

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: P964590

Luminaire Tested: **NAV-SB3C-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964590
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-SB3C-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23814.9 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

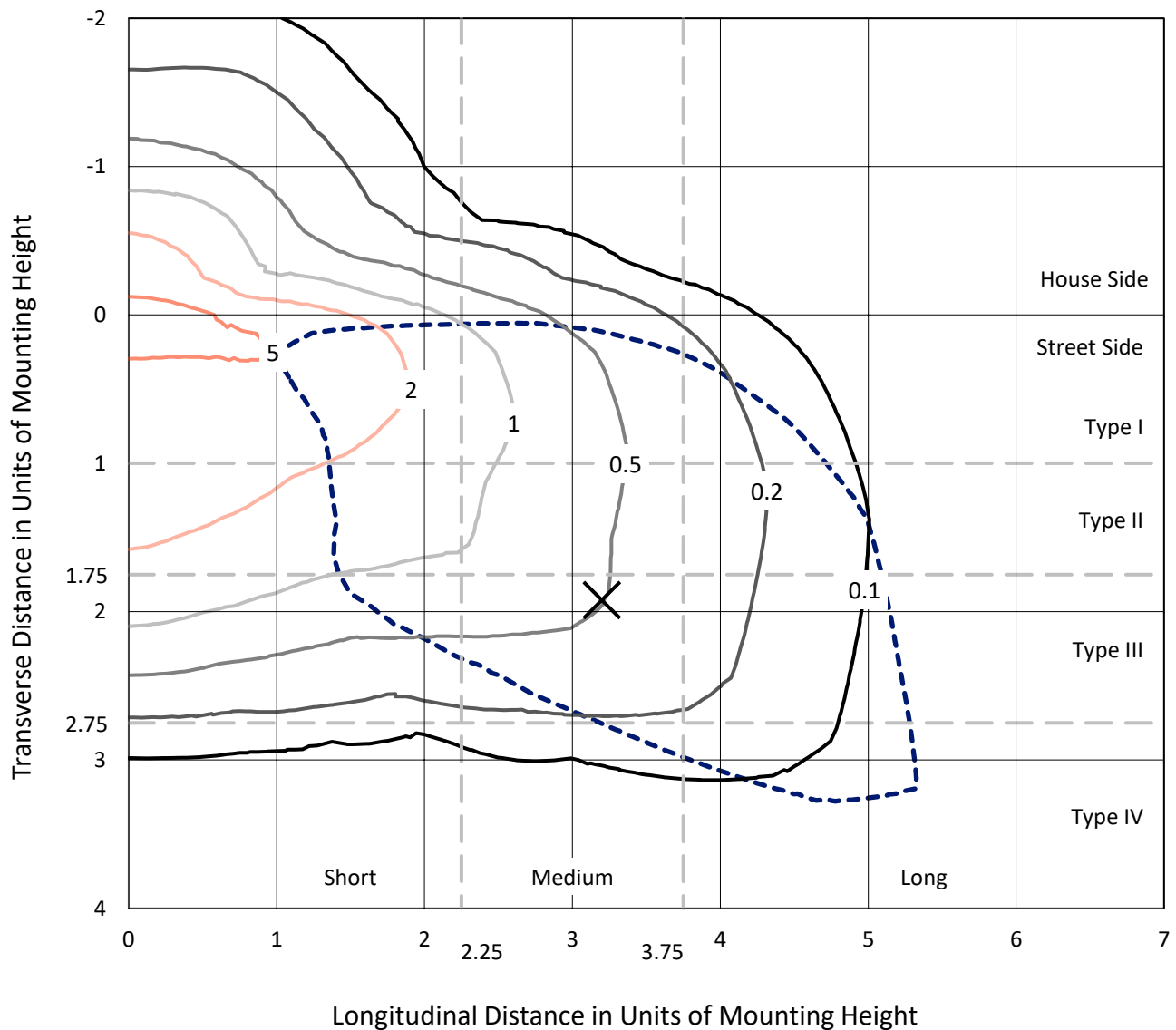
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

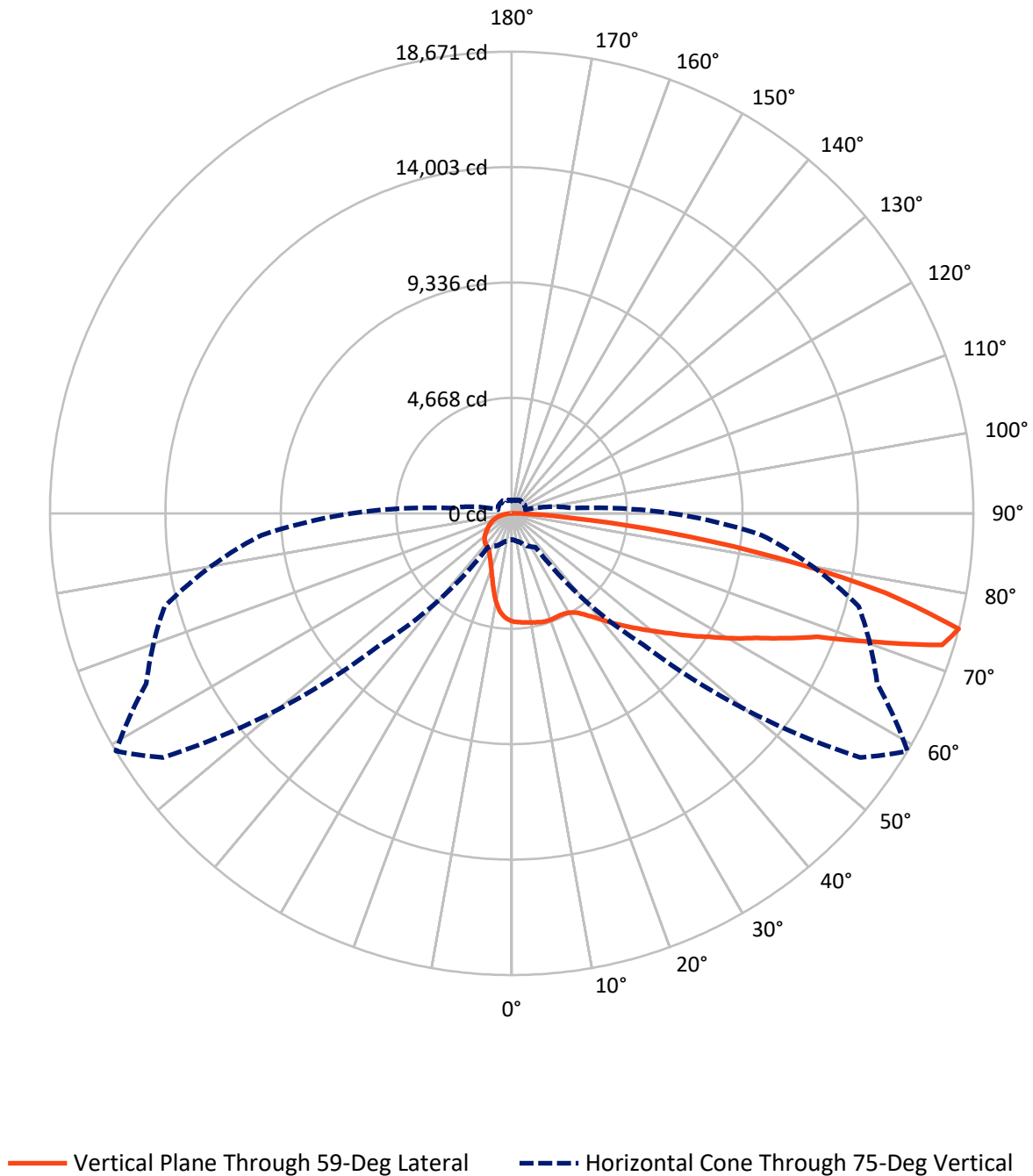
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	4466.6	0.0	4466.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19348.2	0.0	19348.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	23814.9	0.0	23814.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.9	1.6
10°-20°	1001.8	4.2
20°-30°	1521.7	6.4
30°-40°	2262.0	9.5
40°-50°	3364.0	14.1
50°-60°	4566.2	19.2
60°-70°	5574.6	23.4
70°-80°	4374.8	18.4
80°-90°	757.8	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°	23814.9	100.0
0°-180°	23814.9	100.0

Coefficient of Utilization



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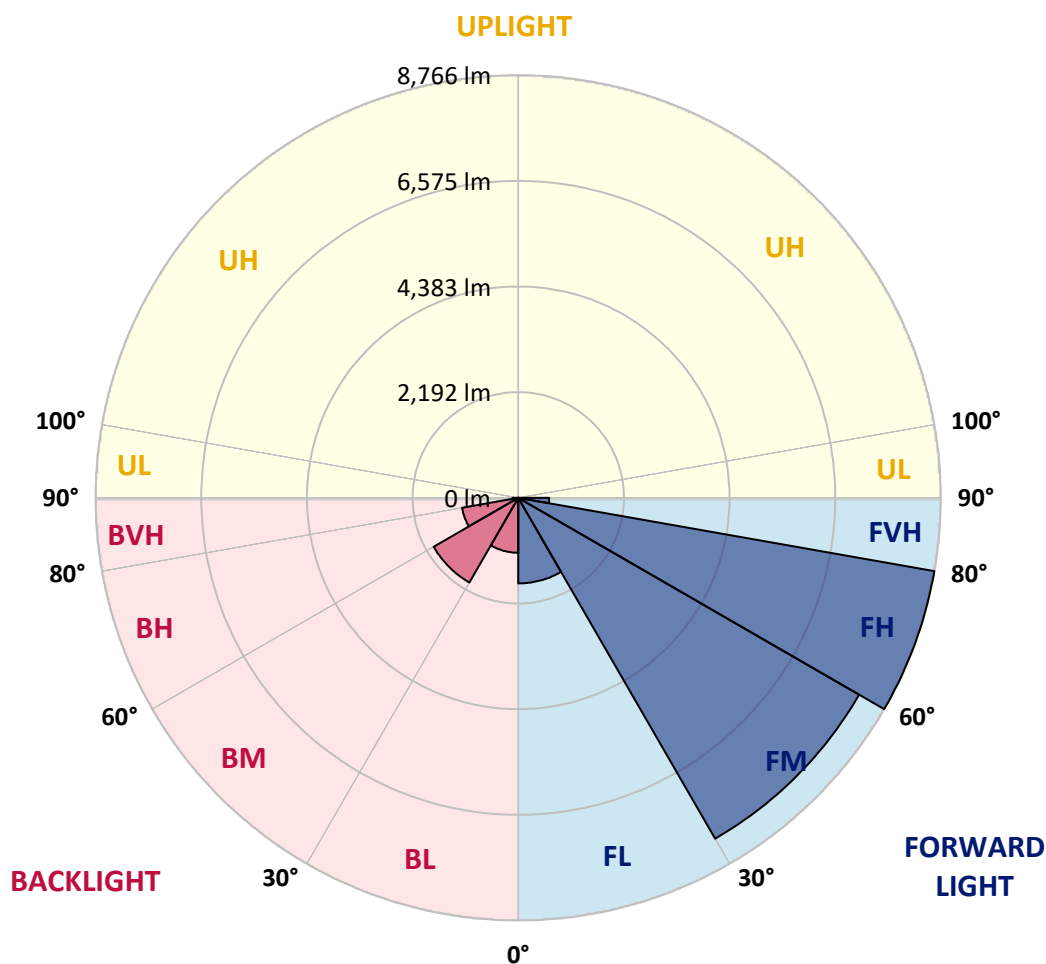
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1775.7	7.5			
FM	(30°-60°)	8164.7	34.3			
FH	(60°-80°)	8766.0	36.8			G4/12000
FVH	(80°-90°)	641.8	2.7			G4/750
BL	(0°-30°)	1139.8	4.8	B3/2500		
BM	(30°-60°)	2027.4	8.5	B2/2500		
BH	(60°-80°)	1183.4	5.0	B3/2500		G3/2500
BVH	(80°-90°)	116.0	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°	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1
