

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: P968155

Luminaire Tested: **NAV-SB5B-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968155
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-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 23539.1 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

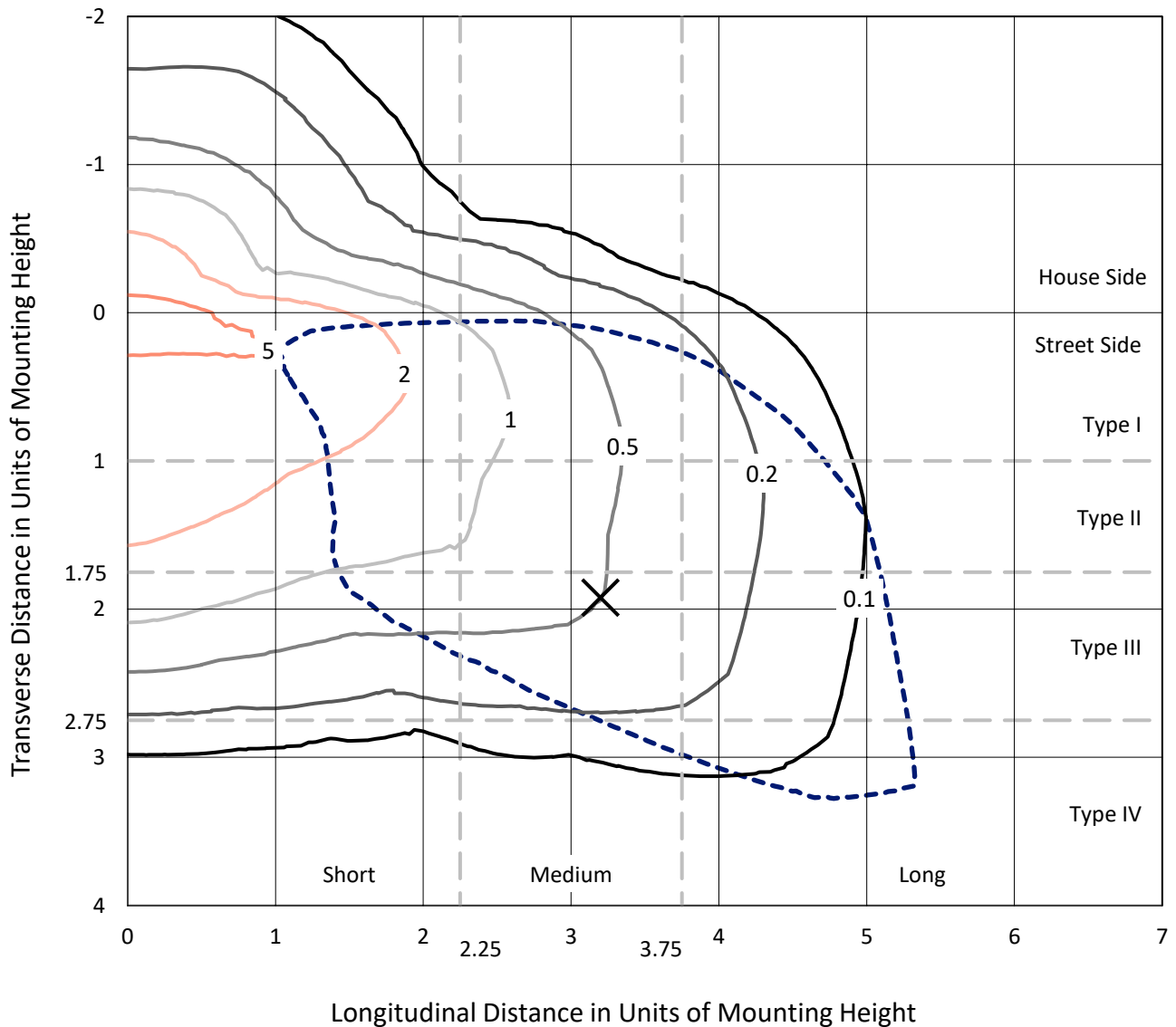
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

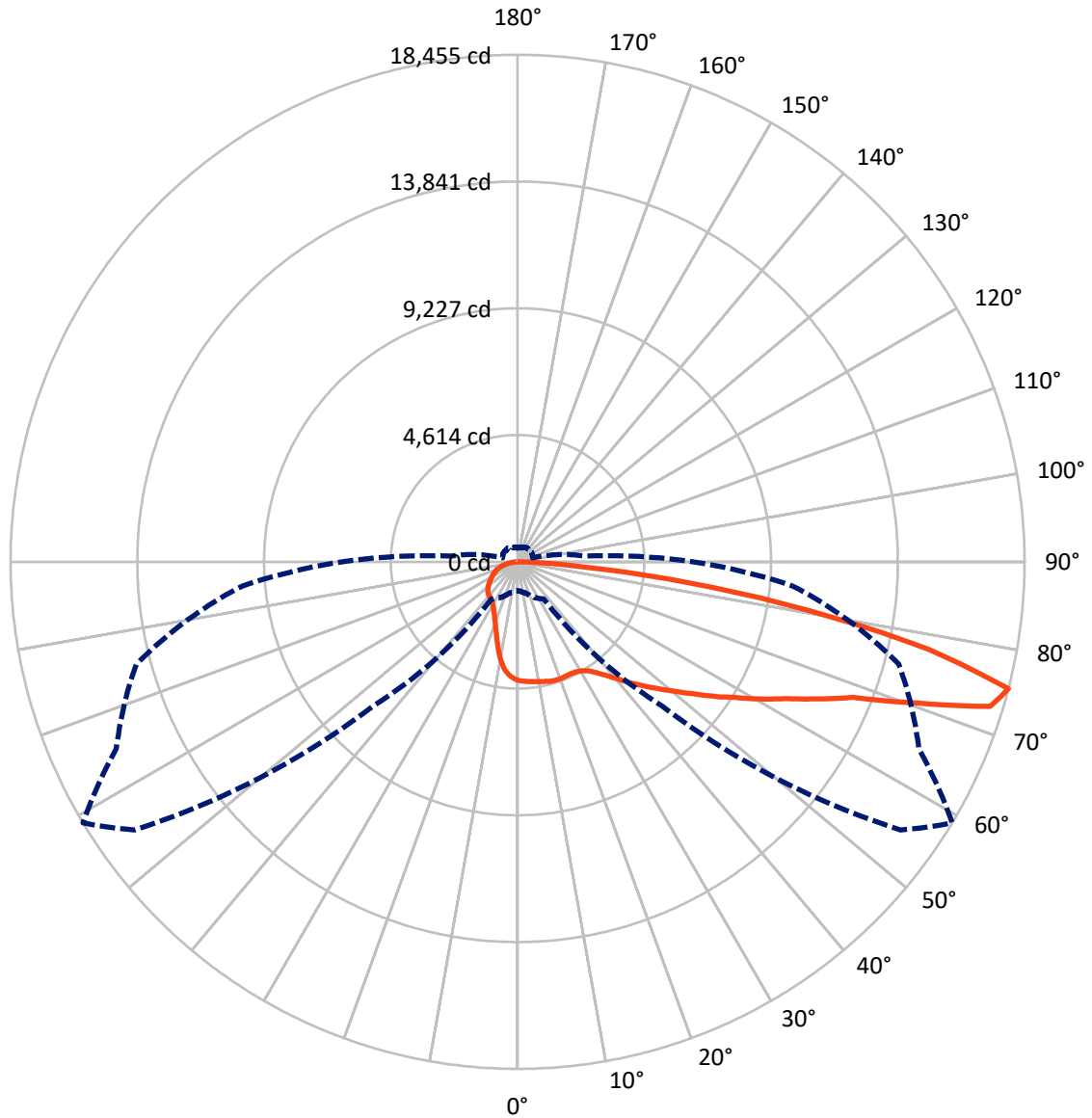
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4414.9	0.0	4414.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19124.2	0.0	19124.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	23539.1	0.0	23539.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	1.6
10°-20°	990.2	4.2
20°-30°	1504.1	6.4
30°-40°	2235.8	9.5
40°-50°	3325.0	14.1
50°-60°	4513.3	19.2
60°-70°	5510.0	23.4
70°-80°	4324.2	18.4
80°-90°	749.1	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°	23539.1	100.0
0°-180°	23539.1	100.0

Coefficient of Utilization

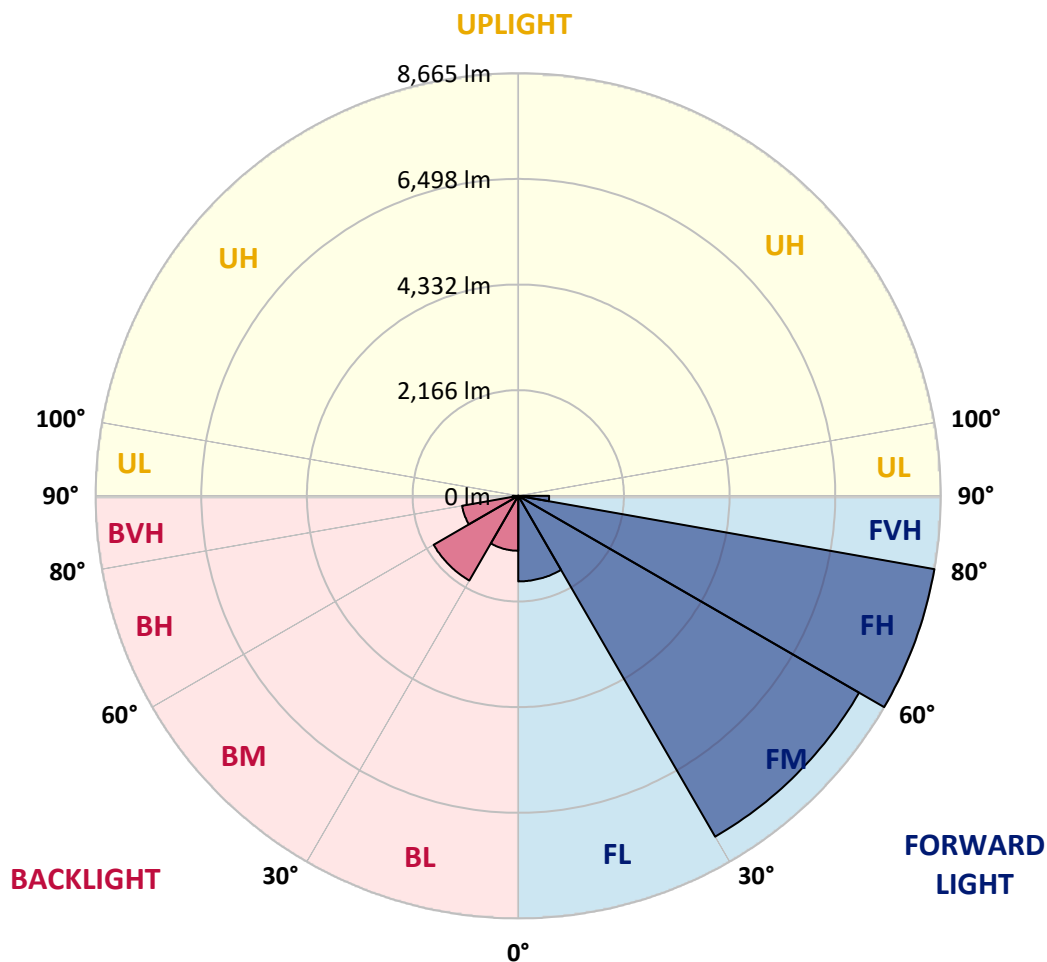


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.1	7.5			
FM (30°-60°)	8070.2	34.3			
FH (60°-80°)	8664.5	36.8			G4/12000
FVH (80°-90°)	634.4	2.7			G4/750
BL (0°-30°)	1126.6	4.8	B3/2500		
BM (30°-60°)	2003.9	8.5	B2/2500		
BH (60°-80°)	1169.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	114.7	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°	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6
