

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: P971422

Luminaire Tested: **NAV-SB6D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64098.4 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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

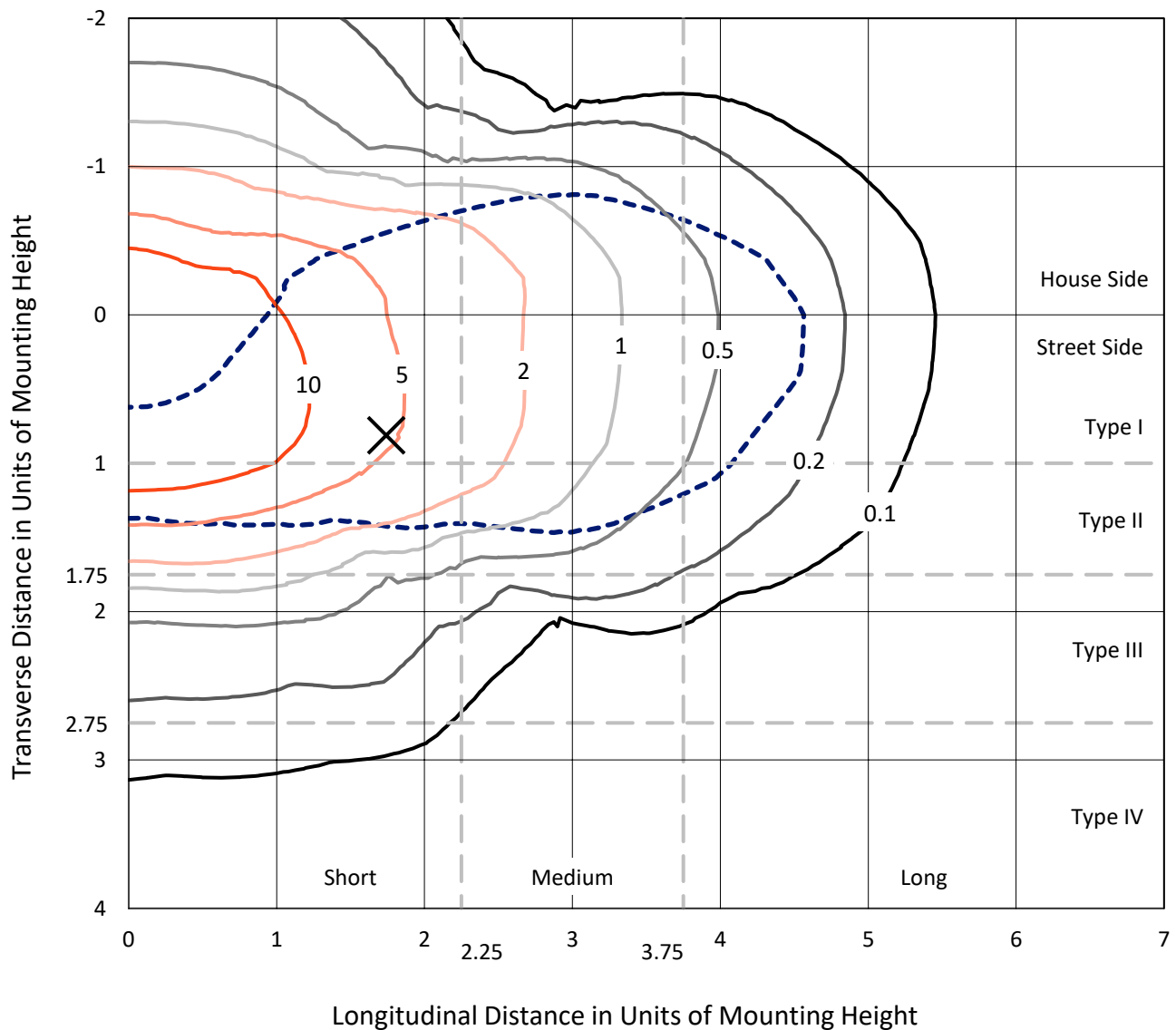


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Iso-Footcandle Lines of Horizontal Illumination

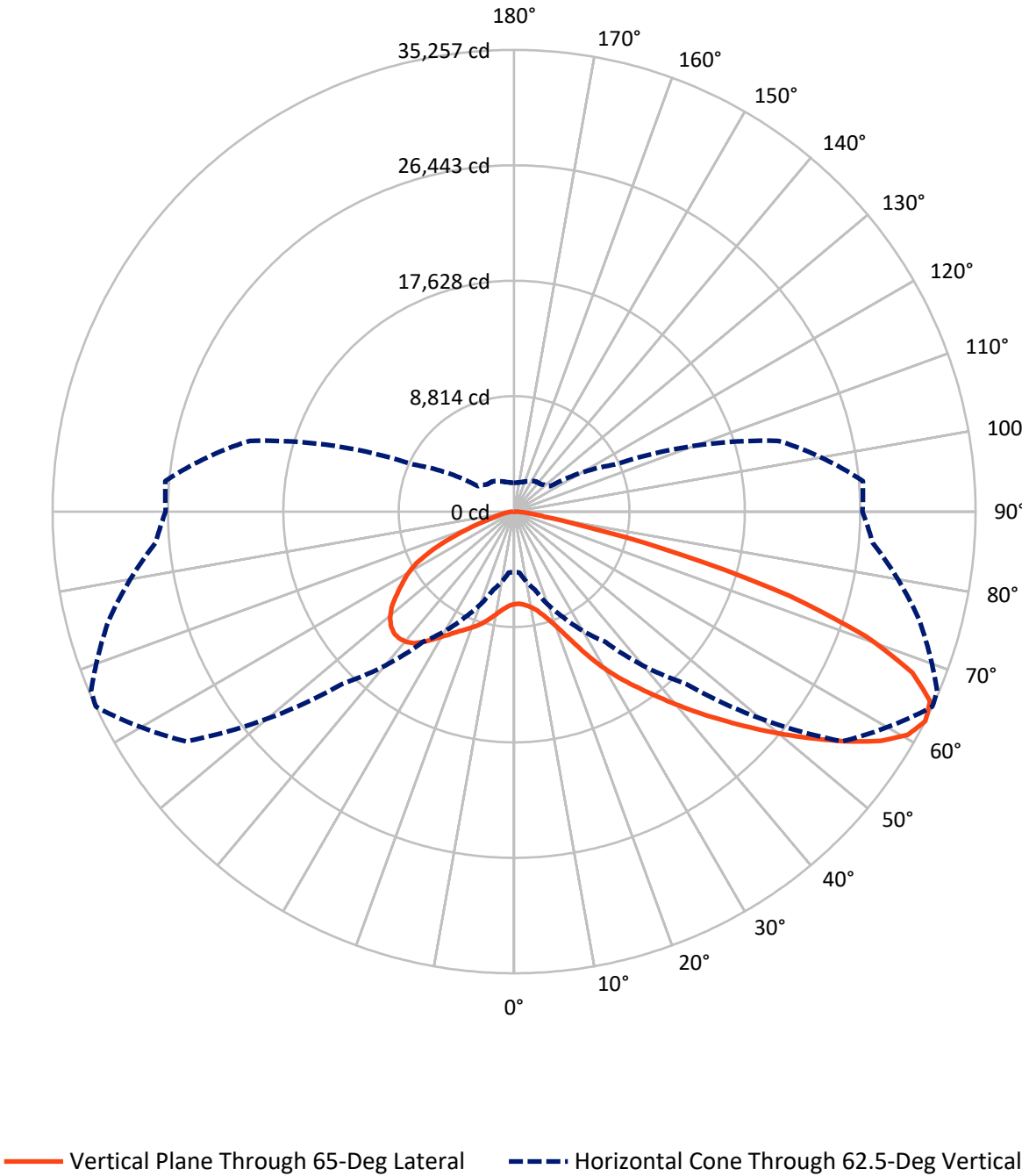
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20226.7	0.0	20226.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	43871.7	0.0	43871.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	64098.4	0.0	64098.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.2	1.1
10°-20°	2388.0	3.7
20°-30°	4842.0	7.6
30°-40°	8379.0	13.1
40°-50°	12680.0	19.8
50°-60°	14866.5	23.2
60°-70°	12463.8	19.4
70°-80°	6881.0	10.7
80°-90°	893.8	1.4
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°	64098.4	100.0
0°-180°	64098.4	100.0

Coefficient of Utilization



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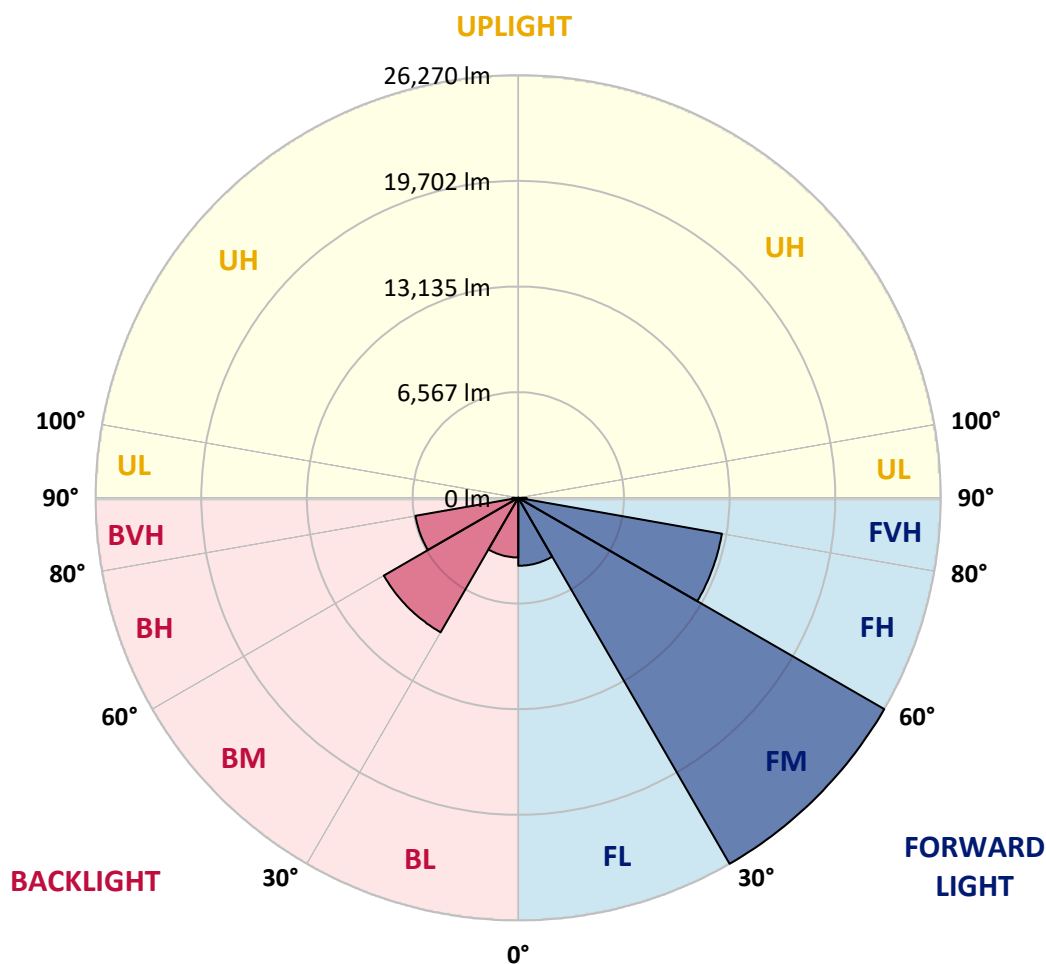
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4224.9	6.6			
FM	(30°-60°)	26269.6	41.0			
FH	(60°-80°)	12856.3	20.1			G5
FVH	(80°-90°)	520.9	0.8			G4/750
BL	(0°-30°)	3709.3	5.8	B4/5000		
BM	(30°-60°)	9655.9	15.1	B5		
BH	(60°-80°)	6488.5	10.1	B5		G5
BVH	(80°-90°)	372.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4
2.5°	7016.8	6996.9	7013.5	7013.5	7020.1	7016.8	7040.1	7046.8	7056.7	7076.7	7076.7