2.5°	4408.3	4392.9	4408.3	4401.9	4399.3	4394.2	4395.5	4404.4	4399.3	4405.8	4383.9
5°	4378.8	4369.9	4385.3	4381.4	4398.1	4400.6	4417.2	4427.5	4433.9	4435.2	4418.6
7.5°	4330.2	4321.2	4343.0	4360.9	4396.7	4407.0	4441.6	4458.2	4467.3	4482.6	4458.2
10°	4152.1	4148.3	4202.1	4269.9	4354.5	4407.0	4459.6	4487.8	4501.8	4542.8	4514.6
12.5°	3837.0	3842.1	3912.5	4043.2	4212.3	4381.4	4480.1	4521.1	4542.8	4594.0	4581.2
15°	3535.8	3534.6	3611.5	3751.1	3988.1	4268.7	4490.3	4560.7	4597.9	4673.5	4663.2
17.5°	3361.7	3356.6	3410.3	3516.7	3737.0	4095.7	4464.7	4582.6	4662.0	4756.8	4747.8
20°	3329.6	3319.4	3347.5	3400.0	3556.3	3906.1	4398.1	4582.6	4713.3	4836.3	4831.1
22.5°	3446.2	3429.5	3418.0	3411.6	3480.8	3749.9	4322.5	4567.2	4788.8	4950.2	4941.2
25°	3680.7	3655.0	3596.1	3538.4	3517.9	3679.3	4255.9	4563.3	4901.5	5104.0	5070.7
27.5°	4059.8	4027.8	3908.6	3770.4	3646.0	3715.2	4226.4	4586.4	5025.8	5266.7	5200.0
30°	4530.0	4495.4	4345.6	4132.9	3910.0	3848.5	4263.6	4654.3	5184.7	5483.1	5352.4
32.5°	4951.5	4913.0	4785.0	4568.4	4267.4	4079.1	4381.4	4783.7	5434.4	5784.3	5581.8
35°	5325.6	5280.8	5165.5	4965.6	4705.6	4403.2	4594.0	5013.0	5789.4	6273.6	5893.1
37.5°	5692.0	5639.4	5513.9	5302.5	5120.6	4834.9	4887.4	5307.7	6260.8	6868.0	6305.6
40°	6101.9	6026.4	5873.9	5665.1	5488.3	5341.0	5273.1	5669.0	6740.0	7531.7	6820.7
42.5°	6499.1	6427.4	6245.4	6067.4	5845.7	5803.4	5720.2	6091.7	7264.0	8260.6	7343.3