2.5°	4357.3	4342.1	4357.3	4350.9	4348.5	4343.3	4344.6	4353.5	4348.5	4354.7	4333.2
5°	4328.2	4319.2	4334.5	4330.7	4347.1	4349.7	4366.1	4376.2	4382.6	4383.8	4367.4
7.5°	4280.0	4271.2	4292.7	4310.4	4345.9	4356.0	4390.2	4406.7	4415.5	4430.8	4406.7
10°	4104.0	4100.2	4153.4	4220.5	4304.1	4356.0	4407.9	4435.8	4449.7	4490.2	4462.3
12.5°	3792.5	3797.6	3867.2	3996.4	4163.5	4330.7	4428.2	4468.7	4490.2	4540.9	4528.2
15°	3494.9	3493.7	3569.7	3707.6	3941.9	4219.2	4438.4	4508.0	4544.6	4619.4	4609.2
17.5°	3322.7	3317.6	3370.8	3476.0	3693.8	4048.3	4413.0	4529.5	4608.0	4701.7	4692.9
20°	3291.1	3280.9	3308.8	3360.7	3515.2	3860.9	4347.1	4529.5	4658.6	4780.2	4775.2
22.5°	3406.3	3389.9	3378.4	3372.1	3440.5	3706.4	4272.4	4514.3	4733.3	4892.9	4884.0
25°	3638.0	3612.7	3554.5	3497.5	3477.2	3636.8	4206.6	4510.5	4844.8	5044.8	5011.9
27.5°	4012.9	3981.2	3863.4	3726.7	3603.8	3672.3	4177.5	4533.3	4967.7	5205.7	5139.9
30°	4477.6	4443.4	4295.3	4085.0	3864.7	3803.9	4214.2	4600.4	5124.7	5419.7	5290.5
32.5°	4894.2	4856.1	4729.6	4515.5	4218.0	4031.8	4330.7	4728.3	5371.6	5717.2	5517.2
35°	5263.9	5219.6	5105.6	4908.1	4651.0	4352.3	4540.9	4955.0	5722.4	6200.9	5824.9
37.5°	5626.1	5574.2	5450.0	5241.1	5061.3	4779.0	4830.8	5246.2	6188.3	6788.6	6232.6
40°	6031.3	5956.6	5805.9	5599.5	5424.7	5279.2	5212.0	5603.3	6661.9	7444.5	6741.7
42.5°	6423.9	6353.0	6173.2	5997.1	5778.0	5736.2	5653.9	6021.2	7179.8	8164.9	7258.3
45°	6846.8	6761.9	6544.1	6321.3	6183.2	6040.1	6081.9	6439.0	7687.6	8899.5	7800.2
