

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: P965024

Luminaire Tested: **NAV-SB3D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965024
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-SB3D-727-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28368.9 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

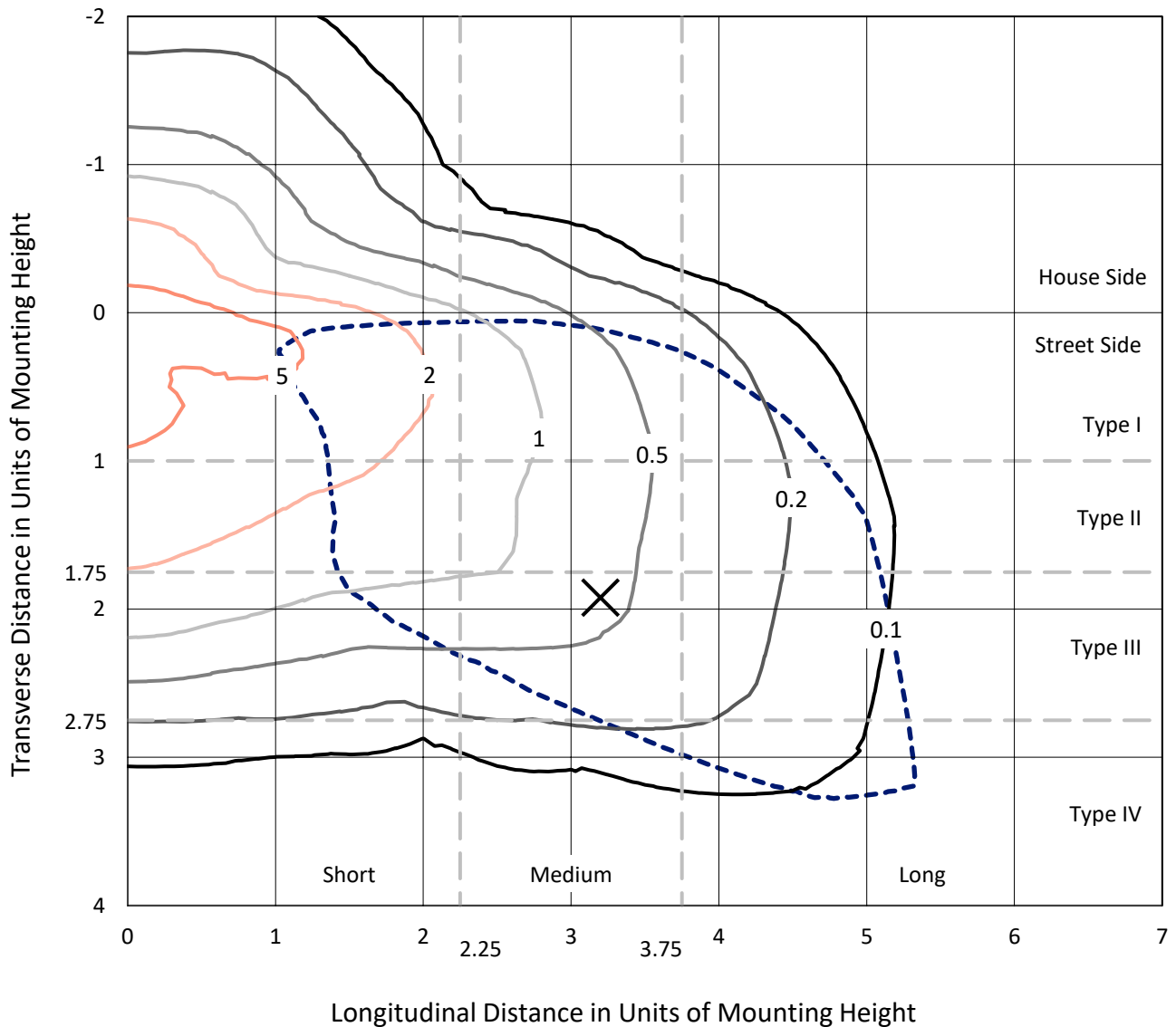
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

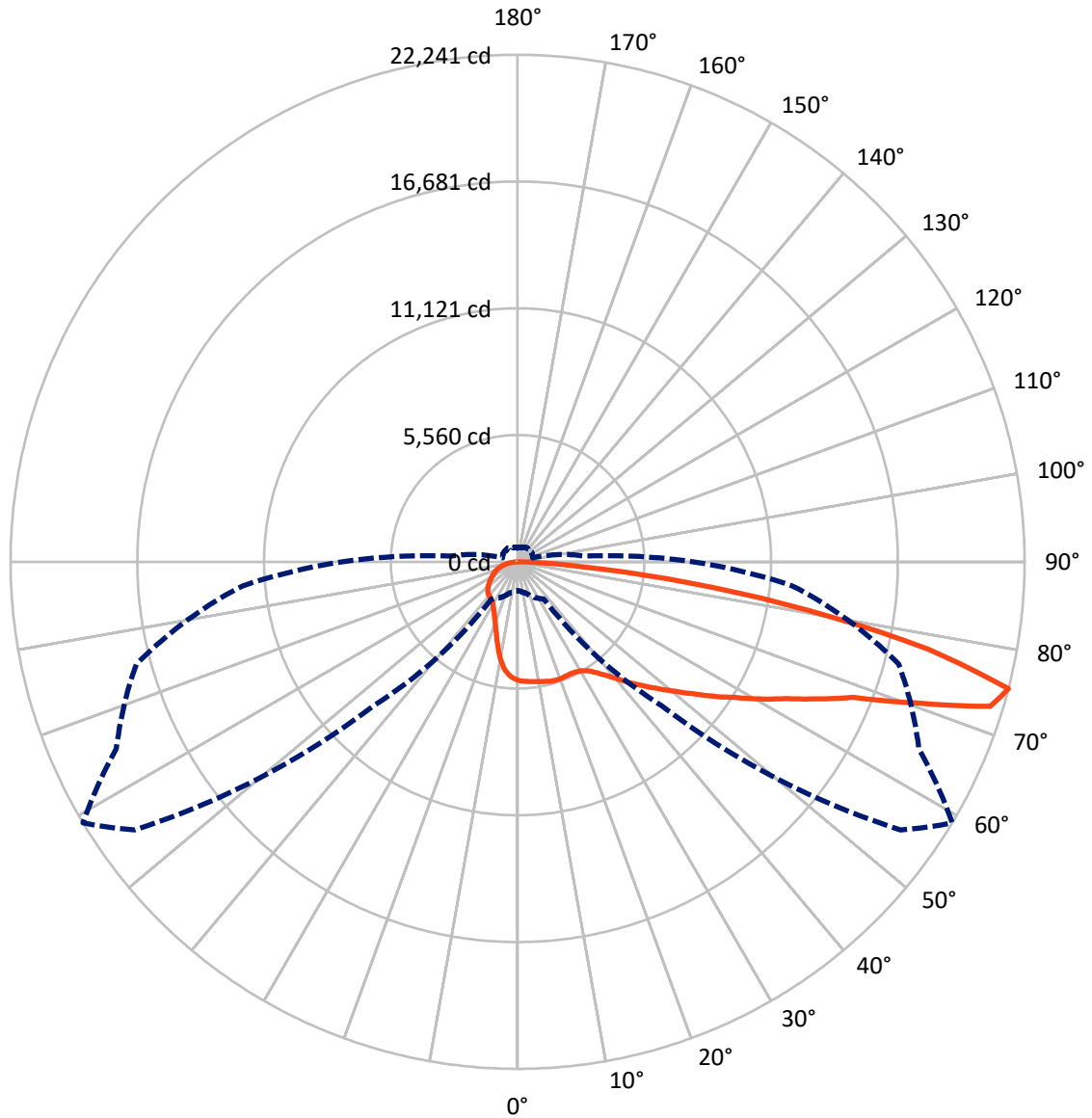
✕ Max cd
 - - - 1/2 Max cd



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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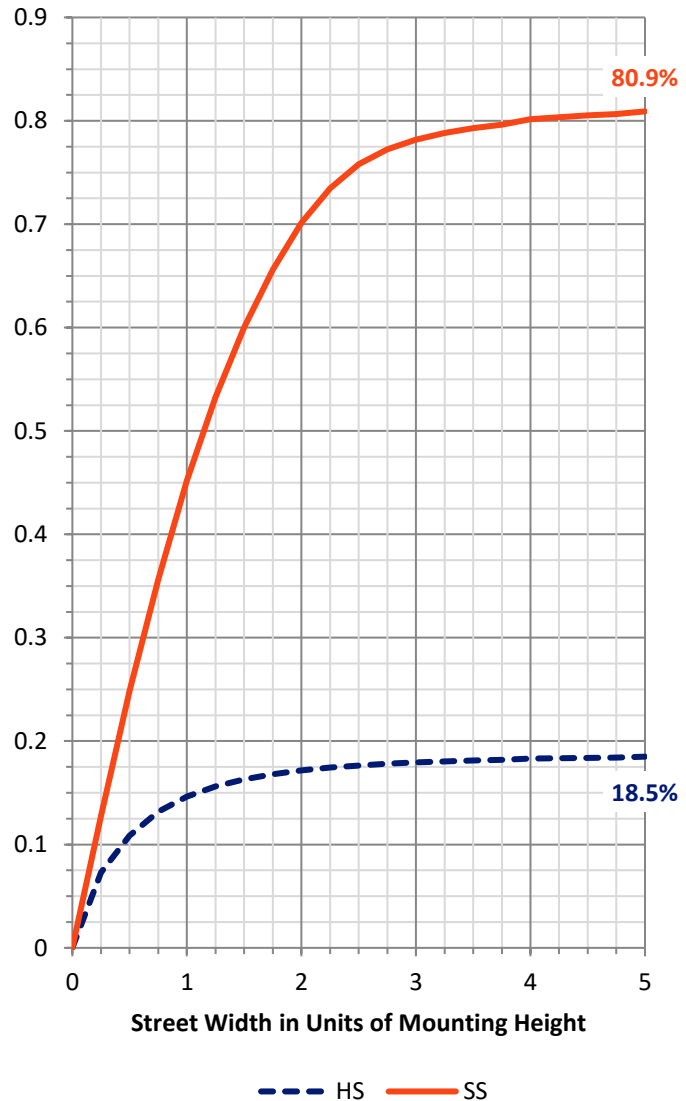
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5320.8	0.0	5320.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23048.1	0.0	23048.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	28368.9	0.0	28368.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.9	1.6
10°-20°	1193.4	4.2
20°-30°	1812.7	6.4
30°-40°	2694.5	9.5
40°-50°	4007.3	14.1
50°-60°	5439.4	19.2
60°-70°	6640.6	23.4
70°-80°	5211.4	18.4
80°-90°	902.8	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°	28368.9	100.0
0°-180°	28368.9	100.0

Coefficient of Utilization



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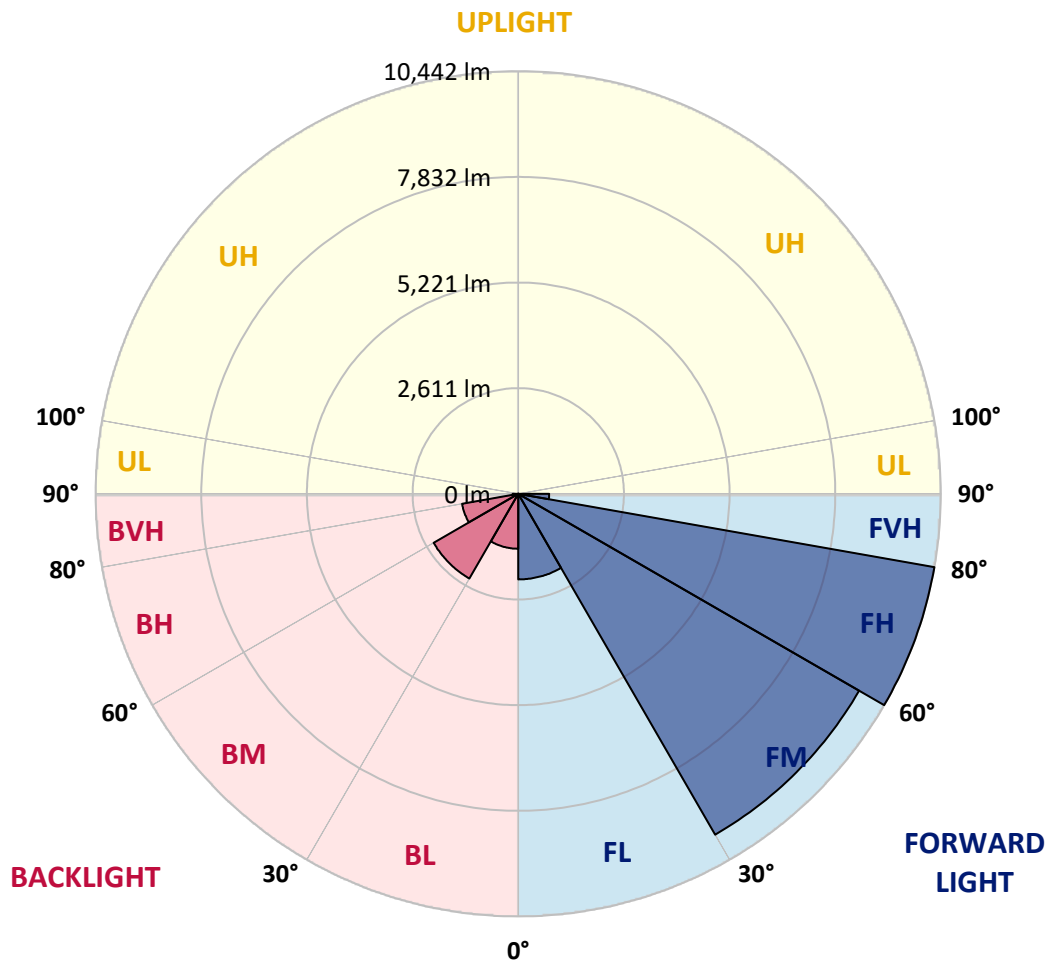