5°	6946.9	6943.7	6973.6	7000.1	7026.8	7050.1	7080.0	7123.2	7129.9	7153.2	7183.1
7.5°	6923.7	6903.8	6950.3	6983.5	7046.8	7103.2	7183.1	7256.3	7286.2	7296.2	7352.6
10°	7103.2	7070.0	7113.3	7133.2	7186.4	7243.0	7336.0	7452.5	7485.7	7525.7	7588.8
12.5°	7409.2	7372.6	7435.9	7465.8	7515.6	7565.5	7628.7	7741.7	7758.4	7831.5	7891.4
15°	7828.2	7785.0	7825.0	7861.4	7944.6	7991.2	8054.3	8164.1	8164.1	8220.6	8263.9
17.5°	8396.9	8340.3	8370.3	8383.6	8436.8	8506.7	8613.1	8709.5	8759.3	8739.5	8679.6
20°	9244.9	9175.1	9175.1	9108.6	9088.6	9145.2	9284.8	9417.8	9471.0	9367.9	9221.6
22.5°	10518.6	10418.8	10362.2	10136.1	10046.3	10053.0	10192.7	10355.6	10398.8	10216.0	9886.7
25°	12138.0	11981.7	11905.3	11572.8	11369.9	11193.6	11303.4	11512.9	11572.8	11346.6	10814.6
27.5°	13757.6	13767.6	13694.4	13295.4	12959.5	12636.9	12580.3	12799.9	12863.0	12607.0	11948.5
30°	16029.0	15792.8	15653.1	15174.3	14695.4	14243.1	14010.3	14100.1	14116.7	13810.8	13045.9
32.5°	17987.6	17927.8	17628.5	17209.4	16594.2	15886.0	15496.9	15353.9	15327.2	14891.6	13983.8
35°	20219.0	20185.8	19869.8	19371.1	18705.9	17721.6	17019.9	16610.8	16577.6	15965.7	14911.5
37.5°	22487.1	22487.1	22177.7	21632.4	20944.0	19713.5	18646.1	17997.6	17891.2	17093.1	15856.0
40°	24296.1	24186.4	24242.9	24013.4	23225.3	21918.4	20451.8	19510.7	19367.7	18409.9	16860.3
42.5°	25323.6	25287.1	25626.3	25882.4	25559.8	24515.5	22440.4	21150.2	20950.7	19859.9	18017.6
45°	25553.1	25513.3	26118.4	27056.3	27508.5	27079.6	24602.0	22876.2	22633.3	21376.3	19258.0