47.5°	7243.2	7148.1	6891.1	6642.9	6567.0	6296.0	6474.5	6898.7	8215.7	9644.0	8337.2
50°	7457.2	7363.4	7149.5	6925.3	6865.8	6611.2	6900.0	7404.0	8769.0	10386.0	8852.6
52.5°	7635.6	7534.4	7254.5	7130.4	7112.7	6954.4	7424.2	7981.4	9322.4	11042.0	9350.3
55°	7825.7	7712.9	7355.8	7244.4	7325.5	7339.4	8045.9	8636.0	9907.3	11681.4	9820.0
57.5°	8044.7	7901.6	7453.3	7340.6	7533.1	7790.2	8760.2	9314.8	10482.3	12274.1	10237.9
60°	8251.0	8106.7	7640.8	7493.9	7757.2	8313.2	9579.4	10136.6	11133.1	12802.1	10632.9
62.5°	8291.6	8172.6	7790.2	7788.9	8061.1	8923.4	10549.4	10966.0	11701.7	13323.8	10987.5
65°	7590.1	7515.4	7288.7	7777.5	8496.7	9802.3	11629.5	12027.1	12424.7	13779.7	11299.0
67.5°	5776.8	5786.9	5770.4	6713.9	8144.8	11064.8	13193.4	13163.0	13317.5	14291.3	11657.4
70°	2641.4	2701.0	3088.4	4634.6	6525.2	11210.4	15779.2	15385.4	14438.2	14953.5	11967.6
72.5°	1427.1	1472.7	1631.0	2245.2	3923.0	9966.9	17711.5	17991.3	15928.6	15399.3	11627.0
75°	1047.2	1072.6	1182.7	1427.1	1647.5	7407.8	17018.8	18454.8	16114.7	14359.6	10040.4
77.5°	783.8	795.2	885.1	1130.8	843.4	3905.2	13598.6	15284.0	13794.9	11798.0	7416.6
80°	568.6	581.2	648.3	848.4	591.3	1428.3	9337.5	10728.0	9447.7	7520.4	3696.3
82.5°	392.6	397.6	426.7	577.4	412.8	554.6	5298.1	6290.9	5274.0	2639.0	997.8
85°	236.8	243.1	255.8	336.8	234.2	263.4	2286.9	2365.4	1576.6	630.6	310.3
87.5°	97.5	103.8	114.0	141.9	92.5	73.5	377.3	473.6	295.0	184.9	96.2
