

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: P971429

Luminaire Tested: **NAV-SB6D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971429
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-SB6D-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62515.8 lumens
Efficiency: N/A
Efficacy: 142.0 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): 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



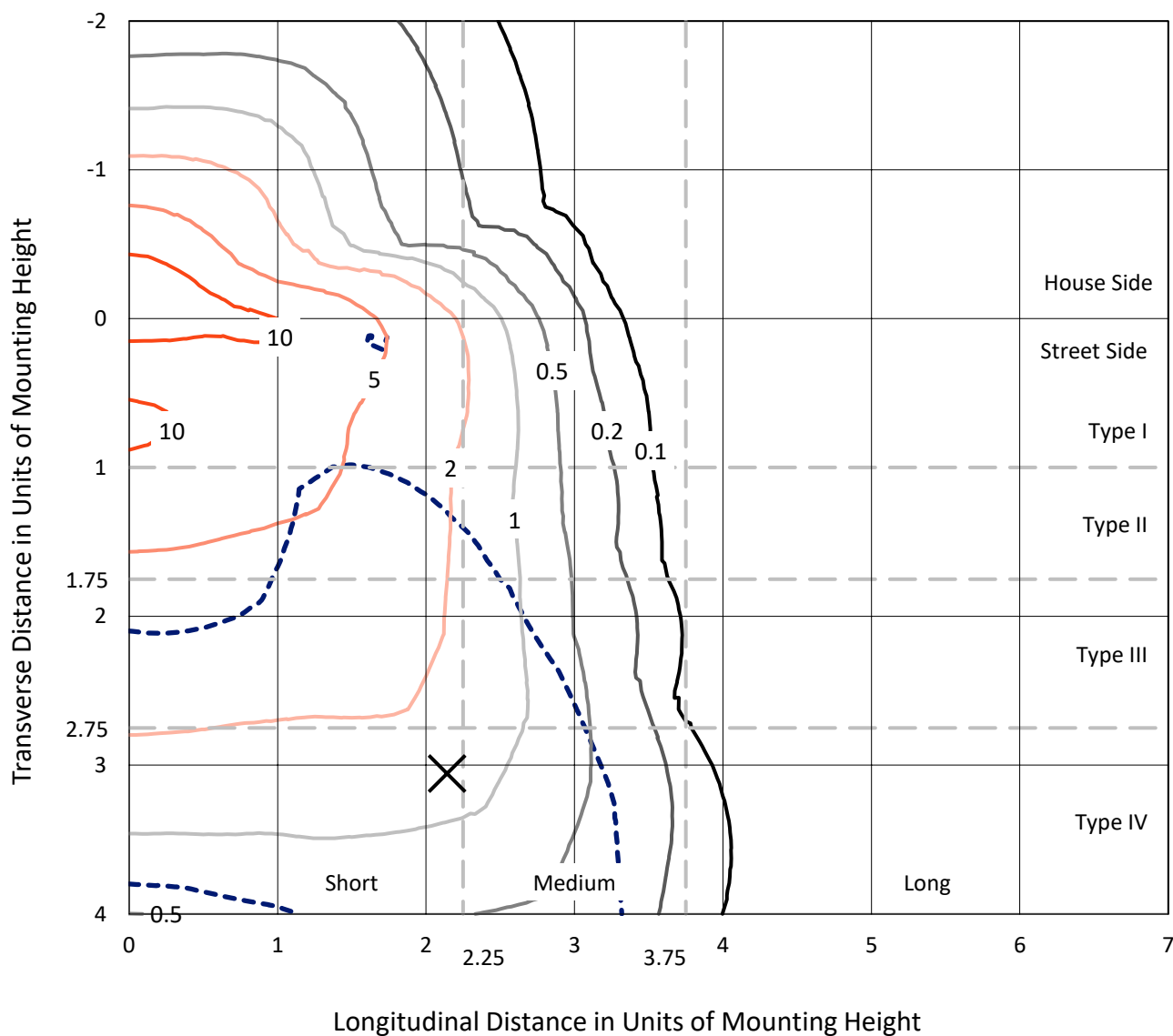
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