47.5°	25024.4	24944.6	25832.5	27312.4	28762.2	29517.1	26943.3	24748.4	24395.9	22852.9	20531.7
50°	23434.8	23358.3	24701.8	26667.2	29184.6	31173.2	29483.9	26733.7	26195.0	24435.8	21818.6
52.5°	19979.6	20016.2	22121.2	24821.5	28629.3	32204.2	31672.1	28825.5	28176.9	26055.3	23025.8
55°	15563.3	15643.1	18230.3	21203.4	26407.8	32047.9	33165.2	30980.3	30335.2	27578.3	24272.8
57.5°	11143.8	11496.3	13920.5	16863.6	22141.2	29570.3	33491.2	33028.9	32403.6	29241.1	25493.3
60°	7223.0	7286.2	9780.3	12746.6	16860.3	25167.3	32829.3	34581.9	34093.0	30937.2	26514.2
62.5°	4629.1	4672.4	6192.1	8915.7	12134.8	18619.4	30601.3	35256.9	35107.3	32057.8	27495.2
65°	3402.0	3368.8	4160.2	5892.8	8174.1	11483.0	26274.7	34931.1	35227.0	32759.5	28306.7
67.5°	2840.0	2793.4	3182.5	4080.4	6022.5	6521.4	19440.9	32812.7	33896.9	32679.7	28901.9
70°	2587.2	2547.3	2783.5	3029.5	4698.9	4366.4	9800.2	28526.2	30195.6	31771.8	28805.5
72.5°	2191.6	2121.6	2444.2	2690.3	3654.7	3348.8	4050.5	21911.7	23947.0	28862.1	27448.7
75°	1699.3	1652.8	1928.7	2367.8	2746.9	2613.9	2560.7	13305.3	15526.8	22320.8	24013.4
77.5°	1346.8	1283.6	1536.4	1845.6	2470.9	1972.0	1865.6	5729.9	7931.3	14249.8	17967.6
80°	1014.2	957.8	1167.3	1459.9	1898.8	1486.5	1207.1	2337.8	2989.6	7219.7	9035.4
82.5°	721.6	671.8	814.8	1070.8	1276.9	1333.5	741.6	1310.3	1473.2	2783.5	2018.5
85°	462.3	432.3	545.4	671.8	811.4	858.0	452.2	685.0	751.5	1147.3	841.3
87.5°	252.8	206.2	292.6	312.6	375.8	342.6	216.2	249.4	269.4	415.6	355.8
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°	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4	7063.4