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.2	7.5			
FM (30°-60°)	9726.0	34.3			
FH (60°-80°)	10442.3	36.8			G4/12000
FVH (80°-90°)	764.6	2.7			G5
BL (0°-30°)	1357.8	4.8	B3/2500		
BM (30°-60°)	2415.1	8.5	B2/2500		
BH (60°-80°)	1409.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	138.2	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°	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1
2.5°	5251.3	5233.0	5251.3	5243.7	5240.6	5234.6	5236.0	5246.8	5240.6	5248.3	5222.3
5°	5216.2	5205.6	5223.8	5219.3	5239.1	5242.2	5262.0	5274.2	5281.8	5283.4	5263.5
7.5°	5158.2	5147.5	5173.5	5194.8	5237.5	5249.7	5290.9	5310.8	5321.5	5339.8	5310.8
10°	4946.1	4941.5	5005.6	5086.5	5187.2	5249.7	5312.4	5345.9	5362.7	5411.6	5378.0
12.5°	4570.7	4576.7	4660.7	4816.4	5017.8	5219.3	5336.8	5385.7	5411.6	5472.6	5457.3
15°	4212.0	4210.5	4302.0	4468.4	4750.8	5084.9	5349.0	5432.9	5477.2	5567.2	5555.0
17.5°	4004.5	3998.4	4062.5	4189.2	4451.7	4878.9	5318.4	5458.8	5553.4	5666.4	5655.7
20°	3966.3	3954.1	3987.7	4050.3	4236.4	4653.1	5239.1	5458.8	5614.5	5761.0	5755.0
22.5°	4105.2	4085.3	4071.6	4064.0	4146.4	4466.8	5149.1	5440.6	5704.5	5896.8	5886.2
25°	4384.4	4354.0	4283.8	4215.1	4190.7	4383.0	5069.8	5436.0	5838.8	6080.0	6040.3
