

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: P970916

Luminaire Tested: **NAV-SB6C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48817.7 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

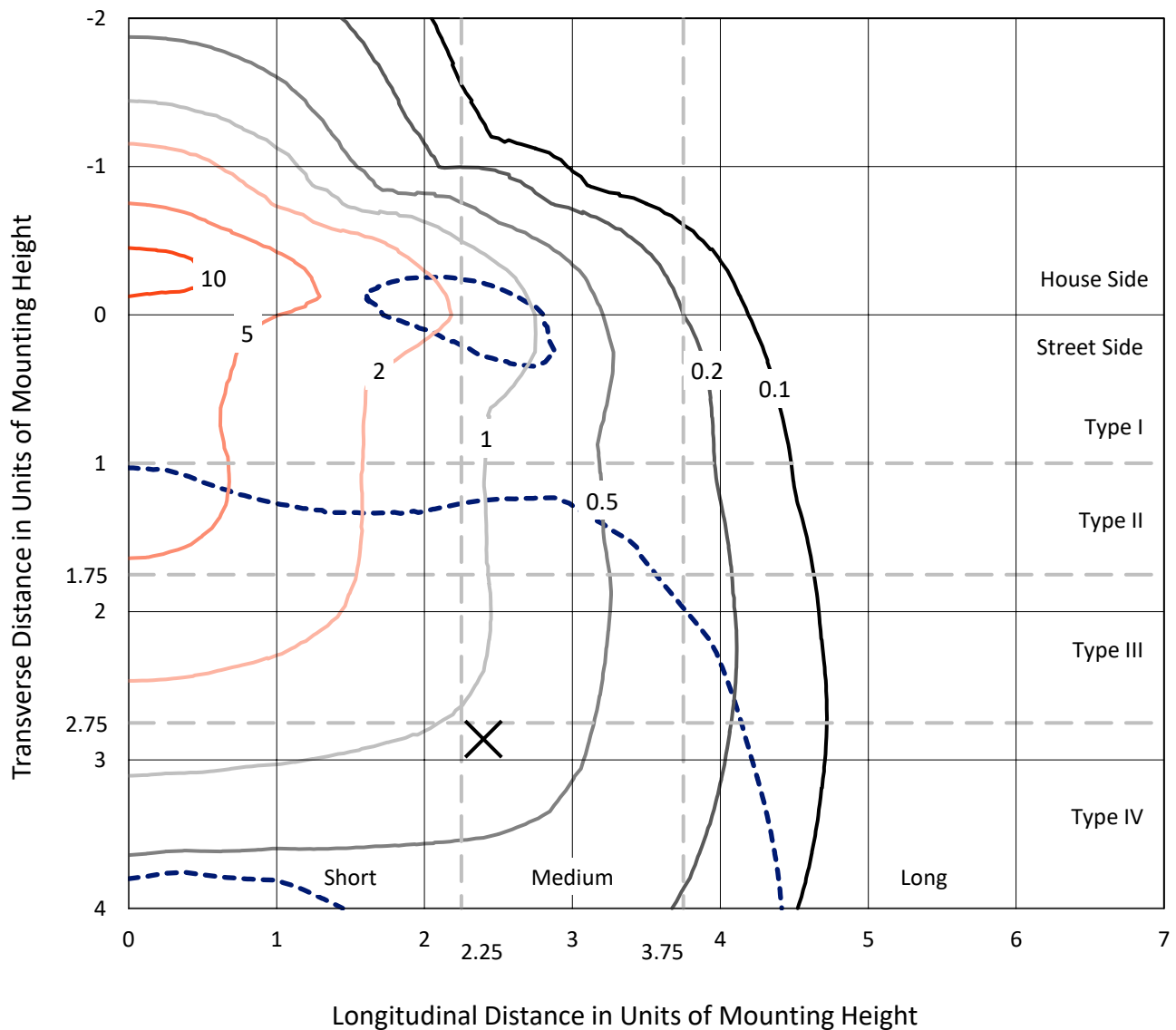
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

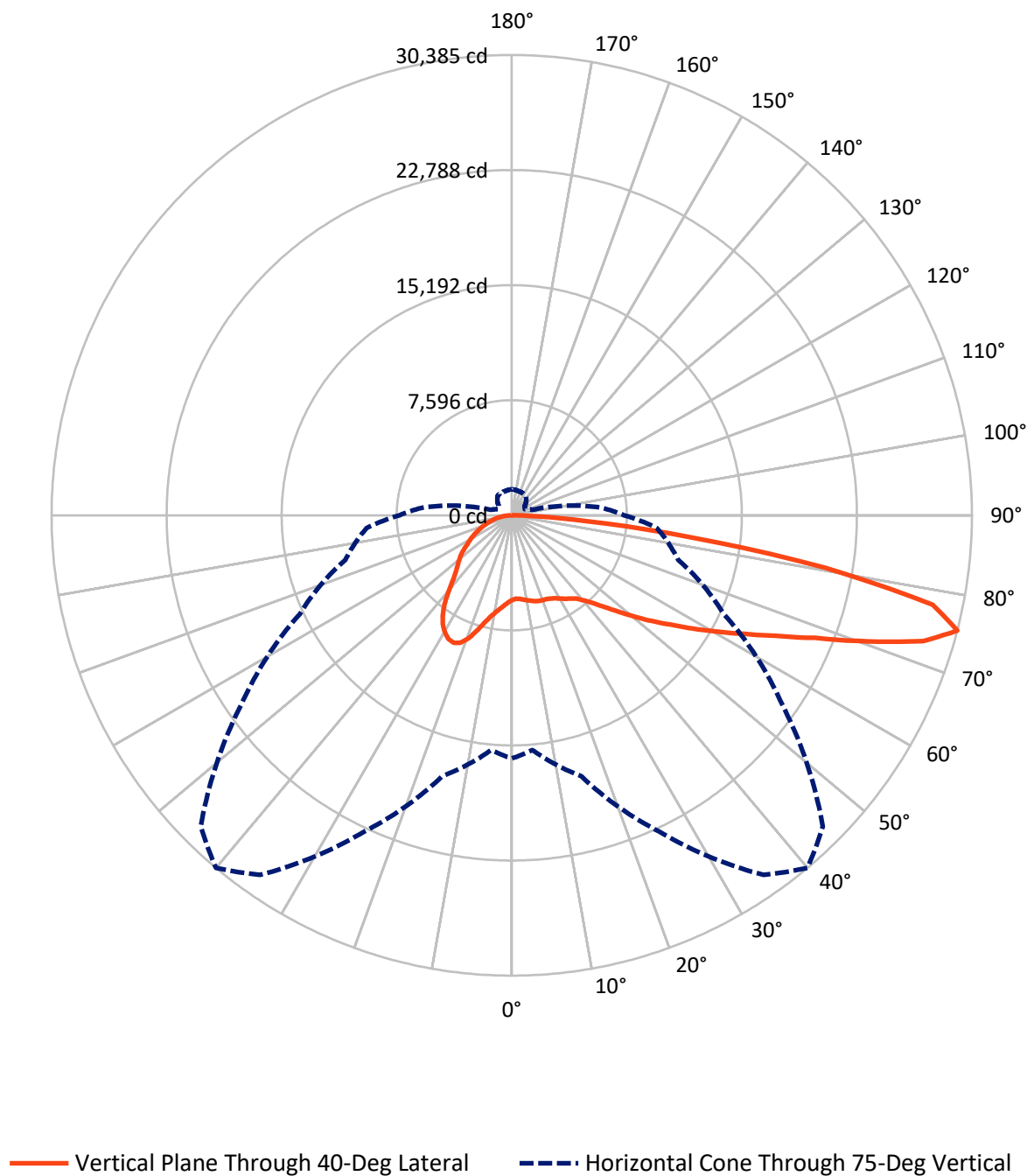
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	15125.3	0.0	15125.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	33692.3	0.0	33692.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	48817.7	0.0	48817.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.2	1.1
10°-20°	1870.9	3.8
20°-30°	3416.0	7.0
30°-40°	4844.9	9.9
40°-50°	6542.1	13.4
50°-60°	8800.8	18.0
60°-70°	11170.3	22.9
70°-80°	10137.7	20.8
80°-90°	1477.8	3.0
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°	48817.7	100.0
0°-180°	48817.7	100.0

Coefficient of Utilization



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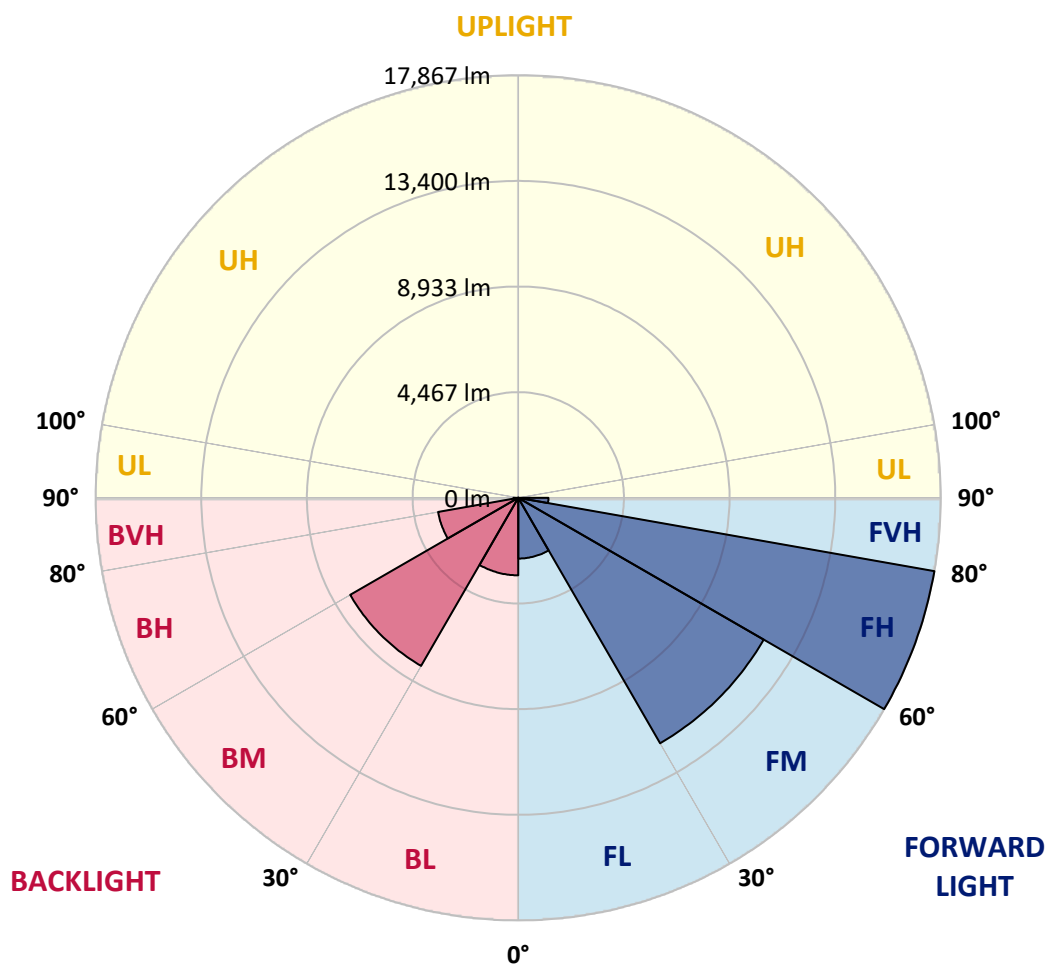
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2567.9	5.3			
FM	(30°-60°)	11983.6	24.5			
FH	(60°-80°)	17866.5	36.6			G5
FVH	(80°-90°)	1274.3	2.6			G5
BL	(0°-30°)	3276.3	6.7	B4/5000		
BM	(30°-60°)	8204.1	16.8	B4/8500		
BH	(60°-80°)	3441.5	7.0	B4/5000		G4/5000
BVH	(80°-90°)	203.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4
2.5°	5497.0	5528.0	5520.2	5509.9	5509.9	5512.4	5509.9	5528.0	5546.1	5564.2	5592.7
5°	5553.9	5584.9	5569.4	5556.5	5546.1	5543.5	5535.7	5533.2	5543.5	5566.9	5605.6