2.5°	7089.9	7100.0	7133.2	7143.2	7166.5	7196.4	7216.3	7236.3	7236.3	7256.3	7256.3
5°	7186.4	7209.6	7279.6	7316.1	7376.0	7435.9	7472.4	7515.6	7542.3	7555.6	7562.1
7.5°	7372.6	7409.2	7508.9	7572.2	7675.3	7758.4	7814.9	7874.8	7888.1	7924.7	7911.4
10°	7625.4	7668.6	7781.7	7901.4	8024.4	8127.5	8180.7	8224.0	8240.6	8247.3	8230.6
12.5°	7914.6	7977.9	8124.2	8270.5	8400.2	8490.0	8503.3	8493.4	8446.8	8406.8	8406.8
15°	8270.5	8327.1	8490.0	8649.7	8775.9	8792.7	8709.5	8656.2	8599.8	8589.8	8589.8
17.5°	8696.2	8726.1	8875.8	9032.1	9042.0	8985.5	8862.5	8812.5	8759.3	8722.8	8726.1
20°	9191.7	9181.7	9288.1	9354.7	9284.8	9111.8	8925.6	8842.5	8789.3	8746.0	8749.4
22.5°	9783.6	9707.2	9693.8	9677.2	9491.0	9128.5	8875.8	8769.4	8686.2	8626.3	8646.3
25°	10644.9	10352.3	10149.4	10036.4	9617.4	9038.8	8716.1	8480.0	8323.7	8220.6	8260.6
27.5°	11722.4	11230.2	10718.1	10442.1	9617.4	8855.8	8330.4	7948.0	7691.9	7585.5	7638.7
30°	12750.0	12234.5	11479.6	10930.9	9594.1	8556.5	7708.5	7176.4	6877.1	6770.7	6833.9
32.5°	13627.9	13065.9	12287.7	11466.4	9537.5	8071.0	6937.0	6348.3	6059.1	5932.7	5995.8
35°	14442.7	13844.1	13099.2	12054.9	9387.9	7359.3	6089.0	5640.1	5317.5	5114.6	5181.2
37.5°	15277.3	14565.7	13867.3	12587.0	9118.5	6527.9	5437.2	5054.8	4675.6	4403.0	4476.1
40°	16185.2	15333.9	14688.8	12902.9	8676.2	5736.5	4931.7	4582.6	4180.2	3890.8	3947.4
42.5°	17246.0	16255.1	15603.3	13065.9	8071.0	5174.5	4602.5	4260.0	3880.9	3644.8	3691.3
