

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: P968279

Luminaire Tested: **NAV-SB5B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968279
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-SB5B-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 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: 30147.3 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

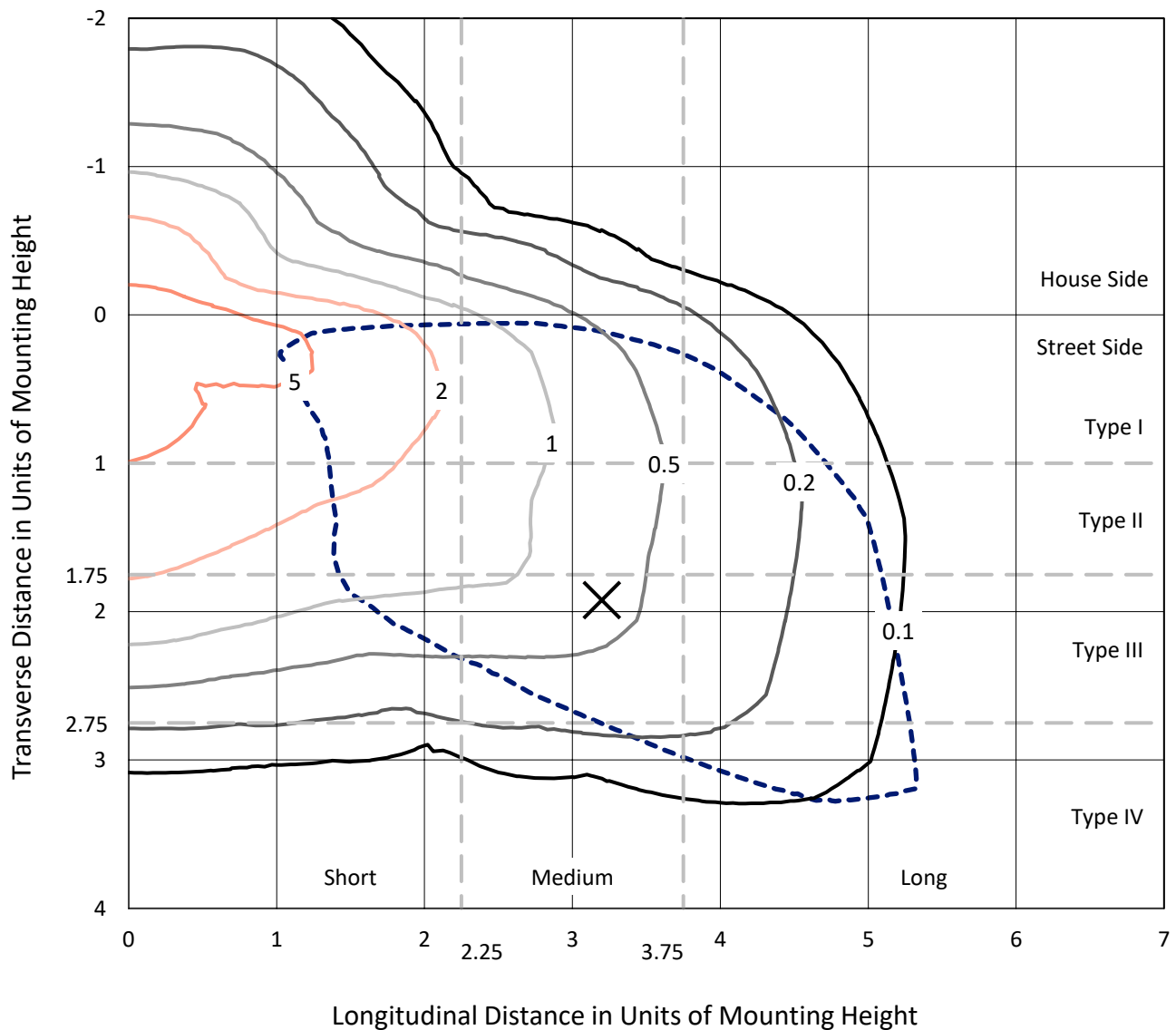
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

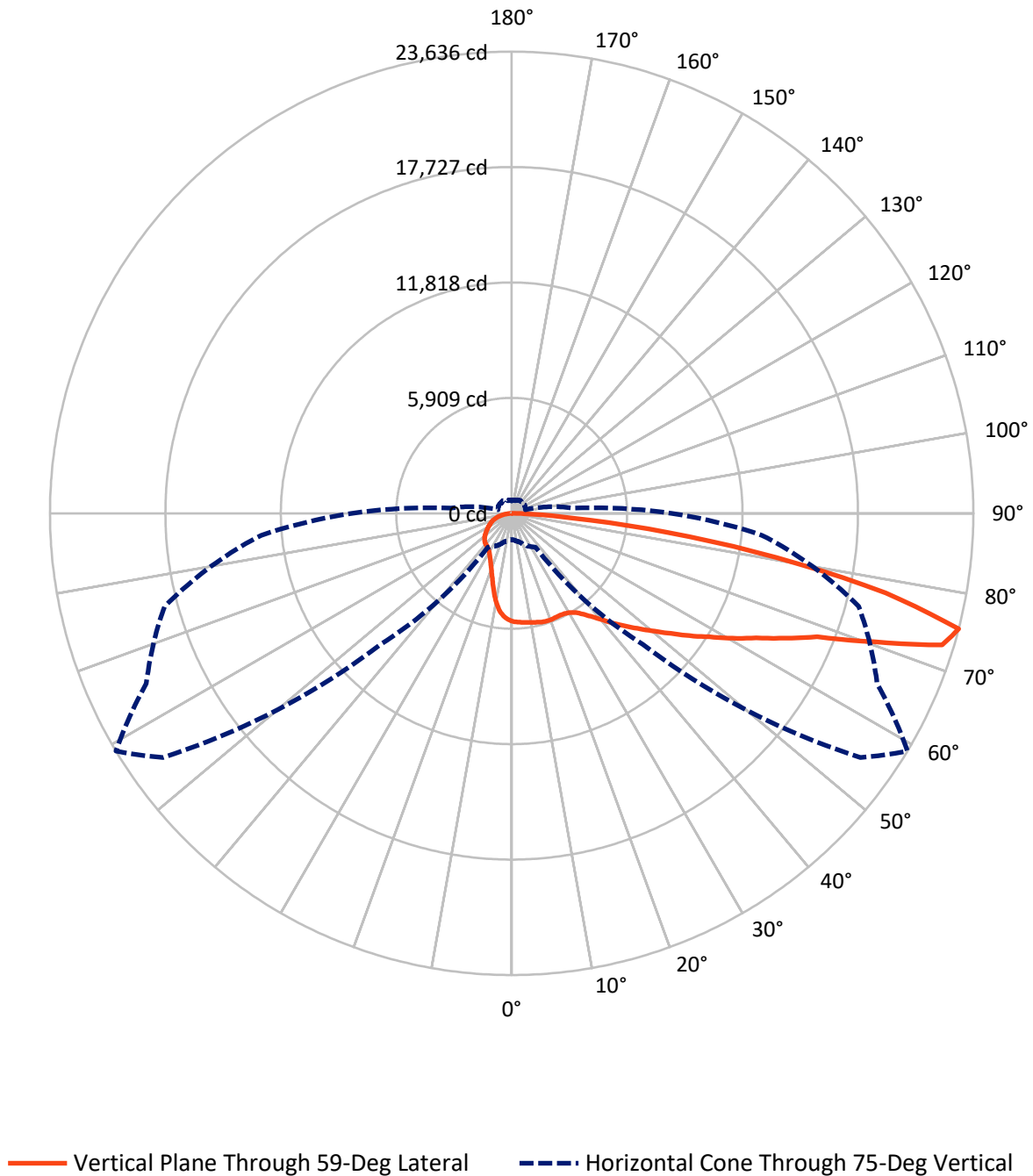
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	5654.3	0.0	5654.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24493.0	0.0	24493.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	30147.3	0.0	30147.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.2	1.6
10°-20°	1268.2	4.2
20°-30°	1926.3	6.4
30°-40°	2863.5	9.5
40°-50°	4258.5	14.1
50°-60°	5780.3	19.2
60°-70°	7056.8	23.4
70°-80°	5538.1	18.4
80°-90°	959.3	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°	30147.3	100.0
0°-180°	30147.3	100.0

Coefficient of Utilization



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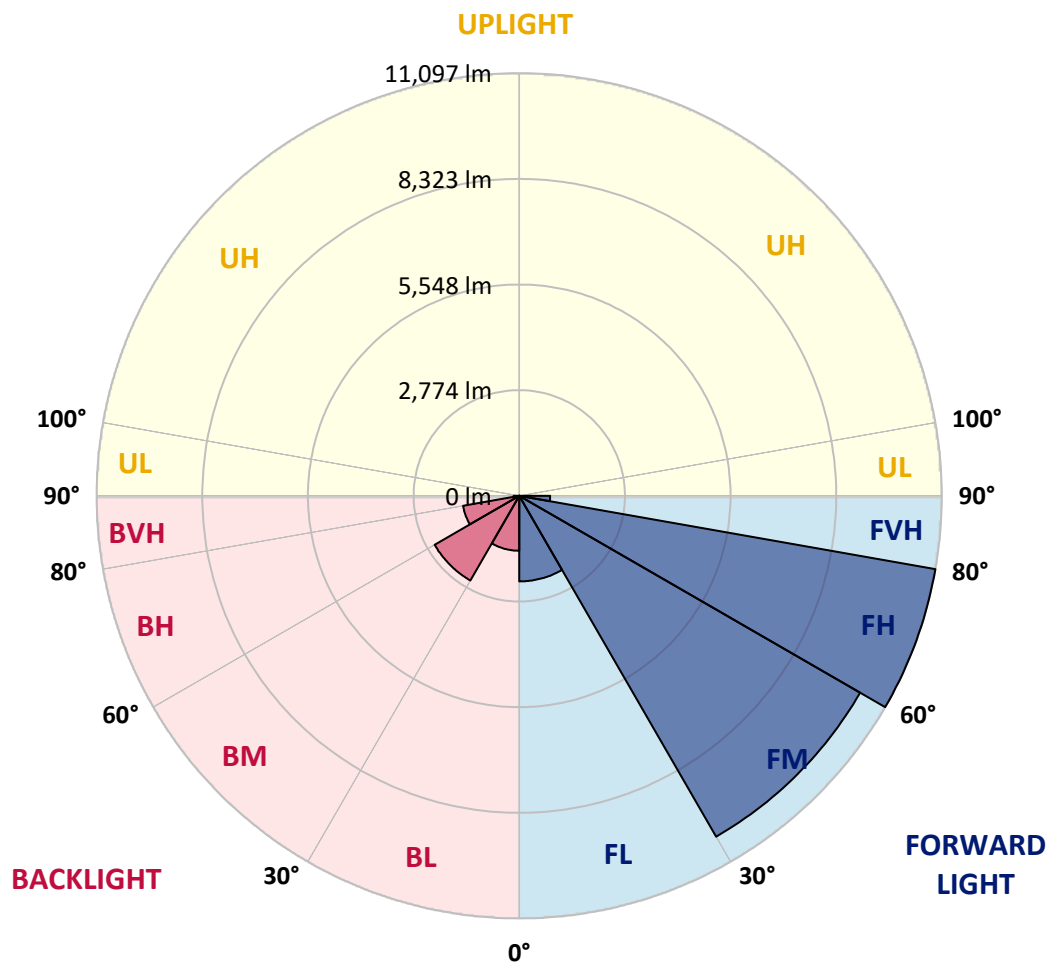
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2247.8	7.5			
FM	(30°-60°)	10335.7	34.3			
FH	(60°-80°)	11096.9	36.8			G4/12000
FVH	(80°-90°)	812.5	2.7			G5
BL	(0°-30°)	1442.9	4.8	B3/2500		
BM	(30°-60°)	2566.5	8.5	B3/5000		
BH	(60°-80°)	1498.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	146.8	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5