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°	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6	4320.6
2.5°	4326.9	4318.0	4293.9	4261.0	4230.7	4192.7	4176.2	4162.2	4149.6	4125.5	4114.1
5°	4353.5	4329.4	4264.8	4181.3	4086.3	3982.4	3881.2	3811.5	3752.0	3707.6	3670.9
7.5°	4394.0	4348.5	4230.7	4059.7	3841.9	3619.1	3417.7	3274.6	3166.9	3127.7	3059.3
10°	4435.8	4381.4	4176.2	3874.8	3498.7	3155.6	2888.3	2741.5	2655.4	2627.5	2584.4
12.5°	4485.2	4405.3	4091.4	3617.7	3115.1	2739.0	2506.0	2419.8	2375.5	2360.4	2364.2
15°	4557.4	4425.6	3963.5	3296.1	2749.0	2435.1	2284.4	2224.9	2202.1	2200.8	2205.9
17.5°	4611.8	4429.4	3764.6	2951.7	2468.0	2251.4	2127.4	2104.5	2119.8	2142.6	2151.4
20°	4672.6	4395.3	3503.8	2637.6	2270.5	2090.6	2038.7	2053.9	2090.6	2123.6	2135.0
22.5°	4715.6	4333.2	3188.5	2393.3	2099.5	1998.2	1995.7	2027.3	2047.5	2064.0	2072.9
25°	4753.6	4228.1	2854.2	2188.2	1959.0	1942.5	1970.4	1960.2	1946.3	1960.2	1969.0
27.5°	4781.5	4062.3	2555.3	2008.3	1860.2	1904.4	1888.0	1865.2	1864.0	1871.5	1884.3
30°	4772.6	3840.7	2309.7	1837.4	1790.6	1833.6	1794.4	1790.6	1786.7	1790.6	1804.4
32.5°	4772.6	3588.6	2121.0	1719.6	1746.2	1729.8	1725.9	1717.1	1701.9	1700.6	1717.1
35°	4799.3	3336.7	1959.0	1656.3	1709.5	1670.2	1672.8	1651.3	1619.6	1604.3	1619.6
37.5°	4853.7	3134.0	1798.2	1625.9	1644.9	1643.6	1633.5	1596.7	1541.1	1492.9	1509.4
40°	4985.4	3074.5	1688.0	1612.0	1614.5	1629.7	1603.1	1532.2	1405.6	1327.1	1337.2
42.5°	5191.7	3174.5	1663.9	1577.8	1594.3	1609.5	1557.5	1392.9	1303.0	1256.1	1256.1