27.5°	4836.3	4798.0	4656.2	4491.3	4343.2	4425.6	5034.6	5463.5	5986.9	6273.8	6194.5
30°	5396.3	5355.1	5176.6	4923.2	4657.7	4584.4	5078.9	5544.3	6176.1	6531.7	6376.0
32.5°	5898.4	5852.5	5700.0	5442.0	5083.5	4859.1	5219.3	5698.5	6473.7	6890.4	6649.2
35°	6344.0	6290.6	6153.3	5915.2	5605.3	5245.2	5472.6	5971.6	6896.4	7473.3	7020.0
37.5°	6780.5	6717.8	6568.3	6316.6	6099.8	5759.5	5822.1	6322.6	7458.0	8181.4	7511.5
40°	7268.8	7178.8	6997.2	6748.4	6537.9	6362.3	6281.4	6753.0	8028.8	8971.9	8125.0
42.5°	7741.9	7656.4	7439.8	7227.6	6963.6	6913.2	6814.0	7256.6	8652.9	9840.3	8747.6
45°	8251.7	8149.4	7886.9	7618.3	7452.0	7279.4	7329.9	7760.2	9265.0	10725.4	9400.8
47.5°	8729.3	8614.8	8305.1	8006.0	7914.3	7587.8	7802.9	8314.2	9901.3	11622.8	10047.9
50°	8987.2	8874.2	8616.4	8346.3	8274.5	7967.7	8315.7	8923.1	10568.3	12517.1	10668.9
52.5°	9202.3	9080.3	8743.0	8593.5	8572.1	8381.3	8947.5	9619.0	11235.1	13307.6	11268.7
55°	9431.3	9295.5	8865.1	8730.8	8828.5	8845.2	9696.8	10408.0	11940.2	14078.3	11834.9
57.5°	9695.3	9522.9	8982.6	8846.8	9078.7	9388.6	10557.6	11226.0	12633.0	14792.5	12338.5
60°	9944.0	9770.1	9208.5	9031.5	9348.9	10018.9	11545.0	12216.5	13417.5	15428.9	12814.7
62.5°	9992.9	9849.4	9388.6	9387.1	9715.2	10754.4	12713.9	13216.0	14102.7	16057.6	13242.0
