

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: P970263

Luminaire Tested: **NAV-SB6B-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970263
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-SB6B-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 28258.2 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

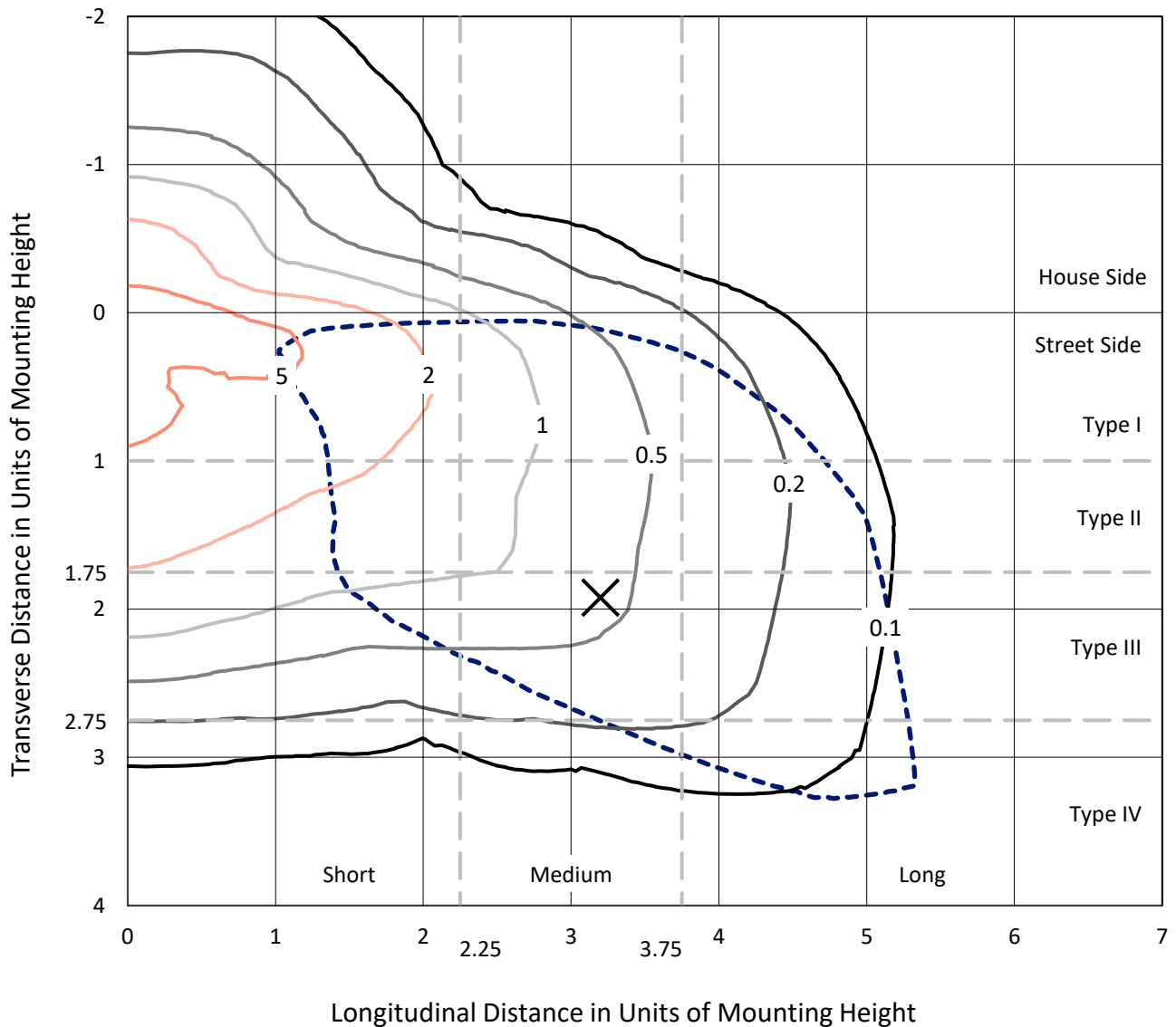
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

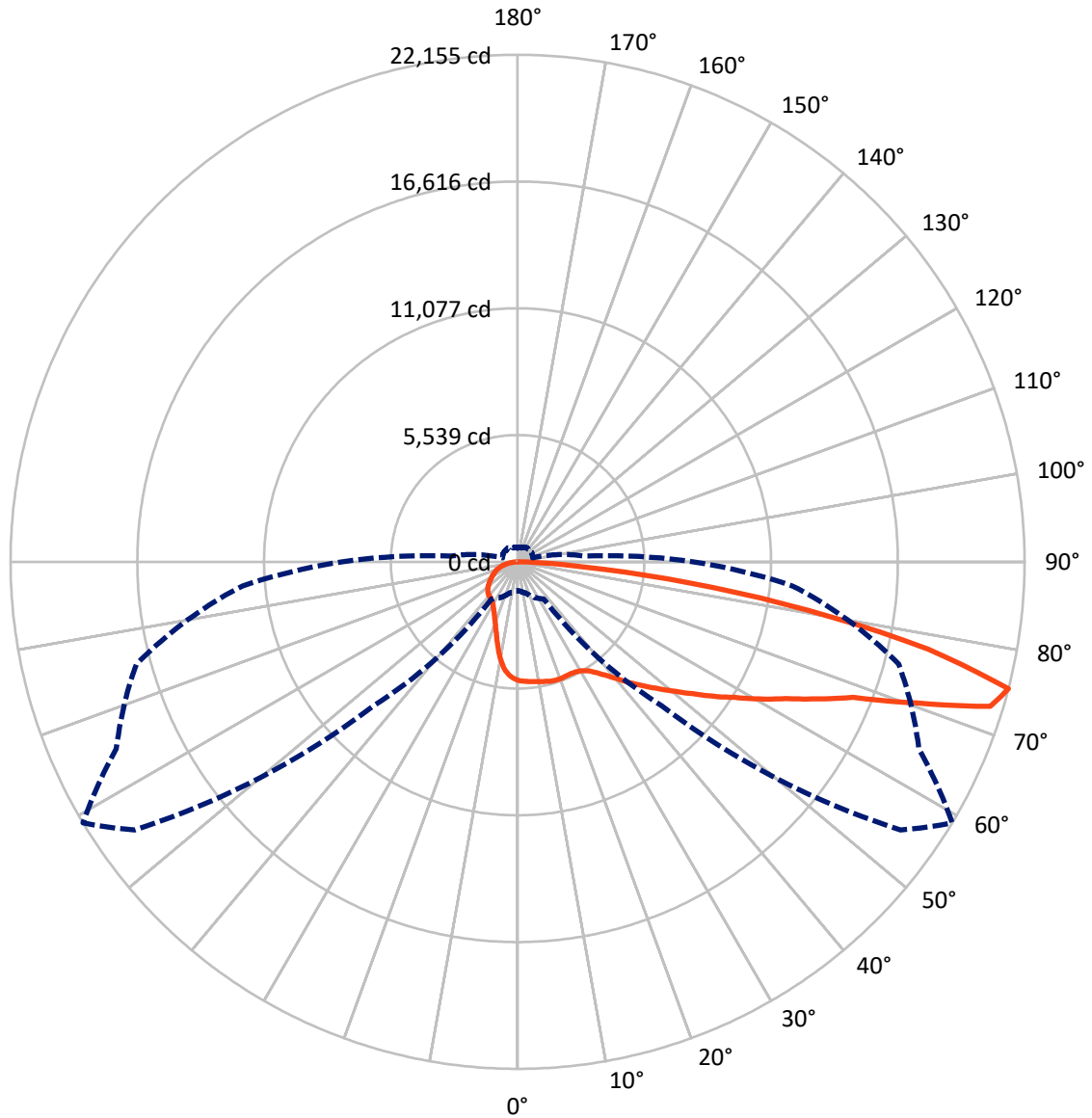
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	5300.0	0.0	5300.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22958.2	0.0	22958.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	28258.2	0.0	28258.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.1	1.6
10°-20°	1188.8	4.2
20°-30°	1805.6	6.4
30°-40°	2684.0	9.5
40°-50°	3991.6	14.1
50°-60°	5418.1	19.2
60°-70°	6614.7	23.4
70°-80°	5191.1	18.4
80°-90°	899.2	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°	28258.2	100.0
0°-180°	28258.2	100.0

Coefficient of Utilization

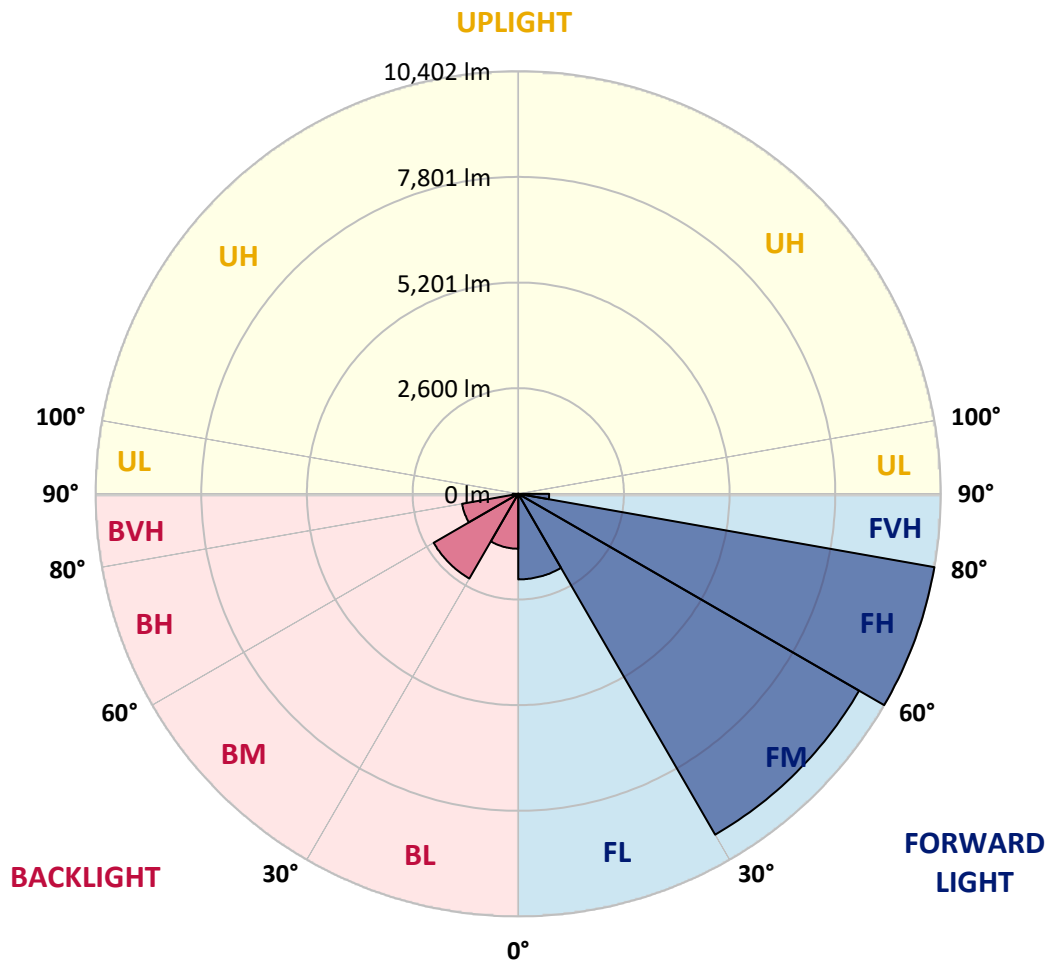


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.0	7.5			
FM (30°-60°)	9688.1	34.3			
FH (60°-80°)	10401.6	36.8			G4/12000
FVH (80°-90°)	761.6	2.7			G5
BL (0°-30°)	1352.5	4.8	B3/2500		
BM (30°-60°)	2405.7	8.5	B2/2500		
BH (60°-80°)	1404.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	137.6	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°	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7