45°	5453.9	3349.3	1715.8	1528.4	1546.1	1572.8	1418.2	1339.8	1299.2	1300.5	1306.8
47.5°	5785.6	3533.0	1812.1	1485.3	1476.5	1491.7	1325.8	1277.7	1222.0	1235.8	1271.3
50°	6169.4	3719.1	1903.2	1427.1	1399.2	1349.8	1266.3	1220.7	1149.7	1116.8	1125.8
52.5°	6584.7	3898.9	1939.9	1356.2	1315.7	1258.7	1225.8	1170.0	1083.9	1029.5	1028.2
55°	6978.5	4062.3	1899.4	1271.3	1232.0	1187.8	1182.7	1148.5	1056.1	980.1	980.1
57.5°	7350.8	4199.0	1798.2	1185.2	1147.3	1120.6	1154.9	1138.4	1021.9	924.3	919.3
60°	7666.1	4292.7	1651.3	1097.9	1071.2	1057.4	1109.3	1104.2	973.7	864.9	861.1
62.5°	7916.8	4329.4	1489.1	1014.3	1008.0	982.7	1045.9	1045.9	913.0	806.6	802.8
65°	8113.1	4293.9	1324.5	932.0	944.6	906.6	968.7	961.1	848.4	754.7	749.7
67.5°	8286.5	4177.5	1142.2	851.0	880.1	832.0	887.6	869.9	777.5	702.7	697.7
70°	8363.8	3906.5	934.5	769.9	805.3	758.5	806.6	773.7	697.7	647.1	636.9
72.5°	7743.4	3246.8	735.7	685.0	715.4	677.4	719.2	681.2	611.6	588.9	569.8
75°	6406.1	2436.3	566.0	592.7	615.4	586.3	614.2	586.3	523.0	539.5	492.6
77.5°	4652.3	1644.9	433.1	495.1	505.2	490.1	514.1	482.5	425.5	421.7	402.7
80°	2313.5	963.6	339.4	391.2	387.4	377.3	405.2	390.0	341.9	362.1	358.3
82.5°	669.8	412.8	246.9	274.8	267.2	269.7	290.0	297.6	445.8	442.0	452.0
85°	210.2	162.1	148.1	153.2	145.7	149.4	171.0	339.4	314.1	183.6	198.8
87.5°	54.4	55.8	36.7	39.3	40.5	48.1	54.4	206.4	98.8	64.6	68.4
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)