45°	18353.4	17269.3	16437.9	13062.6	7395.9	4911.8	4496.1	4156.9	3737.9	3491.8	3531.6
47.5°	19514.1	18330.2	17159.6	12849.7	6810.6	4948.4	4436.2	3934.1	3471.8	3232.3	3265.6
50°	20677.9	19490.8	17858.0	12450.7	6561.2	4868.5	4213.4	3621.4	3076.1	2860.0	2873.3
52.5°	21831.9	20724.5	18459.8	11882.0	6308.5	4572.5	3927.4	3215.7	2913.2	2763.5	2763.5
55°	22992.5	21944.9	19115.0	11054.0	5676.7	4226.7	3448.5	3062.8	2783.5	2647.1	2633.8
57.5°	24156.5	23355.0	19736.9	10225.9	4881.9	3801.0	3185.8	2876.6	2653.7	2537.4	2517.4
60°	25366.9	24967.9	20378.6	9464.3	4097.0	3255.7	2993.0	2726.9	2500.8	2371.1	2361.1
62.5°	26614.0	26743.7	20880.8	8483.3	3375.4	2923.1	2820.0	2547.3	2327.9	2204.8	2201.5
65°	27871.0	28456.4	21210.0	7123.2	2736.9	2607.2	2633.8	2351.1	2128.3	2021.9	2018.5
67.5°	28818.8	29690.0	21116.9	5390.7	2244.8	2307.9	2401.1	2144.9	1935.4	1852.3	1855.7
70°	28925.2	29543.8	20199.1	3691.3	1878.9	2015.3	2141.6	1942.1	1725.9	1666.0	1669.4
72.5°	27508.5	27548.4	17641.8	2411.0	1589.6	1769.2	1868.9	1735.9	1526.4	1466.6	1463.2
75°	23793.9	22783.0	12952.8	1589.6	1330.2	1519.8	1612.8	1519.8	1316.9	1330.2	1283.6
77.5°	18027.5	16135.3	7864.8	1130.7	1110.7	1276.9	1403.3	1336.8	1163.9	1306.9	1150.7
80°	9288.1	8729.4	3508.4	844.7	877.9	1020.9	1153.9	1067.4	921.2	877.9	801.4
82.5°	2128.3	2474.1	1383.4	605.3	635.2	734.9	881.3	801.4	661.7	558.7	552.1
85°	744.9	814.8	611.9	379.1	372.5	458.9	598.6	535.4	449.0	359.2	379.1
87.5°	236.2	309.2	229.5	152.9	159.6	206.2	276.0	252.8	209.5	136.3	143.0
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)