949.1	3981.2	4037.2	4096.4	4125.2	4115.6	4054.8	3990.7	3957.2
10°	3712.3	3739.5	3789.1	3864.4	3982.7	4110.8	4218.0	4267.6	4229.2	4158.8	4112.4
12.5°	3363.5	3390.7	3488.3	3651.6	3850.0	4072.4	4277.2	4410.0	4419.6	4349.2	4294.8
15°	2971.5	2998.6	3102.7	3307.5	3609.9	3966.7	4309.2	4560.4	4645.2	4584.4	4518.8
17.5°	2728.2	2752.2	2830.6	2995.5	3310.7	3755.6	4298.0	4720.4	4914.1	4866.1	4787.7
20°	2654.6	2675.5	2712.3	2827.5	3089.9	3536.4	4224.4	4870.9	5203.7	5176.5	5088.5
22.5°	2733.1	2752.2	2763.5	2814.6	2979.5	3392.3	4131.6	5024.4	5539.7	5542.9	5435.7
25°	2913.9	2933.0	2920.2	2952.3	3024.3	3347.5	4096.4	5205.3	5962.1	5997.4	5875.7
27.5°	3211.5	3213.1	3182.7	3181.1	3192.3	3414.7	4133.2	5398.9	6495.0	6560.6	6410.2
30°	3808.4	3784.4	3667.6	3541.2	3483.6	3616.3	4235.6	5627.8	7123.9	7240.7	7051.9
32.5°	4728.4	4693.3	4478.8	4176.4	3872.3	3941.1	4419.6	5888.5	7808.8	8019.9	7789.5
35°	5727.0	5717.3	5493.3	5043.7	4512.5	4403.6	4718.8	6231.0	8556.0	8892.0	8618.4
37.5°	6655.0	6650.2	6522.2	5992.6	5346.1	5048.4	5198.9	6679.0	9356.1	9842.6	9519.3
40°	7503.1	7517.5	7389.5	6915.9	6264.6	5875.7	5851.7	7232.7	10245.8	10877.8	10493.7
42.5°	8236.0	8252.0	8122.3	7772.0	7171.8	6791.0	6653.4	7911.2	11114.6	11989.9	11535.5
45°	8733.6	8832.8	8813.7	8533.6	8103.1	7707.9	7616.7	8762.4	12105.1	13169.2	12636.4
47.5°	8874.4	8965.7	9109.7	9148.0	8885.6	8496.8	8605.6	9788.1	13106.8	14350.1	13743.7
50°	8527.2	8612.0	8911.2	9309.7	9492.1	9372.1	9567.2	10887.4	14132.5	15527.8	14830.2
52.5°	7842.4	7928.8	8306.4	8936.9	9680.9	10058.5	10532.2	11970.7	15126.2	16643.1	15859.1
55°	6851.8	6943.0	7427.9	8141.6	9320.8	10341.7	11337.0	13052.5	16036.7	17646.4	16787.1
57.5°	5504.6	5571.7	6075.8	7074.2	8415.1	10060.2	11930.7	14233.4	16894.4	18632.1	17707.3
60°	3587.5	3646.7	4232.4	5346.1	6914.2	9119.2	12049.1	15550.3	18033.6	19913.9	18947.3
62.5°	2385.8	2425.9	2773.0	3590.8	4869.3	7312.7	11356.3	16601.5	19704.2	22144.5	21074.0
65°	1636.9	1677.0	2024.2	2593.9	3145.9	4837.3	9364.1	16462.3	21218.0	23915.8	22650.1
67.5°	1168.1	1201.7	1496.1	2033.8	2277.0	2809.8	6347.8	14682.9	21000.4	23983.1	22734.9
70°	836.9	856.1	1099.3	1584.1	1809.7	1688.2	3529.9	11229.8	18387.3	22146.0	21003.6
72.5°	585.7	592.0	763.3	1206.5	1457.8	1232.2	1680.2	7487.1	13906.9	17382.5	16283.1
75°	396.9	404.9	513.6	884.9	1169.7	940.8	889.7	4014.8	8163.9	9621.7	8624.8
77.5°	243.2	246.4	331.3	604.9	875.2	716.9	572.9	1701.0	3158.7	3101.1	2643.5
80°	137.7	137.7	211.3	376.1	596.9	462.5	401.6	723.2	1000.1	878.5	774.5
82.5°	76.8	78.4	153.6	233.6	395.2	273.7	220.8	334.5	432.0	382.4	332.8
85°	32.0	35.2	94.4	110.4	188.8	136.0	89.6	140.8	160.0	142.4	104.0
87.5°	3.2	4.8	28.8	20.8	22.4	27.2	12.8	27.2	22.4	22.4	16.0
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°	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9	3681.9