7.5°	5665.2	5696.3	5673.0	5649.7	5629.0	5618.6	5608.3	5592.7	5584.9	5597.9	5652.3
10°	5789.5	5820.6	5792.1	5750.7	5717.0	5704.0	5693.7	5678.2	5667.8	5675.5	5735.1
12.5°	5913.7	5944.9	5906.0	5849.1	5805.1	5797.3	5784.3	5779.2	5776.6	5773.9	5833.5
15°	6030.3	6056.2	6007.0	5939.7	5893.0	5880.1	5867.2	5875.0	5887.9	5903.4	5970.7
17.5°	6120.9	6146.8	6074.4	5986.3	5942.2	5937.1	5929.3	5955.2	5991.4	6030.3	6113.2
20°	6203.8	6229.6	6136.5	6017.4	5965.6	5965.6	5968.2	6022.5	6074.4	6131.2	6245.2
22.5°	6320.3	6341.0	6227.1	6064.0	5988.9	5994.1	6014.8	6069.1	6133.9	6211.5	6369.5
25°	6493.8	6509.3	6369.5	6151.9	6066.6	6082.0	6100.2	6126.1	6188.2	6278.8	6491.2
27.5°	6773.4	6786.3	6602.5	6307.3	6177.9	6203.8	6229.6	6211.5	6240.0	6317.7	6589.6
30°	7167.0	7174.7	6941.7	6550.8	6366.9	6379.8	6385.0	6309.9	6255.6	6317.7	6659.5
32.5°	7633.1	7630.4	7353.4	6845.9	6581.8	6568.8	6524.8	6377.2	6250.3	6304.8	6721.6
35°	8355.4	8326.9	7969.6	7260.2	6825.2	6744.9	6641.4	6452.4	6276.3	6291.9	6776.0
37.5°	9551.7	9463.6	8969.1	7938.5	7187.7	6983.1	6830.4	6574.0	6333.3	6286.6	6840.7
40°	10900.7	10789.3	10245.6	8868.1	7731.5	7402.6	7156.7	6747.5	6426.4	6309.9	6936.5
42.5°	12500.8	12342.8	11757.7	9963.3	8420.2	7943.7	7573.5	6967.6	6563.7	6385.0	7066.0
45°	14466.0	14256.3	13427.7	11198.4	9287.5	8653.2	8158.7	7301.6	6773.4	6530.1	7260.2
47.5°	16452.0	16503.7	15325.6	12612.1	10328.4	9528.3	8891.4	7803.9	7079.0	6763.1	7573.5