2.5°	5230.8	5212.5	5230.8	5223.2	5220.2	5214.1	5215.6	5226.3	5220.2	5227.8	5202.0
5°	5195.8	5185.2	5203.4	5198.9	5218.7	5221.7	5241.4	5253.6	5261.2	5262.8	5243.0
7.5°	5138.1	5127.5	5153.3	5174.6	5217.1	5229.3	5270.3	5290.1	5300.8	5319.0	5290.1
10°	4926.8	4922.3	4986.1	5066.7	5166.9	5229.3	5291.7	5325.1	5341.8	5390.5	5357.0
12.5°	4552.8	4558.9	4642.5	4797.6	4998.2	5198.9	5316.0	5364.5	5390.5	5451.3	5436.1
15°	4195.6	4194.1	4285.3	4451.0	4732.2	5065.1	5328.2	5411.7	5455.8	5545.5	5533.4
17.5°	3988.9	3982.7	4046.6	4172.8	4434.3	4859.9	5297.7	5437.5	5531.8	5644.3	5633.7
20°	3950.9	3938.7	3972.2	4034.5	4219.9	4634.9	5218.7	5437.5	5592.6	5738.6	5732.4
22.5°	4089.2	4069.5	4055.7	4048.1	4130.2	4449.4	5129.0	5419.3	5682.3	5873.9	5863.2
25°	4367.4	4337.0	4267.1	4198.6	4174.3	4365.9	5050.0	5414.8	5816.1	6056.2	6016.7
27.5°	4817.3	4779.4	4637.9	4473.8	4326.3	4408.4	5014.9	5442.1	5963.6	6249.3	6170.3
30°	5375.2	5334.2	5156.4	4904.0	4639.5	4566.5	5059.1	5522.7	6152.0	6506.2	6351.2
32.5°	5875.4	5829.8	5677.8	5420.8	5063.6	4840.2	5198.9	5676.2	6448.5	6863.5	6623.2
35°	6319.2	6266.0	6129.2	5892.1	5583.5	5224.7	5451.3	5948.3	6869.6	7444.2	6992.7
37.5°	6754.0	6691.7	6542.7	6291.9	6076.0	5737.0	5799.3	6298.0	7429.0	8149.5	7482.2
40°	7240.5	7150.8	6969.9	6722.1	6512.3	6337.5	6256.9	6726.7	7997.5	8937.0	8093.3
42.5°	7711.7	7626.6	7410.7	7199.4	6936.4	6886.3	6787.4	7228.3	8619.2	9801.9	8713.4
45°	8219.4	8117.6	7856.1	7588.6	7422.8	7251.1	7301.3	7729.9	9228.8	10683.6	9364.1
