

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: P969829

Luminaire Tested: **NAV-SB6A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969829
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-SB6A-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27249.6 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
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



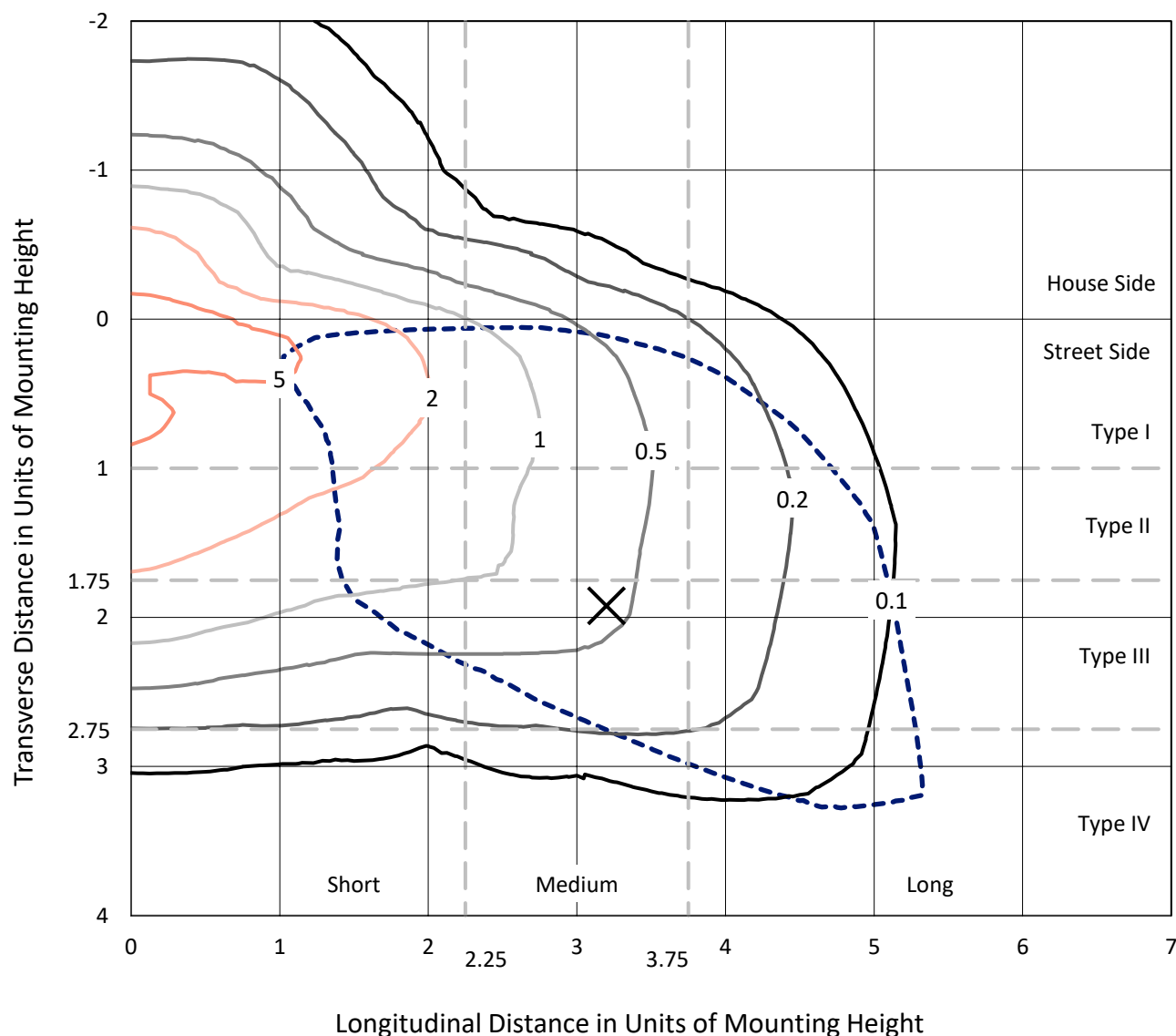
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

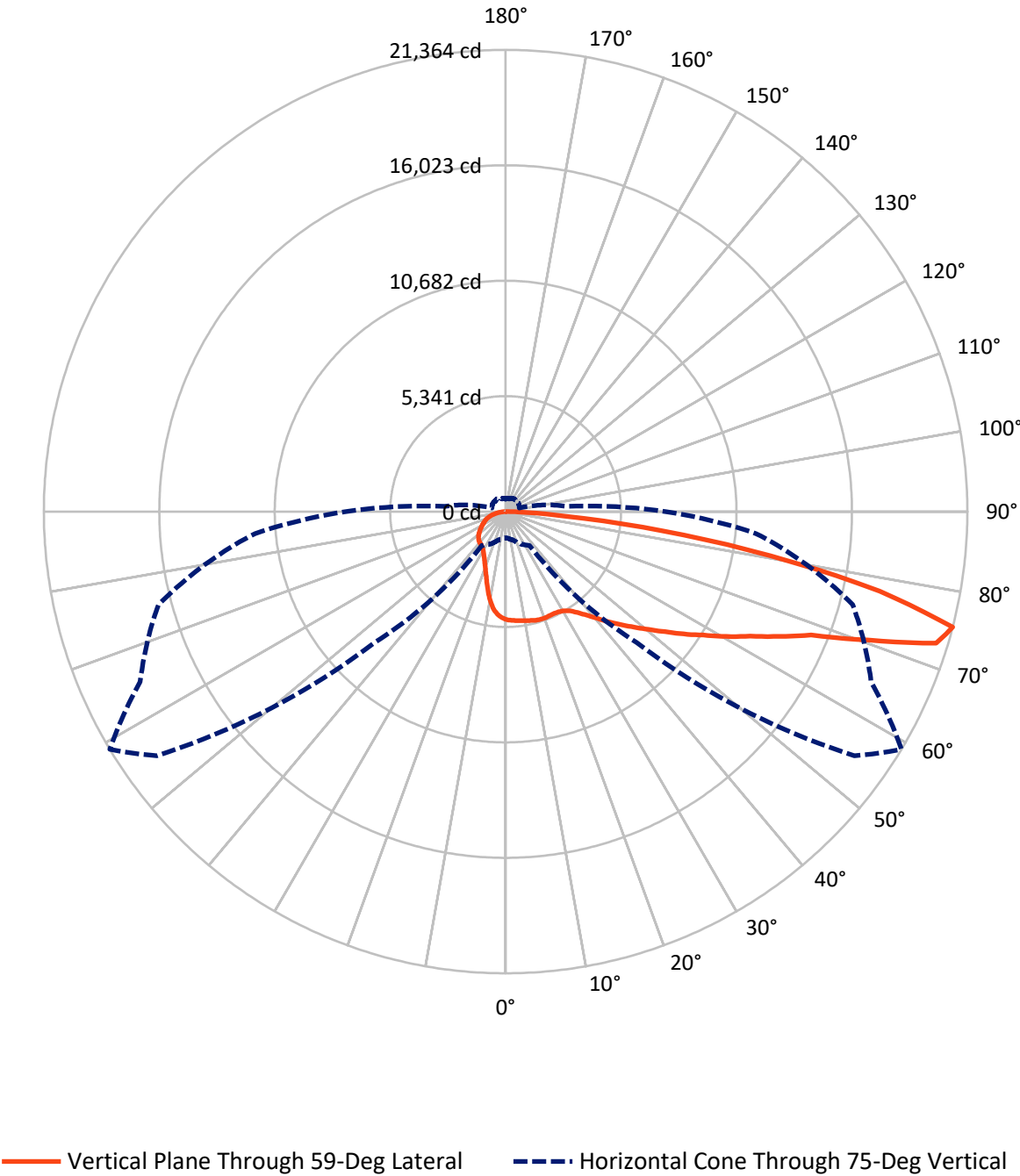
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	5110.8	0.0	5110.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22138.8	0.0	22138.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	27249.6	0.0	27249.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.5	1.6
10°-20°	1146.3	4.2
20°-30°	1741.2	6.4
30°-40°	2588.2	9.5
40°-50°	3849.1	14.1
50°-60°	5224.8	19.2
60°-70°	6378.6	23.4
70°-80°	5005.8	18.4
80°-90°	867.1	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°	27249.6	100.0
0°-180°	27249.6	100.0

Coefficient of Utilization



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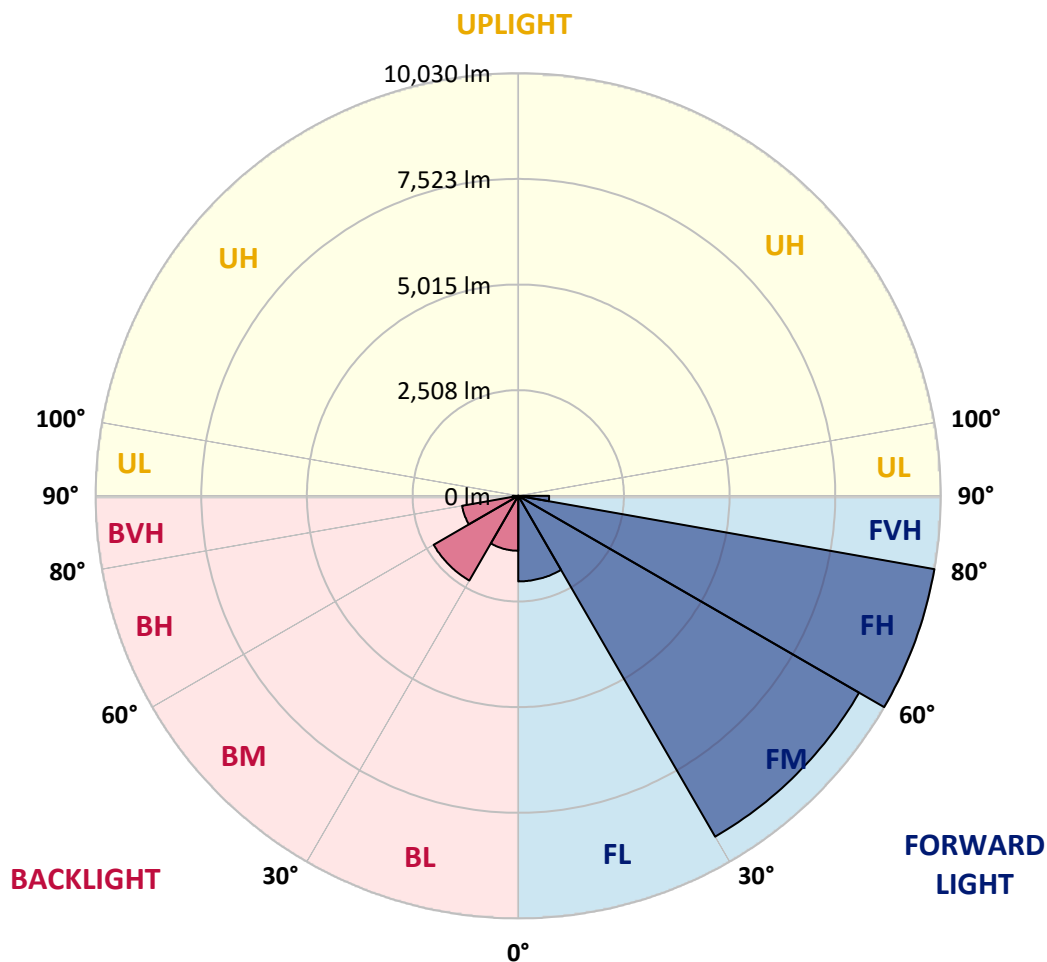
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2031.8	7.5			
FM	(30°-60°)	9342.3	34.3			
FH	(60°-80°)	10030.3	36.8			G4/12000
FVH	(80°-90°)	734.4	2.7			G4/750
BL	(0°-30°)	1304.2	4.8	B3/2500		
BM	(30°-60°)	2319.8	8.5	B2/2500		
BH	(60°-80°)	1354.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	132.7	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6