50°	18562.1	18598.4	17213.1	14178.6	11509.1	10517.4	9714.7	8365.7	7503.6	7094.4	8042.2
52.5°	20208.9	20214.0	18927.2	15817.6	12739.0	11604.9	10602.9	9007.9	7995.5	7534.7	8666.2
55°	21239.4	21226.4	20128.6	17368.5	14152.7	12746.8	11586.8	9738.1	8596.3	8052.5	9450.7
57.5°	21987.7	21948.8	20957.1	18701.9	15659.6	14095.7	12700.2	10566.6	9305.7	8668.7	10483.8
60°	22272.5	22249.2	21519.1	19854.1	17244.2	15587.2	13984.4	11493.5	10110.9	9396.3	11812.0
62.5°	22381.3	22425.3	22070.5	20970.2	18940.2	17239.1	15395.5	12601.8	11017.1	10219.7	13212.8
65°	22764.4	22844.7	22772.2	22430.5	20856.2	19173.2	17267.6	13919.7	12006.2	11102.6	14675.7
67.5°	23523.1	23603.4	23634.4	24178.2	23196.9	21583.7	19603.0	15561.2	13163.6	12019.2	15776.2
70°	23505.0	23481.6	24030.6	25568.6	26127.9	24921.2	22751.5	17580.8	14543.6	12780.4	15916.0
72.5°	21394.7	21208.4	22505.5	25553.0	28567.0	28406.3	26596.5	20185.6	15734.7	12873.6	13811.0
75°	16050.6	15553.5	17844.9	23028.6	28973.4	30384.6	29040.7	21801.2	15452.5	11374.4	9611.2
77.5°	6864.0	6364.3	9064.9	17047.5	25931.1	28403.8	26798.4	19020.4	12335.1	7521.7	4720.1
80°	1796.9	1794.4	2739.4	7728.8	17635.2	20975.3	18401.6	12283.3	7047.9	2687.7	1302.4
82.5°	743.1	725.0	1007.2	3006.1	8617.0	11770.6	9606.0	5478.8	2545.2	727.5	432.4
85°	277.1	274.5	489.3	1038.3	3039.7	4854.8	3513.6	1400.8	634.4	354.8	194.2
87.5°	77.7	75.1	106.2	359.9	740.6	1123.7	600.6	230.4	178.7	139.8	57.0
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°	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4	5582.4