2.5°	5580.5	5561.0	5580.5	5572.4	5569.1	5562.7	5564.3	5575.6	5569.1	5577.2	5549.7
5°	5543.2	5531.8	5551.3	5546.5	5567.5	5570.8	5591.9	5604.8	5612.9	5614.5	5593.4
7.5°	5481.6	5470.2	5497.8	5520.4	5566.0	5578.9	5622.6	5643.8	5655.1	5674.6	5643.8
10°	5256.1	5251.3	5319.4	5405.3	5512.3	5578.9	5645.4	5681.1	5698.9	5750.8	5715.1
12.5°	4857.2	4863.7	4952.9	5118.3	5332.4	5546.5	5671.3	5723.2	5750.8	5815.6	5799.4
15°	4476.1	4474.4	4571.8	4748.5	5048.5	5403.7	5684.3	5773.5	5820.6	5916.2	5903.3
17.5°	4255.5	4249.0	4317.1	4451.8	4730.7	5184.8	5651.8	5801.1	5901.6	6021.7	6010.3
20°	4215.0	4202.0	4237.7	4304.2	4502.0	4944.8	5567.5	5801.1	5966.5	6122.1	6115.7
22.5°	4362.6	4341.5	4326.8	4318.7	4406.4	4746.9	5471.9	5781.6	6062.2	6266.5	6255.2
25°	4659.3	4627.0	4552.3	4479.4	4453.4	4657.7	5387.5	5776.7	6204.8	6461.1	6419.0
27.5°	5139.3	5098.9	4948.0	4772.8	4615.6	4703.1	5350.2	5805.9	6362.2	6667.1	6582.8
30°	5734.6	5690.8	5501.1	5231.8	4949.6	4871.8	5397.2	5891.9	6563.3	6941.2	6775.8
32.5°	6268.1	6219.5	6057.3	5783.3	5402.1	5163.7	5546.5	6055.7	6879.5	7322.3	7066.0
35°	6741.7	6684.9	6539.0	6286.0	5956.8	5574.1	5815.6	6346.0	7328.7	7941.8	7460.2
37.5°	7205.5	7139.0	6980.0	6712.5	6482.2	6120.6	6187.0	6719.0	7925.6	8694.3	7982.3
40°	7724.5	7628.8	7435.8	7171.4	6947.7	6761.1	6675.2	7176.3	8532.1	9534.3	8634.3
42.5°	8227.3	8136.4	7906.1	7680.7	7400.1	7346.6	7241.2	7711.5	9195.4	10457.2	9295.9
45°	8768.9	8660.2	8381.3	8095.9	7919.0	7735.9	7789.4	8246.6	9845.7	11397.8	9990.1