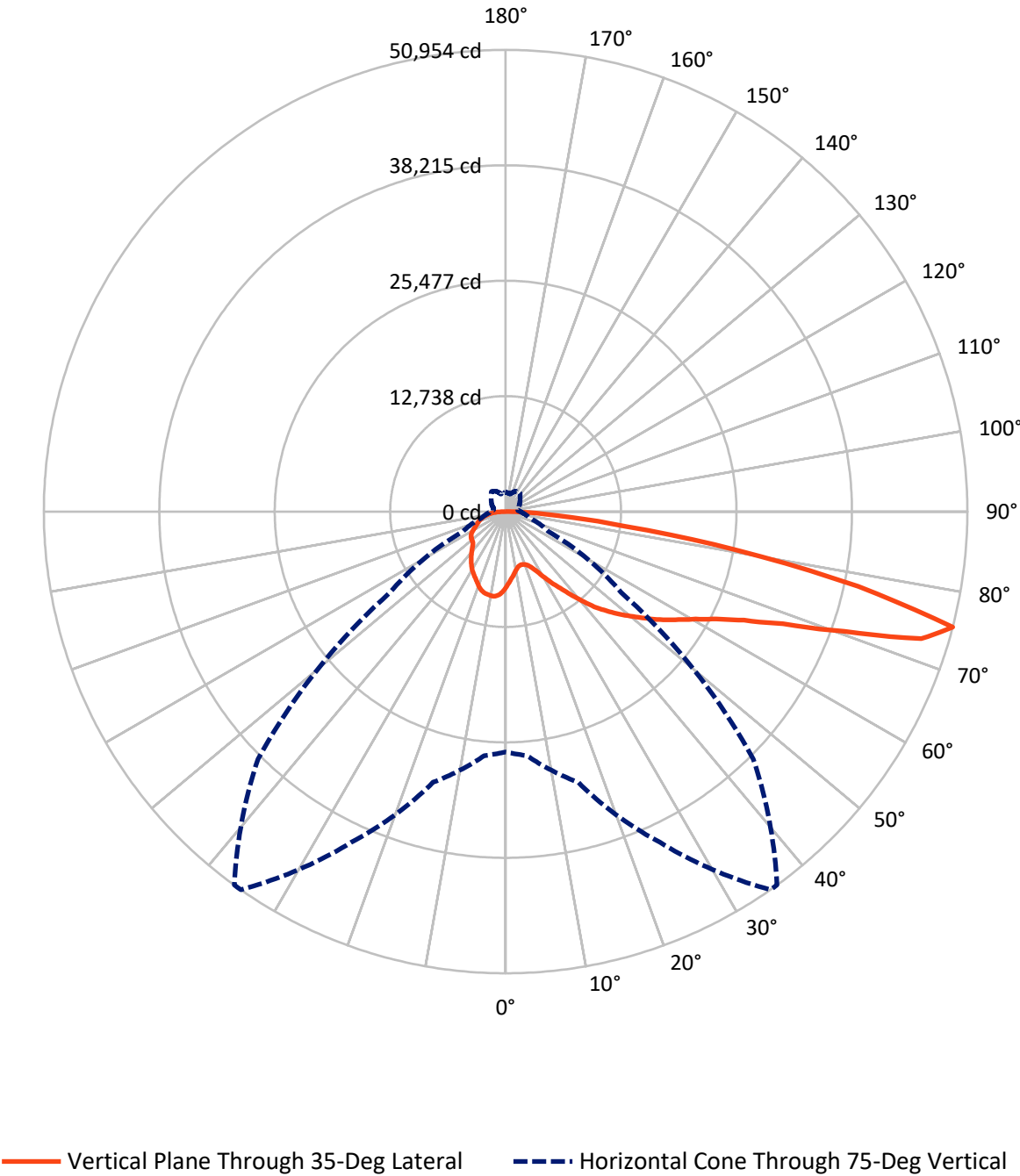


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14877.2	0.0	14877.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	47638.6	0.0	47638.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	62515.8	0.0	62515.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.7	1.3
10°-20°	2275.1	3.6
20°-30°	3820.5	6.1
30°-40°	5937.5	9.5
40°-50°	8812.9	14.1
50°-60°	12166.7	19.5
60°-70°	14761.0	23.6
70°-80°	12198.8	19.5
80°-90°	1754.6	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°	62515.8	100.0
0°-180°	62515.8	100.0