2.5°	5600.5	5613.4	5636.8	5654.8	5678.2	5704.0	5740.3	5763.6	5786.9	5802.4	5792.1
5°	5623.8	5652.3	5711.8	5771.4	5841.3	5906.0	5981.1	6035.5	6079.5	6092.4	6097.6
7.5°	5675.5	5722.2	5823.1	5924.2	6035.5	6141.6	6250.3	6343.6	6418.7	6447.1	6449.7
10°	5766.2	5828.4	5970.7	6113.2	6260.7	6423.9	6563.7	6698.3	6804.5	6848.5	6851.1
12.5°	5880.1	5957.8	6144.3	6341.0	6545.5	6770.8	6952.1	7117.8	7249.8	7309.4	7309.4
15°	6027.7	6128.7	6366.9	6631.0	6931.4	7244.6	7475.1	7658.9	7806.5	7879.0	7873.8
17.5°	6188.2	6322.9	6623.2	7022.0	7451.7	7863.5	8132.8	8267.3	8420.2	8490.1	8487.5
20°	6343.6	6509.3	6939.1	7519.1	8091.4	8528.9	8746.4	8782.6	8793.0	8800.8	8821.5
22.5°	6504.1	6726.8	7335.3	8145.7	8759.3	9062.3	9093.4	8938.0	8720.5	8619.5	8648.0
25°	6680.2	6975.3	7853.1	8837.0	9334.2	9370.4	9132.2	8754.1	8342.5	8153.5	8182.0
27.5°	6851.1	7262.7	8474.5	9497.2	9748.5	9430.0	8917.3	8381.3	7884.2	7684.8	7708.1
30°	7022.0	7591.6	9160.6	10074.6	9937.5	9282.4	8578.1	7980.0	7480.2	7270.5	7293.8
32.5°	7195.5	7974.8	9950.4	10491.5	9903.8	8969.1	8156.0	7529.4	7089.3	6869.2	6897.7
35°	7392.2	8446.0	10698.6	10719.3	9678.6	8508.2	7599.4	6990.9	6607.7	6431.7	6470.5
37.5°	7648.6	9044.2	11358.9	10776.3	9285.0	7832.4	6908.1	6354.0	6038.1	5957.8	6014.8
40°	7967.0	9763.9	11863.9	10685.7	8702.4	7011.6	6151.9	5709.2	5530.6	5548.7	5610.8
42.5°	8381.3	10569.2	12218.5	10452.7	7892.0	6165.0	5489.2	5292.4	5377.9	5450.3	5517.7
45°	8919.9	11405.5	12438.6	10056.6	6975.3	5447.8	5098.1	5144.8	5209.6	5217.2	5269.1