2.5°	3706.0	3681.9	3621.1	3550.7	3457.9	3413.1	3352.3	3310.7	3275.5	3278.7	3246.7
5°	3777.9	3717.2	3581.1	3411.5	3200.3	3049.9	2889.9	2779.5	2689.8	2670.6	2627.5
7.5°	3877.2	3781.1	3542.7	3237.1	2880.2	2609.9	2368.3	2213.0	2102.6	2067.4	2032.2
10°	4005.2	3866.0	3493.1	3017.9	2504.3	2160.2	1901.0	1779.4	1704.2	1678.5	1659.4
12.5°	4154.0	3963.6	3427.5	2750.7	2117.0	1785.8	1620.9	1560.2	1536.2	1528.2	1523.4
15°	4341.2	4085.1	3328.3	2433.9	1788.9	1557.0	1486.6	1478.6	1481.7	1478.6	1476.9
17.5°	4563.6	4218.0	3166.7	2107.4	1568.1	1440.1	1414.5	1421.0	1429.0	1427.3	1424.1
20°	4806.8	4349.2	2960.3	1817.7	1417.8	1356.9	1342.5	1348.9	1355.4	1352.1	1350.5
22.5°	5083.7	4490.0	2731.4	1592.1	1316.9	1280.1	1264.1	1265.7	1265.7	1259.3	1256.1
25°	5414.9	4645.2	2491.5	1432.1	1240.1	1211.3	1192.1	1185.7	1176.1	1156.9	1153.7
27.5°	5810.1	4810.0	2261.0	1320.1	1179.3	1152.1	1129.8	1113.7	1089.7	1057.7	1054.5
30°	6255.0	5010.1	2065.8	1249.7	1131.3	1104.1	1078.5	1054.5	1019.3	979.3	976.1
32.5°	6778.2	5224.5	1923.4	1203.4	1088.1	1059.3	1028.9	1000.1	961.7	921.7	923.3
35°	7402.2	5483.7	1840.2	1171.3	1054.5	1016.1	982.5	950.5	921.7	886.5	883.2
37.5°	8079.2	5759.0	1814.6	1155.3	1032.1	972.9	934.5	912.0	908.9	888.1	886.5
40°	8820.0	6085.3	1833.7	1145.7	1008.1	931.3	889.7	884.9	892.9	856.1	857.7
42.5°	9604.0	6472.6	1865.8	1134.5	974.5	889.7	849.7	849.7	843.3	792.1	792.1
45°	10452.1	6919.1	1897.8	1107.3	934.5	848.1	817.6	806.5	779.3	729.7	728.1
47.5°	11306.7	7373.4	1921.8	1057.7	886.5	812.8	785.7	760.0	720.1	675.3	673.6
50°	12118.0	7781.5	1896.1	984.1	832.1	779.3	750.5	715.2	672.1	641.6	636.8
52.5°	12842.8	8135.1	1787.4	897.7	774.5	744.0	718.4	681.6	646.5	614.5	611.2
55°	13473.2	8421.6	1595.3	816.1	723.2	713.7	688.1	641.6	593.7	566.4	563.2
57.5°	14078.1	8639.2	1355.4	748.9	676.9	680.1	641.6	600.0	555.2	526.4	523.3
60°	14883.0	8930.4	1112.1	686.4	627.3	636.8	595.2	564.9	508.8	472.0	467.2
62.5°	16169.5	9383.3	883.2	609.7	569.7	572.9	555.2	518.4	451.2	408.1	404.9
65°	17190.4	9216.9	696.1	526.4	504.1	508.8	508.8	468.8	396.9	347.3	342.5
67.5°	17075.2	7891.9	555.2	444.8	441.7	444.8	456.0	422.4	352.0	312.0	305.7
70°	15729.4	6277.4	444.8	369.6	384.1	376.1	408.1	385.6	316.8	276.9	272.0
72.5°	12834.8	4522.0	339.3	305.7	294.4	307.2	368.1	347.3	264.0	219.2	214.4
75°	7499.9	2413.1	252.9	241.6	212.8	256.0	326.5	296.0	201.6	161.6	156.8
77.5°	2441.9	841.6	185.6	177.6	158.5	206.4	278.4	249.6	164.8	128.0	123.2
80°	654.5	254.4	126.4	116.8	102.4	153.6	220.8	198.4	118.4	83.2	81.6
82.5°	262.4	107.2	73.6	65.6	56.0	105.6	174.5	160.0	88.0	52.8	52.8
85°	84.8	35.2	27.2	20.8	25.6	65.6	104.0	108.9	62.4	27.2	20.8
87.5°	11.2	4.8	4.8	6.4	4.8	11.2	32.0	30.4	17.6	3.2	0.0
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)