2.5°	5044.1	5026.5	5044.1	5036.7	5033.9	5028.0	5029.5	5039.7	5033.9	5041.2	5016.2
5°	5010.4	5000.2	5017.7	5013.4	5032.4	5035.3	5054.4	5066.1	5073.4	5074.9	5055.8
7.5°	4954.7	4944.4	4969.4	4989.9	5030.9	5042.7	5082.3	5101.3	5111.6	5129.1	5101.3
10°	4751.0	4746.6	4808.1	4885.8	4982.5	5042.7	5102.8	5135.0	5151.1	5198.1	5165.8
12.5°	4390.4	4396.2	4476.8	4626.3	4819.9	5013.4	5126.2	5173.1	5198.1	5256.7	5242.1
15°	4045.9	4044.3	4132.3	4292.1	4563.3	4884.3	5137.9	5218.6	5261.1	5347.5	5335.8
17.5°	3846.5	3840.7	3902.2	4023.8	4276.0	4686.4	5108.6	5243.5	5334.4	5442.9	5432.6
20°	3809.8	3798.1	3830.3	3890.5	4069.4	4469.5	5032.4	5243.5	5393.0	5533.8	5527.8
22.5°	3943.3	3924.2	3911.0	3903.6	3982.8	4290.6	4945.9	5225.9	5479.4	5664.2	5653.9
25°	4211.5	4182.2	4114.8	4048.7	4025.3	4210.0	4869.7	5221.5	5608.5	5840.1	5802.0
27.5°	4645.4	4608.7	4472.4	4314.1	4172.0	4251.1	4836.0	5247.9	5750.7	6026.3	5950.0
30°	5183.4	5143.8	4972.3	4728.9	4473.9	4403.5	4878.5	5325.6	5932.5	6274.0	6124.5
32.5°	5665.7	5621.7	5475.1	5227.4	4882.9	4667.3	5013.4	5473.6	6218.3	6618.5	6386.9
35°	6093.7	6042.4	5910.5	5681.8	5384.2	5038.3	5256.7	5736.0	6624.4	7178.5	6743.1
37.5°	6513.0	6452.9	6309.2	6067.3	5859.1	5532.2	5592.4	6073.1	7163.8	7858.6	7215.1
40°	6982.0	6895.6	6721.1	6482.2	6279.9	6111.3	6033.6	6486.5	7712.0	8618.0	7804.4
42.5°	7436.5	7354.4	7146.2	6942.4	6688.8	6640.5	6545.1	6970.3	8311.6	9452.0	8402.4