47.5°	9276.6	9154.9	8825.7	8507.8	8410.5	8063.5	8292.0	8835.4	10522.0	12351.4	10677.7
50°	9550.5	9430.6	9156.5	8869.4	8793.3	8467.2	8837.0	9482.5	11230.7	13301.7	11337.7
52.5°	9779.2	9649.6	9291.1	9132.1	9109.5	8906.7	9508.4	10222.0	11939.4	14141.8	11975.2
55°	10022.6	9878.2	9420.9	9278.1	9381.9	9399.8	10304.7	11060.5	12688.7	14960.8	12576.9
57.5°	10303.1	10119.8	9545.7	9401.4	9647.9	9977.1	11219.3	11929.8	13425.0	15719.8	13112.0
60°	10567.4	10382.5	9785.8	9597.6	9934.9	10646.9	12268.6	12982.2	14258.6	16396.1	13617.9
62.5°	10619.3	10466.9	9977.1	9975.5	10324.2	11428.5	13510.9	14044.6	14986.7	17064.2	14072.1
65°	9720.9	9625.2	9334.9	9960.8	10882.0	12554.1	14894.3	15403.5	15912.8	17648.0	14471.1
67.5°	7398.6	7411.5	7390.4	8598.6	10431.2	14171.0	16897.2	16858.3	17056.1	18303.2	14929.9
70°	3383.0	3459.3	3955.5	5935.7	8356.9	14357.5	20208.8	19704.5	18491.4	19151.4	15327.3
72.5°	1827.8	1886.1	2088.8	2875.4	5024.2	12764.9	22683.7	23042.1	20400.2	19722.3	14891.1
75°	1341.2	1373.6	1514.7	1827.8	2110.0	9487.3	21796.5	23635.7	20638.6	18390.9	12859.0
77.5°	1003.9	1018.4	1133.6	1448.2	1080.1	5001.5	17416.2	19574.7	17667.5	15110.0	9498.7
80°	728.2	744.4	830.4	1086.6	757.4	1829.3	11958.9	13739.6	12100.0	9631.7	4734.0
82.5°	502.8	509.2	546.5	739.5	528.7	710.3	6785.5	8056.9	6754.6	3379.7	1278.0
85°	303.3	311.4	327.6	431.4	300.0	337.3	2928.9	3029.5	2019.1	807.6	397.3
87.5°	124.8	132.9	146.0	181.6	118.4	94.1	483.3	606.5	377.9	236.8	123.2
