

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: P970933

Luminaire Tested: **NAV-SB6C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48675.2 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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



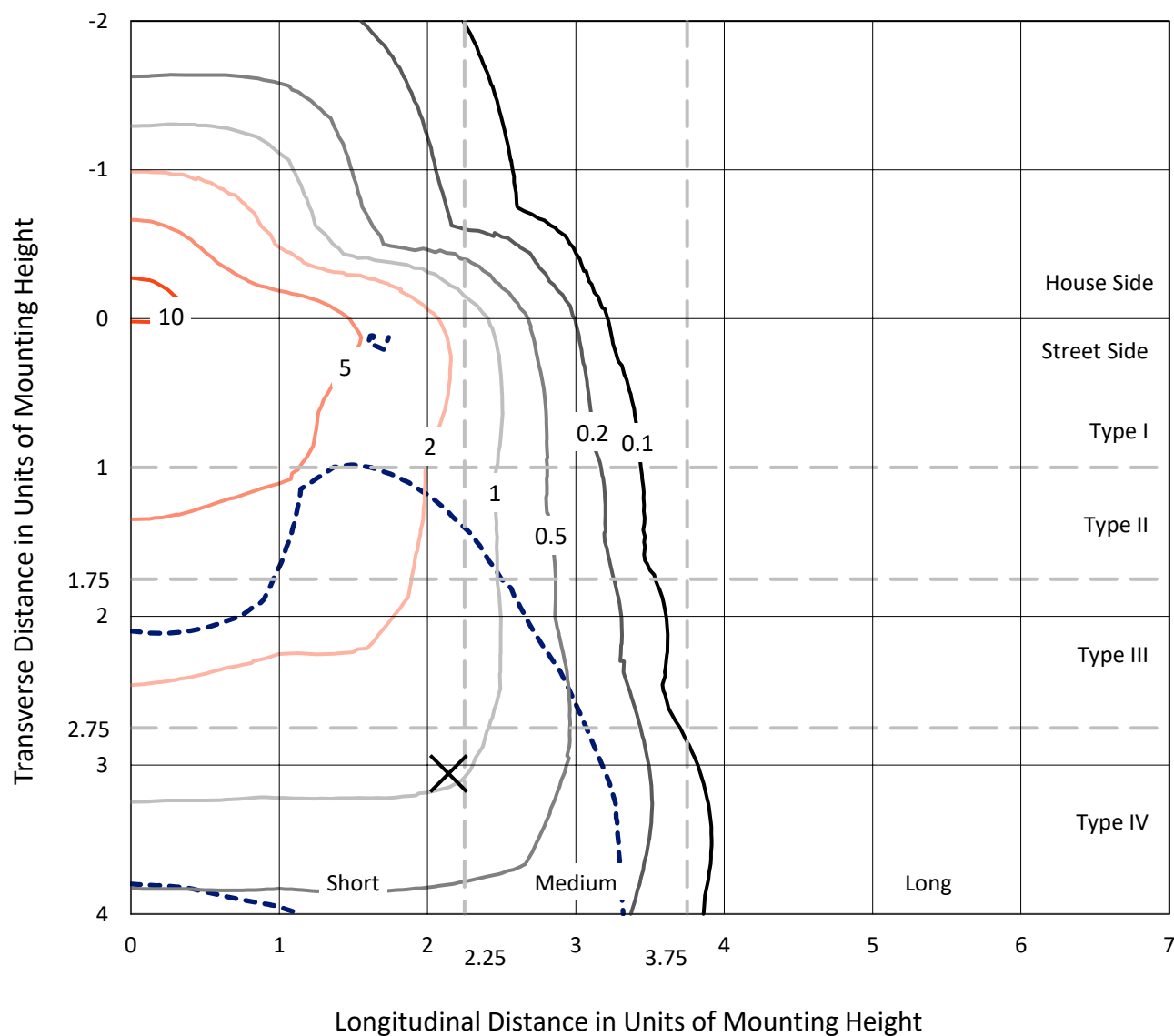
REPORT NUMBER: P970933

CATALOG NUMBER: NAV-SB6C-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

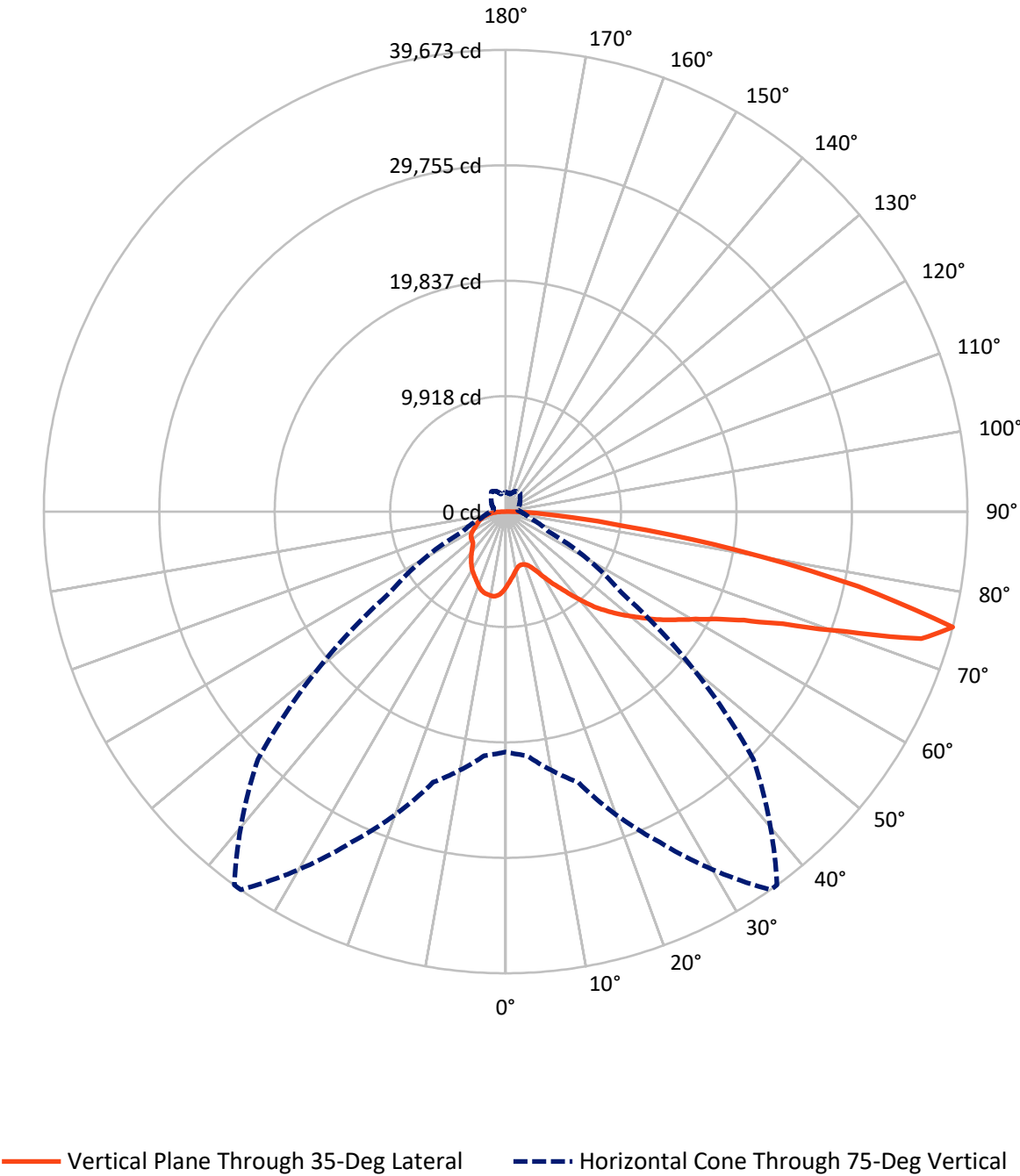


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc

Type IV - Short - N/A

REPORT NUMBER: P970933
CATALOG NUMBER: NAV-SB6C-740-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P970933

CATALOG NUMBER: NAV-SB6C-740-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11583.5	0.0	11583.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	37091.7	0.0	37091.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	48675.2	0.0	48675.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.1	1.3
10°-20°	1771.4	3.6
20°-30°	2974.6	6.1
30°-40°	4623.0	9.5
40°-50°	6861.8	14.1
50°-60°	9473.1	19.5
60°-70°	11493.0	23.6
70°-80°	9498.1	19.5
80°-90°	1366.1	2.8
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°	48675.2	100.0
0°-180°	48675.2	100.0