45°	7926.0	7827.8	7575.7	7317.7	7157.9	6992.2	7040.6	7454.0	8899.4	10302.3	9029.8
47.5°	8384.9	8274.9	7977.4	7690.1	7602.1	7288.4	7495.1	7986.2	9510.7	11164.2	9651.4
50°	8632.7	8524.1	8276.4	8016.9	7948.1	7653.4	7987.6	8571.0	10151.3	12023.2	10248.1
52.5°	8839.3	8722.0	8398.0	8254.4	8233.9	8050.7	8594.5	9239.5	10791.8	12782.6	10824.1
55°	9059.2	8928.7	8515.3	8386.3	8480.1	8496.3	9314.3	9997.3	11469.1	13522.8	11368.0
57.5°	9312.7	9147.1	8628.2	8497.8	8720.6	9018.2	10141.0	10783.1	12134.6	14208.9	11851.7
60°	9551.8	9384.6	8845.1	8675.1	8980.0	9623.5	11089.5	11734.4	12888.0	14820.2	12309.0
62.5°	9598.6	9460.9	9018.2	9016.7	9331.8	10330.2	12212.3	12694.6	13546.3	15424.1	12719.5
65°	8786.5	8700.0	8437.7	9003.5	9836.1	11347.5	13462.8	13923.0	14383.3	15951.8	13080.1
67.5°	6687.4	6699.1	6680.0	7772.2	9428.6	12808.9	15273.1	15237.9	15416.7	16544.0	13494.9
70°	3057.9	3126.8	3575.3	5365.2	7553.7	12977.5	18266.4	17810.5	16714.1	17310.7	13854.1
72.5°	1652.1	1704.8	1888.0	2599.0	4541.4	11538.0	20503.4	20827.3	18439.4	17826.7	13459.8
75°	1212.3	1241.6	1369.1	1652.1	1907.1	8575.5	19701.5	21363.9	18654.9	16623.1	11623.0
77.5°	907.4	920.6	1024.7	1309.0	976.3	4520.8	15742.2	17693.2	15969.4	13657.7	8585.7
80°	658.2	672.8	750.5	982.2	684.6	1653.5	10809.4	12419.0	10937.0	8705.9	4279.0
82.5°	454.4	460.3	494.0	668.4	477.9	642.1	6133.3	7282.5	6105.4	3054.9	1155.1
85°	274.1	281.5	296.1	389.9	271.2	304.9	2647.4	2738.3	1825.0	730.0	359.2
87.5°	112.9	120.2	131.9	164.2	107.0	85.0	436.9	548.3	341.5	214.0	111.4