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°	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5	5533.5
2.5°	5541.6	5530.2	5499.4	5457.2	5418.4	5369.7	5348.6	5330.7	5314.5	5283.7	5269.1
5°	5575.6	5544.8	5462.1	5355.1	5233.4	5100.5	4970.7	4881.6	4805.3	4748.5	4701.5
7.5°	5627.6	5569.1	5418.4	5199.4	4920.4	4635.0	4377.2	4193.9	4056.0	4005.8	3918.2
10°	5681.1	5611.4	5348.6	4962.6	4481.0	4041.5	3699.2	3511.1	3400.8	3365.2	3310.0
12.5°	5744.3	5642.1	5239.9	4633.4	3989.5	3507.9	3209.5	3099.2	3042.4	3022.9	3027.8
15°	5836.8	5668.0	5076.1	4221.5	3520.9	3118.7	2925.7	2849.4	2820.3	2818.6	2825.1
17.5°	5906.5	5673.0	4821.5	3780.3	3160.8	2883.5	2724.6	2695.3	2714.8	2744.0	2755.4
20°	5984.4	5629.2	4487.4	3378.1	2907.8	2677.5	2611.1	2630.5	2677.5	2719.7	2734.3
22.5°	6039.5	5549.7	4083.6	3065.2	2688.9	2559.1	2555.9	2596.4	2622.4	2643.5	2654.9
25°	6088.1	5415.1	3655.5	2802.5	2508.9	2487.8	2523.4	2510.5	2492.7	2510.5	2521.8
27.5°	6123.8	5202.6	3272.7	2572.1	2382.4	2439.1	2418.1	2388.9	2387.2	2397.0	2413.2
30°	6112.5	4918.8	2958.1	2353.2	2293.1	2348.3	2298.0	2293.1	2288.3	2293.1	2311.1
32.5°	6112.5	4596.1	2716.5	2202.3	2236.4	2215.3	2210.5	2199.1	2179.7	2178.0	2199.1
35°	6146.5	4273.3	2508.9	2121.2	2189.4	2139.1	2142.4	2114.8	2074.2	2054.8	2074.2
37.5°	6216.2	4013.9	2302.9	2082.4	2106.7	2105.0	2092.1	2045.1	1973.7	1912.0	1933.2
40°	6384.9	3937.6	2161.8	2064.6	2067.7	2087.2	2053.2	1962.4	1800.2	1699.7	1712.6
42.5°	6649.3	4065.8	2131.0	2020.7	2041.8	2061.3	1994.8	1783.9	1668.8	1608.8	1608.8