45°	6927.0	6841.2	6620.8	6395.3	6255.7	6110.9	6153.2	6514.5	7777.6	9003.7	7891.7
47.5°	7327.9	7231.9	6971.8	6720.7	6643.8	6369.7	6550.4	6979.5	8311.8	9757.0	8434.8
50°	7544.5	7449.7	7233.2	7006.4	6946.2	6688.7	6980.8	7490.7	8871.7	10507.7	8956.2
52.5°	7725.1	7622.6	7339.5	7214.0	7196.0	7035.9	7511.2	8074.8	9431.5	11171.3	9459.7
55°	7917.3	7803.2	7442.0	7329.3	7411.3	7425.3	8140.2	8737.2	10023.5	11818.2	9935.0
57.5°	8138.9	7994.2	7540.6	7426.6	7621.4	7881.4	8862.8	9423.8	10605.1	12417.9	10357.8
60°	8347.7	8201.7	7730.2	7581.6	7848.1	8410.5	9691.6	10255.3	11263.5	12952.1	10757.5
62.5°	8388.7	8268.3	7881.4	7880.1	8155.6	9028.0	10672.9	11094.5	11838.7	13479.9	11116.2
65°	7679.0	7603.4	7374.1	7868.6	8596.3	9917.1	11765.8	12168.0	12570.3	13941.1	11431.4
67.5°	5844.4	5854.7	5838.0	6792.5	8240.1	11194.3	13348.0	13317.2	13473.5	14458.6	11794.0
70°	2672.4	2732.6	3124.6	4688.9	6601.6	11341.7	15964.0	15565.5	14607.3	15128.7	12107.8
72.5°	1443.8	1489.9	1650.0	2271.4	3968.9	10083.6	17918.9	18202.1	16115.2	15579.6	11763.2
75°	1059.4	1085.1	1196.6	1443.8	1666.8	7494.5	17218.2	18671.0	16303.4	14527.8	10158.0
77.5°	793.0	804.5	895.5	1144.0	853.2	3951.0	13757.9	15463.0	13956.5	11936.1	7503.5
80°	575.2	588.0	655.9	858.3	598.3	1445.1	9446.9	10853.6	9558.4	7608.6	3739.6
82.5°	397.2	402.3	431.7	584.1	417.7	561.1	5360.1	6364.5	5335.8	2669.8	1009.5
85°	239.5	246.0	258.8	340.8	237.0	266.5	2313.7	2393.2	1595.0	638.0	313.9
87.5°	98.6	105.1	115.3	143.5	93.5	74.3	381.8	479.2	298.5	187.1	97.4