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°	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6	5001.6
2.5°	5009.0	4998.7	4970.8	4932.7	4897.6	4853.6	4834.5	4818.4	4803.7	4775.9	4762.7
5°	5039.7	5011.8	4937.1	4840.4	4730.4	4610.2	4493.0	4412.3	4343.4	4292.1	4249.6
7.5°	5086.7	5033.9	4897.6	4699.6	4447.5	4189.5	3956.4	3790.8	3666.2	3620.7	3541.6
10°	5135.0	5072.0	4834.5	4485.6	4050.3	3653.0	3343.7	3173.6	3074.0	3041.7	2991.9
12.5°	5192.1	5099.8	4736.3	4188.0	3606.1	3170.7	2901.0	2801.3	2750.0	2732.4	2736.9
15°	5275.8	5123.3	4588.2	3815.7	3182.4	2818.9	2644.5	2575.5	2549.2	2547.7	2553.6
17.5°	5338.7	5127.7	4358.1	3416.9	2857.0	2606.4	2462.7	2436.3	2453.8	2480.3	2490.5
20°	5409.1	5088.1	4056.1	3053.5	2628.3	2420.2	2360.1	2377.7	2420.2	2458.3	2471.5
22.5°	5458.9	5016.2	3691.1	2770.6	2430.5	2313.2	2310.2	2346.8	2370.3	2389.4	2399.6
25°	5502.9	4894.6	3304.1	2533.1	2267.7	2248.6	2280.9	2269.1	2253.1	2269.1	2279.5
27.5°	5535.2	4702.6	2958.1	2324.9	2153.4	2204.7	2185.6	2159.3	2157.8	2166.5	2181.2
30°	5525.0	4446.0	2673.8	2127.0	2072.8	2122.6	2077.2	2072.8	2068.3	2072.8	2088.8
32.5°	5525.0	4154.3	2455.4	1990.7	2021.5	2002.4	1998.0	1987.8	1970.2	1968.7	1987.8
35°	5555.7	3862.6	2267.7	1917.4	1979.0	1933.5	1936.4	1911.5	1874.8	1857.3	1874.8
37.5°	5618.7	3628.1	2081.6	1882.2	1904.1	1902.7	1891.0	1848.5	1784.0	1728.3	1747.3
40°	5771.2	3559.2	1954.1	1866.1	1869.0	1886.6	1855.8	1773.8	1627.1	1536.3	1548.0
42.5°	6010.1	3674.9	1926.2	1826.4	1845.5	1863.1	1803.1	1612.4	1508.4	1454.2	1454.2