65°	9147.4	9057.4	8784.2	9373.3	10240.2	11813.5	14015.7	14494.9	14974.1	16607.0	13617.4
67.5°	6962.1	6974.3	6954.4	8091.4	9815.9	13335.0	15900.4	15863.8	16050.0	17223.6	14049.3
70°	3183.4	3255.2	3722.2	5585.5	7864.0	13510.5	19016.7	18542.1	17400.6	18021.8	14423.2
72.5°	1720.0	1774.9	1965.6	2705.8	4727.8	12012.0	21345.5	21682.8	19196.8	18558.9	14012.7
75°	1262.1	1292.6	1425.4	1720.0	1985.4	8927.6	20510.8	22241.4	19421.2	17306.0	12100.4
77.5°	944.6	958.4	1066.7	1362.8	1016.4	4706.5	16388.8	18420.1	16625.3	14218.7	8938.4
80°	685.2	700.5	781.4	1022.4	712.7	1721.5	11253.5	12929.1	11386.2	9063.5	4454.6
82.5°	473.1	479.2	514.3	695.9	497.5	668.4	6385.2	7581.6	6356.2	3180.4	1202.5
85°	285.4	293.0	308.3	405.9	282.3	317.4	2756.1	2850.7	1900.0	760.0	373.9
87.5°	117.5	125.2	137.4	171.0	111.4	88.6	454.8	570.7	355.6	222.8	116.0
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°	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1
2.5°	5214.7	5204.0	5175.0	5135.4	5098.7	5052.9	5033.1	5016.2	5001.1	4972.1	4958.3
5°	5246.8	5217.8	5139.9	5039.2	4924.7	4799.6	4677.5	4593.5	4521.8	4468.4	4424.2
7.5°	5295.6	5240.6	5098.7	4892.6	4630.2	4361.6	4119.0	3946.5	3816.8	3769.4	3687.0
10°	5345.9	5280.3	5033.1	4669.9	4216.6	3803.1	3481.0	3304.0	3200.3	3166.6	3114.8