45°	6985.0	4289.6	2197.5	1957.4	1980.2	2014.2	1816.4	1715.8	1663.9	1665.5	1673.6
47.5°	7409.8	4524.8	2320.7	1902.3	1891.0	1910.4	1698.0	1636.4	1565.0	1582.8	1628.2
50°	7901.2	4763.2	2437.6	1827.8	1792.0	1728.8	1621.8	1563.4	1472.5	1430.4	1441.8
52.5°	8433.2	4993.4	2484.5	1736.9	1685.0	1612.0	1569.9	1498.6	1388.3	1318.5	1316.9
55°	8937.6	5202.6	2432.6	1628.2	1578.0	1521.2	1514.7	1471.0	1352.6	1255.2	1255.2
57.5°	9414.3	5377.8	2302.9	1518.0	1469.3	1435.3	1479.1	1458.0	1308.7	1183.9	1177.4
60°	9818.2	5497.8	2114.8	1406.1	1372.1	1354.1	1420.6	1414.2	1247.1	1107.7	1102.8
62.5°	10139.3	5544.8	1907.2	1299.1	1290.9	1258.5	1339.6	1339.6	1169.3	1033.1	1028.2
65°	10390.6	5499.4	1696.4	1193.6	1209.8	1161.2	1240.7	1230.9	1086.6	966.6	960.1
67.5°	10612.8	5350.2	1462.9	1089.8	1127.1	1065.5	1136.8	1114.2	995.8	900.1	893.6
70°	10711.8	5003.1	1196.9	986.0	1031.5	971.4	1033.1	990.9	893.6	828.7	815.8
72.5°	9917.1	4158.2	942.3	877.4	916.2	867.7	921.2	872.5	783.3	754.1	729.8
75°	8204.5	3120.3	724.9	759.0	788.2	750.9	786.6	750.9	669.8	690.8	630.9
77.5°	5958.3	2106.7	554.6	634.1	647.1	627.6	658.5	617.9	544.9	540.1	515.7
80°	2963.0	1234.2	434.6	501.1	496.3	483.3	519.0	499.5	437.9	463.8	459.0
82.5°	857.9	528.7	316.2	351.9	342.1	345.4	371.4	381.1	570.8	566.0	578.9
85°	269.2	207.6	189.7	196.2	186.5	191.4	218.9	434.6	402.2	235.1	254.6
87.5°	69.7	71.3	47.0	50.2	51.9	61.6	69.7	264.3	126.5	82.7	87.5
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)