Coefficient of Utilization



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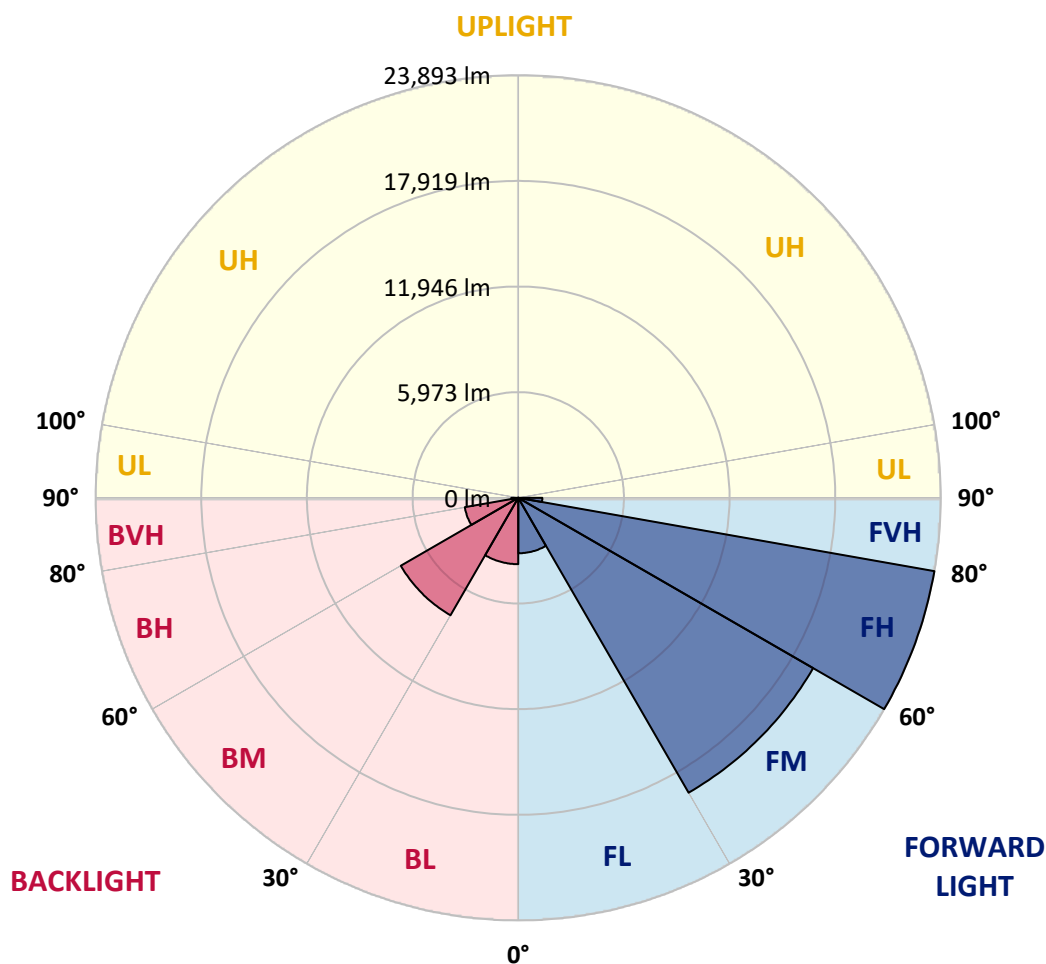
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3135.0	5.0			
FM	(30°-60°)	19251.5	30.8			
FH	(60°-80°)	23892.6	38.2			G5
FVH	(80°-90°)	1359.5	2.2			G5
BL	(0°-30°)	3749.2	6.0	B4/5000		
BM	(30°-60°)	7665.6	12.3	B4/8500		
BH	(60°-80°)	3067.2	4.9	B4/5000		G4/5000
BVH	(80°-90°)	395.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7
2.5°	7681.8	7729.1	7749.4	7739.3	7789.9	7783.1	7854.2	7942.0	8063.7	8182.0	8354.3
5°	7090.3	7141.1	7184.9	7225.5	7323.5	7354.0	7465.5	7634.5	7857.5	8084.0	8367.8
7.5°	6539.5	6583.4	6651.0	6725.3	6891.0	6921.4	7107.2	7370.9	7681.8	8012.9	8405.0
10°	6090.0	6133.9	6204.9	6289.4	6495.5	6532.7	6769.3	7120.8	7526.3	7945.4	8445.6
12.5°	5897.3	5910.9	5951.5	6035.9	6215.1	6238.7	6498.9	6901.1	7374.3	7894.7	8506.4
15°	5887.2	5914.2	5917.6	5961.6	6110.2	6120.4	6360.3	6759.2	7279.7	7884.5	8597.6
17.5°	5988.6	6008.9	5978.5	6005.5	6130.5	6147.4	6336.7	6691.5	7249.2	7928.5	8753.1
20°	6259.0	6275.9	6184.6	6147.4	6238.7	6252.2	6438.1	6735.5	7279.7	8019.7	8966.0
22.5°	6833.5	6843.6	6620.6	6468.5	6475.2	6482.0	6644.3	6914.6	7397.9	8185.3	9236.4
25°	7729.1	7722.4	7367.5	7073.4	6904.5	6867.3	6975.4	7205.2	7597.3	8405.0	9584.5
27.5°	8776.8	8726.0	8371.2	7931.9	7563.5	7509.5	7485.8	7583.8	7881.1	8695.7	10010.3
30°	9959.6	9912.3	9530.3	8955.8	8445.6	8357.6	8134.6	8084.0	8303.6	9091.0	10601.7
32.5°	11257.4	11226.9	10770.7	10074.5	9391.9	9290.5	8915.3	8780.2	8952.5	9689.2	11426.3
35°	12345.6	12318.6	11940.0	11223.5	10388.8	10263.7	9881.9	9729.8	9817.7	10456.4	12504.4
37.5°	13329.0	13315.6	12991.1	12426.7	11564.9	11412.9	10983.6	10933.0	10916.0	11466.9	13812.3