Coefficient of Utilization



REPORT NUMBER: P970933

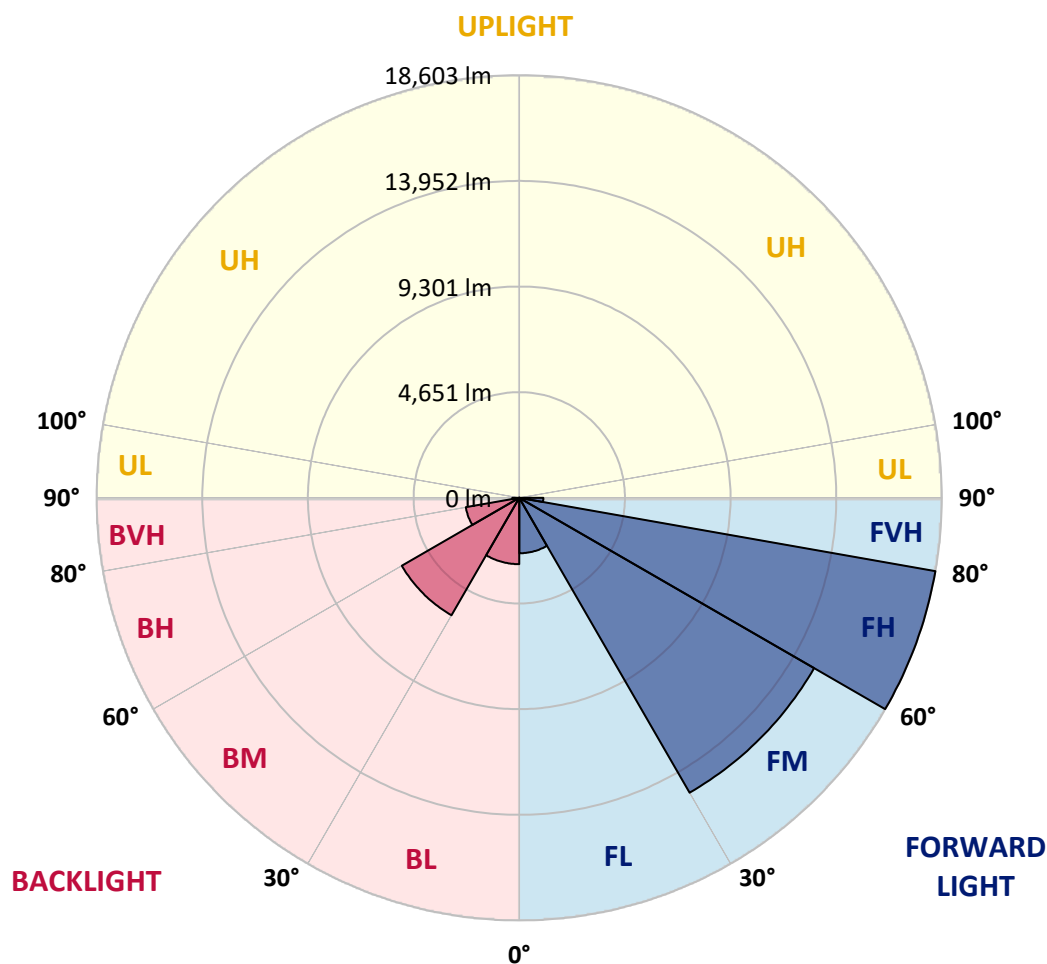
CATALOG NUMBER: NAV-SB6C-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2441.0	5.0			
FM	(30°-60°)	14989.3	30.8			
FH	(60°-80°)	18602.9	38.2			G5
FVH	(80°-90°)	1058.5	2.2			G5
BL	(0°-30°)	2919.2	6.0	B4/5000		
BM	(30°-60°)	5968.5	12.3	B4/8500		
BH	(60°-80°)	2388.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	307.6	0.6			G3/500
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 Short