47.5°	9608.7	12252.2	12583.6	9458.4	6040.6	4942.9	4849.6	4859.9	4847.0	4792.7	4834.1
50°	10468.2	13075.6	12713.1	8666.2	5245.7	4627.0	4502.6	4466.4	4287.8	4111.7	4135.0
52.5°	11447.0	13831.7	12767.5	7682.3	4627.0	4362.8	4160.9	3933.0	3599.0	3544.7	3562.8
55°	12534.4	14530.7	12627.7	6473.1	4106.5	4023.6	3718.1	3443.7	3407.4	3360.8	3368.6
57.5°	13834.2	15284.2	12342.8	5124.1	3573.2	3627.5	3329.7	3360.8	3296.1	3223.6	3210.6
60°	15255.7	16063.5	11843.2	3894.2	3021.6	3132.9	3228.7	3226.2	3208.0	3148.5	3127.8
62.5°	16534.8	16576.2	10859.2	2982.7	2537.5	2749.8	3011.2	3008.7	2993.1	2959.5	2946.6
65°	17296.1	16498.5	9217.6	2348.4	2138.7	2433.9	2716.0	2736.9	2739.4	2736.9	2736.9
67.5°	17161.4	15589.7	6965.0	1869.4	1809.8	2112.8	2423.5	2452.0	2472.7	2477.9	2483.1
70°	15638.9	13593.4	4541.5	1491.4	1517.3	1830.5	2146.5	2174.9	2193.1	2213.8	2224.1
72.5°	12190.0	9994.4	2599.6	1206.5	1261.0	1587.2	1872.0	1905.7	1916.0	1954.9	1970.4
75°	7428.5	5877.6	1403.3	950.3	1035.7	1356.8	1600.1	1639.0	1657.1	1703.8	1708.9
77.5°	3531.7	2545.2	800.1	740.6	833.7	1108.2	1351.6	1395.6	1346.4	1372.3	1351.6
80°	1193.6	945.0	504.9	564.5	636.9	864.8	1082.3	1126.3	1022.7	1017.5	1007.2
82.5°	416.9	383.2	321.0	375.5	411.6	618.8	818.2	875.1	761.3	758.6	722.4
85°	163.1	155.4	178.7	204.6	246.0	380.6	538.5	567.0	468.6	378.0	372.9
87.5°	33.6	36.3	44.0	46.6	75.1	132.0	194.2	238.2	189.0	160.5	147.6
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)