47.5°	8695.2	8581.2	8272.7	7974.7	7883.5	7558.1	7772.5	8281.8	9862.7	11577.4	10008.6
50°	8952.1	8839.6	8582.7	8313.7	8242.2	7936.7	8283.2	8888.3	10527.0	12468.2	10627.3
52.5°	9166.5	9044.9	8708.9	8560.0	8538.7	8348.6	8912.6	9581.5	11191.3	13255.7	11224.8
55°	9394.5	9259.2	8830.5	8696.7	8794.0	8810.8	9659.0	10367.4	11893.6	14023.3	11788.7
57.5°	9657.4	9485.7	8947.5	8812.2	9043.4	9351.9	10516.4	11182.1	12583.7	14734.8	12290.4
60°	9905.3	9732.0	9172.5	8996.2	9312.4	9979.7	11499.9	12168.8	13365.1	15368.6	12764.6
62.5°	9953.9	9811.0	9351.9	9350.5	9677.2	10712.5	12664.3	13164.5	14047.6	15994.9	13190.3
65°	9111.7	9022.0	8749.9	9336.7	10200.2	11767.4	13961.0	14438.4	14915.7	16542.2	13564.2
67.5°	6934.9	6947.0	6927.3	8059.8	9777.6	13283.0	15838.4	15801.9	15987.3	17156.3	13994.4
70°	3171.0	3242.5	3707.6	5563.7	7833.4	13457.8	18942.5	18469.8	17332.6	17951.4	14366.9
72.5°	1713.2	1767.9	1958.0	2695.2	4709.4	11965.0	21262.3	21598.2	19121.9	18486.5	13957.9
75°	1257.2	1287.6	1419.8	1713.2	1977.7	8892.8	20430.7	22154.6	19345.3	17238.4	12053.2
77.5°	941.0	954.7	1062.6	1357.5	1012.4	4688.1	16324.9	18348.1	16560.4	14163.1	8903.5
80°	682.5	697.7	778.3	1018.5	709.9	1714.7	11209.5	12878.7	11341.8	9028.1	4437.3
82.5°	471.3	477.3	512.3	693.2	495.6	665.8	6360.3	7552.1	6331.4	3168.0	1197.9
85°	284.2	291.8	307.1	404.4	281.3	316.2	2745.4	2839.7	1892.6	757.1	372.5
87.5°	117.1	124.6	136.8	170.3	111.0	88.1	453.0	568.6	354.2	221.9	115.5