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°	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1	4371.1
2.5°	4377.6	4368.5	4344.3	4310.9	4280.2	4241.8	4225.2	4211.0	4198.2	4173.9	4162.3
5°	4404.4	4380.1	4314.8	4230.3	4134.1	4029.1	3926.6	3856.2	3796.0	3751.1	3714.0
7.5°	4445.4	4399.3	4280.2	4107.3	3886.9	3661.4	3457.7	3313.0	3204.0	3164.4	3095.2
10°	4487.8	4432.6	4225.2	3920.2	3539.7	3192.6	2922.2	2773.6	2686.5	2658.3	2614.8
12.5°	4537.7	4457.0	4139.3	3660.2	3151.6	2771.1	2535.3	2448.2	2403.4	2388.0	2391.8
15°	4610.8	4477.5	4009.9	3334.7	2781.3	2463.6	2311.2	2250.9	2227.8	2226.6	2231.7
17.5°	4665.8	4481.3	3808.8	2986.2	2496.9	2277.9	2152.3	2129.2	2144.6	2167.7	2176.6
20°	4727.3	4446.8	3544.9	2668.6	2297.0	2115.1	2062.6	2078.0	2115.1	2148.4	2160.0
22.5°	4770.9	4383.9	3225.9	2421.4	2124.1	2021.6	2019.0	2051.0	2071.5	2088.2	2097.1
25°	4809.3	4277.6	2887.6	2213.8	1981.8	1965.2	1993.4	1983.2	1969.0	1983.2	1992.1
27.5°	4837.5	4109.8	2585.3	2031.9	1882.0	1926.8	1910.2	1887.1	1885.8	1893.5	1906.3
30°	4828.6	3885.6	2336.8	1858.9	1811.5	1855.0	1815.4	1811.5	1807.7	1811.5	1825.6
32.5°	4828.6	3630.7	2145.8	1739.7	1766.7	1750.0	1746.2	1737.2	1721.8	1720.6	1737.2
35°	4855.4	3375.7	1981.8	1675.7	1729.5	1689.8	1692.4	1670.5	1638.6	1623.2	1638.6
37.5°	4910.5	3170.7	1819.2	1644.9	1664.2	1662.9	1652.6	1615.5	1559.1	1510.4	1527.0
40°	5043.7	3110.6	1707.8	1630.9	1633.4	1648.8	1621.9	1550.1	1422.1	1342.6	1352.9