REPORT NUMBER: P970933

CATALOG NUMBER: NAV-SB6C-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	5981.1	6017.9	6033.7	6025.8	6065.2	6060.0	6115.3	6183.7	6278.4	6370.5	6504.8
5°	5520.5	5560.1	5594.2	5625.8	5702.2	5725.9	5812.7	5944.3	6117.9	6294.2	6515.2
7.5°	5091.7	5125.9	5178.5	5236.4	5365.4	5389.0	5533.8	5739.0	5981.1	6239.0	6544.2
10°	4741.8	4775.9	4831.1	4896.9	5057.5	5086.5	5270.7	5544.2	5860.0	6186.3	6575.8
12.5°	4591.7	4602.2	4633.8	4699.6	4839.0	4857.5	5060.1	5373.3	5741.6	6146.8	6623.1
15°	4583.8	4604.9	4607.5	4641.7	4757.5	4765.4	4952.2	5262.8	5667.9	6138.9	6694.2
17.5°	4662.7	4678.5	4654.8	4675.9	4773.3	4786.4	4933.8	5210.1	5644.3	6173.2	6815.2
20°	4873.3	4886.5	4815.3	4786.4	4857.5	4868.0	5012.8	5244.3	5667.9	6244.2	6981.0
22.5°	5320.6	5328.5	5154.8	5036.4	5041.7	5047.0	5173.3	5383.7	5760.1	6373.1	7191.5
25°	6017.9	6012.6	5736.4	5507.4	5375.8	5346.9	5431.2	5610.0	5915.3	6544.2	7462.5
27.5°	6833.7	6794.2	6517.9	6175.8	5888.9	5846.9	5828.5	5904.8	6136.4	6770.5	7794.1
30°	7754.6	7717.7	7420.4	6973.1	6575.8	6507.3	6333.7	6294.2	6465.3	7078.3	8254.5
32.5°	8765.1	8741.4	8386.1	7844.1	7312.6	7233.6	6941.5	6836.2	6970.5	7544.1	8896.6
35°	9612.3	9591.3	9296.5	8738.7	8088.8	7991.4	7694.1	7575.7	7644.1	8141.5	9736.1
37.5°	10378.1	10367.6	10114.9	9675.5	9004.5	8886.1	8551.9	8512.4	8499.3	8928.2	10754.4
40°	11088.6	11062.2	10799.1	10567.5	10070.2	9962.3	9667.6	9633.4	9533.4	9896.6	11906.9
42.5°	11875.3	11806.9	11425.4	11317.4	11183.3	11093.8	10917.5	10922.8	10701.7	10988.5	13127.9
45°	12517.4	12477.9	12085.9	12022.6	12167.4	12130.6	12283.2	12322.7	11893.8	12133.2	14396.1
47.5°	13206.8	13169.9	12838.4	12793.6	13185.7	13196.3	13735.7	13748.8	13056.8	13322.5	15667.1
50°	14056.7	14004.1	13675.1	13730.4	14169.9	14209.4	15196.1	15106.7	14127.8	14530.4	16927.6
52.5°	14617.2	14648.8	14577.8	14667.2	15267.2	15304.0	16632.8	16403.9	15188.2	15722.4	18164.2
55°	15030.3	15093.4	15314.5	15519.7	16424.9	16461.8	17987.9	17638.0	16067.1	16827.5	19327.3
57.5°	15561.9	15472.4	15885.6	16285.5	17524.8	17622.2	19306.3	18827.4	16846.0	17780.1	20124.6
60°	16325.0	16261.8	16582.9	17174.9	18756.4	18911.6	20700.9	19898.3	17417.0	18535.3	20279.9
62.5°	17872.2	17714.4	17764.3	18287.9	20308.8	20514.0	22274.5	20832.5	17701.1	18830.0	19448.4
65°	20185.1	19914.1	19661.6	20024.6	22495.5	22698.1	24050.6	21566.6	17595.9	18259.0	17240.7
67.5°	23098.1	22829.6	22519.1	22861.3	25716.2	25876.7	26242.6	21979.7	16767.1	16059.2	13338.3
70°	25500.5	25400.5	25771.6	27179.3	30860.6	30865.8	29052.8	21637.6	14496.2	11385.9	7717.7
72.5°	25182.1	25121.6	27076.7	31429.0	37344.2	37204.7	31713.1	19048.4	9765.0	5136.4	2891.8
75°	20658.8	21050.8	24079.6	31352.6	39673.0	39654.6	30084.4	12109.6	4039.1	2128.7	1494.7
77.5°	11078.0	11699.0	15632.9	23148.1	30971.1	31436.9	21150.9	4236.5	1734.1	1363.0	1034.1
80°	3612.8	4154.9	6231.1	11785.9	20124.6	20037.8	9065.0	1663.1	1186.7	965.8	715.8
82.5°	1534.1	1597.3	2784.0	5565.3	10328.1	10167.6	2886.6	955.2	834.1	660.5	442.1
85°	599.9	671.0	1228.9	2573.5	4473.3	4375.9	1042.0	473.7	534.1	431.5	263.1
87.5°	197.3	239.4	439.4	881.5	1391.9	1342.0	255.2	163.2	231.5	197.3	94.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P970933