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°	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7	5186.7
2.5°	5194.3	5183.7	5154.8	5115.3	5078.8	5033.2	5013.5	4996.7	4981.5	4952.6	4939.0
5°	5226.3	5197.4	5119.9	5019.5	4905.5	4780.8	4659.2	4575.6	4504.2	4451.0	4406.9
7.5°	5274.9	5220.2	5078.8	4873.6	4612.1	4344.6	4102.9	3931.1	3801.9	3754.8	3672.7
10°	5325.1	5259.7	5013.5	4651.7	4200.1	3788.2	3467.5	3291.1	3187.7	3154.3	3102.6
12.5°	5384.3	5288.6	4911.6	4343.0	3739.5	3288.1	3008.4	2905.0	2851.8	2833.5	2838.1
15°	5471.0	5312.9	4758.0	3956.9	3300.2	2923.2	2742.4	2670.9	2643.6	2642.0	2648.1
17.5°	5536.3	5317.5	4519.4	3543.4	2962.8	2702.8	2553.9	2526.5	2544.8	2572.1	2582.7
20°	5609.3	5276.4	4206.2	3166.4	2725.6	2509.7	2447.4	2465.6	2509.7	2549.3	2563.0
22.5°	5661.0	5202.0	3827.8	2873.1	2520.4	2398.8	2395.7	2433.8	2458.1	2477.8	2488.5
25°	5706.6	5075.8	3426.4	2626.8	2351.7	2331.9	2365.4	2353.2	2336.5	2353.2	2363.9
27.5°	5740.1	4876.6	3067.6	2410.9	2233.1	2286.3	2266.6	2239.2	2237.7	2246.8	2262.0
30°	5729.4	4610.6	2772.7	2205.7	2149.5	2201.2	2154.0	2149.5	2144.9	2149.5	2166.2
32.5°	5729.4	4308.1	2546.2	2064.4	2096.3	2076.5	2071.9	2061.3	2043.0	2041.6	2061.3
35°	5761.3	4005.6	2351.7	1988.4	2052.2	2005.1	2008.1	1982.2	1944.2	1926.0	1944.2
37.5°	5826.7	3762.4	2158.6	1951.9	1974.7	1973.1	1961.0	1916.9	1850.0	1792.2	1812.0
40°	5984.8	3690.9	2026.3	1935.1	1938.2	1956.4	1924.5	1839.4	1687.4	1593.2	1605.3
42.5°	6232.6	3811.1	1997.5	1894.1	1913.9	1932.1	1869.8	1672.2	1564.3	1508.0	1508.0