12.5°	5405.4	5309.3	4930.9	4360.0	3754.2	3300.9	3020.2	2916.3	2862.9	2844.7	2849.2
15°	5492.5	5333.7	4776.7	3972.4	3313.2	2934.7	2753.0	2681.4	2653.9	2652.4	2658.4
17.5°	5558.1	5338.3	4537.1	3557.4	2974.3	2713.4	2563.8	2536.4	2554.7	2582.2	2592.8
20°	5631.3	5297.1	4222.7	3178.8	2736.3	2519.6	2457.0	2475.4	2519.6	2559.2	2573.0
22.5°	5683.2	5222.3	3842.7	2884.4	2530.3	2408.1	2405.2	2443.3	2467.7	2487.6	2498.2
25°	5728.9	5095.7	3439.8	2637.1	2360.9	2341.0	2374.6	2362.4	2345.6	2362.4	2373.1
27.5°	5762.5	4895.7	3079.7	2420.4	2241.9	2295.3	2275.4	2247.9	2246.4	2255.6	2270.9
30°	5751.9	4628.7	2783.6	2214.4	2157.9	2209.8	2162.4	2157.9	2153.3	2157.9	2174.7
32.5°	5751.9	4325.0	2556.2	2072.4	2104.5	2084.6	2080.0	2069.4	2051.1	2049.6	2069.4
35°	5783.9	4021.3	2360.9	1996.2	2060.2	2012.9	2016.0	1990.0	1951.9	1933.6	1951.9
37.5°	5849.6	3777.1	2167.1	1959.5	1982.5	1980.9	1968.7	1924.4	1857.3	1799.3	1819.1
40°	6008.2	3705.4	2034.3	1942.7	1945.8	1964.1	1932.0	1846.5	1694.0	1599.3	1611.6
42.5°	6257.0	3825.9	2005.3	1901.5	1921.4	1939.7	1877.1	1678.7	1570.4	1513.9	1513.9
45°	6572.9	4036.6	2067.8	1842.0	1863.3	1895.4	1709.2	1614.6	1565.8	1567.3	1574.9
47.5°	6972.8	4257.8	2183.9	1790.2	1779.4	1797.7	1597.9	1539.9	1472.7	1489.4	1532.2