CATALOG NUMBER: NAV-SB6C-740-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6541.5	6583.7	6633.7	6707.3	6770.5	6823.1	6878.4	6912.6	6925.7	6965.2	6962.6
5°	6588.9	6681.1	6804.7	6925.7	7044.1	7115.2	7178.4	7210.0	7238.9	7259.9	7265.2
7.5°	6667.8	6786.3	6981.0	7138.9	7238.9	7296.8	7338.9	7328.3	7338.9	7344.1	7352.0
10°	6736.3	6902.0	7133.6	7283.6	7359.9	7362.6	7352.0	7315.2	7296.8	7299.4	7304.7
12.5°	6817.9	7002.1	7252.0	7378.4	7399.4	7341.5	7296.8	7233.6	7210.0	7199.4	7194.2
15°	6928.4	7138.9	7380.9	7428.3	7375.7	7302.0	7225.7	7123.1	7070.4	7028.3	7041.5
17.5°	7062.6	7294.1	7481.0	7446.7	7333.6	7212.5	7088.9	6933.6	6825.8	6781.0	6783.7
20°	7249.4	7457.3	7557.2	7407.3	7236.2	7052.0	6841.6	6652.0	6552.1	6507.3	6502.1
22.5°	7475.7	7675.7	7630.9	7338.9	7096.8	6802.1	6538.9	6399.5	6349.5	6317.9	6323.1
25°	7746.7	7917.7	7683.6	7238.9	6867.8	6470.5	6267.9	6223.2	6199.5	6175.8	6175.8
27.5°	8099.3	8191.4	7723.1	7091.5	6510.0	6117.9	6044.2	6052.1	6044.2	6004.8	6012.6
30°	8565.1	8546.7	7759.9	6852.0	6099.5	5799.6	5804.8	5839.0	5844.2	5817.9	5831.1
32.5°	9178.2	8991.4	7778.3	6541.5	5707.4	5520.5	5525.9	5562.7	5589.0	5544.2	5565.3
35°	9920.3	9509.7	7749.3	6152.2	5404.8	5254.9	5215.3	5225.9	5233.8	5191.6	5220.6
37.5°	10786.0	10091.2	7620.5	5720.5	5154.8	4994.3	4910.2	4839.0	4797.0	4757.5	4783.8
40°	11735.8	10725.4	7383.6	5299.6	4875.9	4718.1	4591.7	4457.5	4315.5	4262.8	4286.4
42.5°	12730.5	11378.0	7096.8	4896.9	4554.9	4426.0	4291.8	4097.0	3883.9	3776.0	3789.1
45°	13762.0	12046.3	6815.2	4499.6	4226.0	4170.7	4015.4	3781.2	3549.7	3412.8	3402.4
47.5°	14772.4	12677.9	6402.0	4099.7	3918.1	3978.6	3857.6	3641.8	3383.9	3168.2	3144.5
50°	15738.2	13270.0	5725.9	3694.4	3668.1	3920.7	3804.9	3494.4	3199.7	2923.4	2899.7
52.5°	16696.0	13748.8	4860.1	3326.0	3533.9	3904.9	3736.5	3394.5	3034.0	2744.5	2713.0
55°	17509.0	13996.2	4026.0	3010.3	3339.2	3770.8	3654.9	3276.0	2799.8	2491.9	2465.5
57.5°	17972.1	13796.2	3331.2	2699.7	3070.8	3549.7	3515.5	3023.4	2520.9	2284.0	2252.4
60°	17772.2	12985.7	2762.9	2428.7	2815.6	3310.2	3273.4	2773.4	2307.7	2084.0	2052.5
62.5°	16669.7	11441.2	2313.0	2192.0	2584.0	3065.6	3031.3	2581.4	2144.6	1928.7	1894.6
65°	14448.8	9307.1	1963.0	1994.5	2349.8	2770.8	2820.8	2420.8	2015.7	1805.1	1770.9
67.5°	11020.1	6741.5	1689.3	1823.6	2120.8	2481.4	2626.0	2305.0	1907.7	1707.8	1676.2
70°	6281.1	3828.6	1457.8	1657.7	1918.3	2213.0	2476.1	2213.0	1791.9	1626.2	1605.1
72.5°	2381.4	1757.8	1260.4	1492.0	1723.5	1986.7	2310.4	2068.2	1657.7	1534.1	1513.0
75°	1270.9	1070.9	1060.5	1297.2	1499.9	1765.7	2102.5	1926.2	1557.8	1620.9	1673.5
77.5°	865.7	757.8	886.7	1110.4	1255.1	1520.9	1881.4	1710.4	1349.9	1344.6	1239.3
80°	599.9	536.8	721.0	894.6	971.0	1278.8	1641.9	1468.3	1099.9	1026.2	981.5
82.5°	360.5	349.9	539.5	668.4	686.7	986.8	1360.4	1231.4	900.0	784.1	789.5
85°	197.3	207.9	344.7	392.1	400.0	689.4	1065.7	952.5	692.1	581.5	586.8
87.5°	55.2	71.0	126.3	155.3	192.1	357.8	634.2	565.7	347.4	242.1	242.1
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)