45°	6547.3	4020.8	2059.8	1834.9	1856.1	1888.0	1702.5	1608.3	1559.6	1561.2	1568.8
47.5°	6945.5	4241.2	2175.4	1783.1	1772.5	1790.8	1591.6	1533.8	1467.0	1483.7	1526.2
50°	7406.1	4464.7	2284.8	1713.2	1679.8	1620.5	1520.2	1465.4	1380.3	1340.8	1351.4
52.5°	7904.8	4680.6	2328.9	1628.1	1579.4	1511.1	1471.5	1404.7	1301.2	1235.8	1234.4
55°	8377.5	4876.6	2280.2	1526.2	1479.1	1425.9	1419.8	1378.7	1267.8	1176.6	1176.6
57.5°	8824.4	5040.8	2158.6	1422.9	1377.3	1345.3	1386.4	1366.6	1226.7	1109.7	1103.6
60°	9203.0	5153.3	1982.2	1317.9	1286.1	1269.4	1331.7	1325.5	1169.0	1038.2	1033.7
62.5°	9503.9	5197.4	1787.7	1217.6	1210.0	1179.7	1255.6	1255.6	1096.0	968.3	963.8
65°	9739.6	5154.8	1590.1	1118.8	1134.1	1088.4	1162.9	1153.7	1018.5	906.0	900.0
67.5°	9947.8	5014.9	1371.1	1021.5	1056.5	998.8	1065.6	1044.4	933.4	843.7	837.6
70°	10040.6	4689.7	1121.9	924.2	966.8	910.6	968.3	928.9	837.6	776.7	764.6
72.5°	9295.7	3897.7	883.2	822.4	858.8	813.2	863.5	817.8	734.2	706.8	684.1
75°	7690.4	2924.7	679.5	711.5	738.8	703.9	737.3	703.9	627.8	647.6	591.3
77.5°	5585.0	1974.7	519.9	594.4	606.5	588.2	617.2	579.1	510.8	506.2	483.4
80°	2777.3	1156.8	407.4	469.8	465.1	453.0	486.5	468.2	410.4	434.8	430.2
82.5°	804.1	495.6	296.4	329.8	320.7	323.8	348.1	357.2	535.0	530.5	542.7
85°	252.4	194.5	177.8	184.0	174.9	179.4	205.2	407.4	377.0	220.4	238.6
87.5°	65.4	66.9	44.1	47.2	48.7	57.8	65.4	247.7	118.6	77.5	82.1
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)