50°	7435.1	4482.1	2293.7	1720.0	1686.3	1626.8	1526.1	1471.2	1385.7	1346.0	1356.7
52.5°	7935.8	4698.9	2338.0	1634.5	1585.6	1516.9	1477.2	1410.1	1306.4	1240.8	1239.2
55°	8410.3	4895.7	2289.1	1532.2	1484.9	1431.5	1425.4	1384.2	1272.7	1181.2	1181.2
57.5°	8859.0	5060.5	2167.1	1428.4	1382.6	1350.6	1391.8	1372.0	1231.5	1114.1	1107.9
60°	9239.0	5173.5	1990.0	1323.2	1291.1	1274.3	1336.9	1330.8	1173.5	1042.3	1037.7
62.5°	9541.2	5217.8	1794.7	1222.4	1214.7	1184.3	1260.5	1260.5	1100.3	972.1	967.5
65°	9777.7	5175.0	1596.3	1123.2	1138.5	1092.6	1167.5	1158.4	1022.4	909.6	903.4
67.5°	9986.8	5034.6	1376.6	1025.5	1060.7	1002.7	1069.8	1048.5	937.1	847.0	840.9
70°	10079.8	4708.0	1126.3	927.8	970.6	914.1	972.1	932.4	840.9	779.8	767.6
72.5°	9332.1	3912.9	886.6	825.6	862.2	816.4	866.8	821.0	737.1	709.6	686.7
75°	7720.5	2936.2	682.1	714.2	741.7	706.6	740.2	706.6	630.3	650.2	593.7
77.5°	5606.9	1982.5	521.9	596.8	609.0	590.6	619.6	581.5	512.8	508.2	485.3
80°	2788.2	1161.3	409.0	471.6	467.0	454.8	488.3	470.1	412.0	436.4	431.9
82.5°	807.3	497.5	297.6	331.2	322.1	325.0	349.5	358.6	537.2	532.6	544.8
85°	253.4	195.4	178.6	184.7	175.5	180.1	206.0	409.0	378.4	221.3	239.6
87.5°	65.6	67.1	44.3	47.4	48.8	58.0	65.6	248.8	119.0	77.8	82.4
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)