45°	6313.6	3877.3	1986.2	1769.4	1789.9	1820.6	1641.8	1550.9	1504.0	1505.4	1512.8
47.5°	6697.7	4089.9	2097.7	1719.4	1709.2	1726.8	1534.8	1479.1	1414.6	1430.7	1471.8
50°	7141.8	4305.3	2203.2	1652.1	1619.8	1562.6	1465.9	1413.1	1331.1	1292.9	1303.2
52.5°	7622.6	4513.5	2245.8	1570.0	1523.0	1457.1	1419.0	1354.4	1254.8	1191.8	1190.3
55°	8078.5	4702.6	2198.8	1471.8	1426.3	1375.0	1369.1	1329.5	1222.5	1134.6	1134.6
57.5°	8509.4	4860.9	2081.6	1372.1	1328.1	1297.3	1336.9	1317.8	1183.0	1070.1	1064.3
60°	8874.4	4969.4	1911.5	1270.9	1240.1	1224.1	1284.1	1278.3	1127.3	1001.2	996.8
62.5°	9164.7	5011.8	1723.8	1174.1	1166.9	1137.5	1210.8	1210.8	1056.9	933.8	929.4
65°	9392.0	4970.8	1533.3	1078.9	1093.6	1049.6	1121.5	1112.6	982.2	873.7	867.8
67.5°	9592.8	4836.0	1322.2	985.1	1018.7	963.1	1027.6	1007.1	900.1	813.5	807.7
70°	9682.2	4522.3	1081.8	891.2	932.3	878.1	933.8	895.6	807.7	749.1	737.4
72.5°	8963.9	3758.6	851.7	793.0	828.2	784.2	832.6	788.6	708.1	681.6	659.7
75°	7415.9	2820.4	655.3	686.0	712.4	678.8	710.9	678.8	605.4	624.4	570.2
77.5°	5385.7	1904.1	501.3	573.2	584.9	567.3	595.1	558.5	492.5	488.1	466.2
80°	2678.2	1115.5	392.9	452.9	448.5	436.9	469.0	451.5	395.8	419.2	414.8
82.5°	775.4	477.9	285.9	318.1	309.3	312.2	335.7	344.5	516.0	511.6	523.4
85°	243.3	187.7	171.5	177.3	168.6	173.0	197.9	392.9	363.6	212.6	230.1
87.5°	63.0	64.5	42.5	45.4	46.9	55.7	63.0	238.9	114.4	74.7	79.1
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)