42.5°	5252.6	3211.7	1683.4	1596.2	1612.9	1628.3	1575.7	1409.3	1318.3	1270.9	1270.9
45°	5517.8	3388.5	1735.9	1546.3	1564.3	1591.1	1434.9	1355.5	1314.5	1315.7	1322.1
47.5°	5853.4	3574.3	1833.3	1502.8	1493.7	1509.1	1341.3	1292.6	1236.3	1250.4	1286.3
50°	6241.6	3762.7	1925.6	1443.8	1415.6	1365.7	1281.1	1235.0	1163.3	1130.0	1138.9
52.5°	6661.8	3944.5	1962.7	1372.1	1331.1	1273.5	1240.1	1183.8	1096.6	1041.5	1040.3
55°	7060.2	4109.8	1921.7	1286.3	1246.5	1201.7	1196.6	1161.9	1068.5	991.6	991.6
57.5°	7436.9	4248.2	1819.2	1199.1	1160.7	1133.8	1168.4	1151.7	1033.8	935.2	930.1
60°	7755.9	4343.0	1670.5	1110.7	1083.8	1069.7	1122.3	1117.1	985.1	875.0	871.1
62.5°	8009.6	4380.1	1506.5	1026.1	1019.8	994.1	1058.2	1058.2	923.7	816.1	812.2
65°	8208.1	4344.3	1340.1	942.9	955.7	917.3	980.0	972.3	858.3	763.5	758.4
67.5°	8383.6	4226.4	1155.6	860.9	890.4	841.7	898.1	880.2	786.6	711.0	705.9
70°	8461.8	3952.2	945.5	778.9	814.8	767.4	816.1	782.8	705.9	654.7	644.4
72.5°	7834.0	3284.8	744.4	693.1	723.9	685.4	727.6	689.2	618.8	595.7	576.5
75°	6481.2	2464.8	572.7	599.5	622.6	593.2	621.4	593.2	529.1	545.7	498.4
77.5°	4706.8	1664.2	438.2	500.9	511.2	495.8	520.1	488.1	430.5	426.6	407.4
80°	2340.6	974.9	343.4	395.9	392.1	381.8	410.0	394.6	345.9	366.4	362.5
82.5°	677.7	417.7	249.8	278.0	270.3	272.9	293.4	301.0	451.0	447.1	457.4
85°	212.7	164.0	149.9	155.0	147.3	151.2	172.9	343.4	317.8	185.7	201.1
87.5°	55.0	56.4	37.1	39.7	41.0	48.7	55.0	208.8	99.9	65.3	69.2
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)