40°	14241.6	14207.7	13869.8	13572.3	12933.7	12795.1	12416.5	12372.6	12244.2	12710.6	15292.6
42.5°	15252.0	15164.2	14674.1	14535.5	14363.2	14248.3	14021.9	14028.7	13744.7	14113.1	16860.7
45°	16076.6	16026.0	15522.4	15441.3	15627.1	15579.8	15775.9	15826.5	15275.7	15583.2	18489.7
47.5°	16962.1	16914.8	16489.0	16431.5	16935.0	16948.6	17641.4	17658.3	16769.4	17110.7	20122.0
50°	18053.7	17986.1	17563.7	17634.6	18199.0	18249.7	19517.0	19402.1	18145.0	18662.0	21740.8
52.5°	18773.5	18814.1	18722.9	18837.8	19608.2	19655.6	21362.3	21068.3	19506.9	20192.9	23329.2
55°	19304.1	19385.2	19669.1	19932.8	21095.3	21142.6	23102.8	22653.3	20635.7	21612.3	24822.9
57.5°	19986.8	19871.9	20402.5	20916.1	22508.0	22633.0	24796.0	24180.9	21636.0	22835.8	25847.0
60°	20966.9	20885.8	21298.1	22058.5	24089.7	24289.0	26587.1	25556.3	22369.4	23805.7	26046.4
62.5°	22954.1	22751.3	22815.5	23488.1	26083.6	26347.1	28608.1	26756.1	22734.4	24184.3	24978.4
65°	25924.7	25576.6	25252.2	25718.6	28892.0	29152.2	30889.3	27699.0	22599.2	23450.9	22143.0
67.5°	29665.9	29321.2	28922.4	29361.7	33028.6	33234.7	33704.5	28229.6	21534.6	20625.6	17131.0
70°	32751.4	32623.0	33099.5	34907.6	39635.6	39642.4	37313.9	27790.2	18618.1	14623.4	9912.3
72.5°	32342.5	32264.7	34775.8	40365.6	47962.9	47783.8	40730.6	24464.7	12541.6	6596.9	3714.2
75°	26533.0	27036.6	30926.5	40267.6	50953.9	50930.2	38638.7	15552.8	5187.6	2734.1	1919.6
77.5°	14228.0	15025.6	20078.0	29730.1	39777.6	40375.8	27165.1	5441.1	2227.1	1750.6	1328.2
80°	4640.2	5336.4	8002.8	15137.1	25847.0	25735.5	11642.7	2135.9	1524.2	1240.4	919.2
82.5°	1970.3	2051.4	3575.6	7147.8	13264.8	13058.7	3707.4	1226.8	1071.3	848.3	567.7
85°	770.5	861.8	1578.3	3305.2	5745.2	5620.3	1338.3	608.3	686.0	554.2	337.9
87.5°	253.5	307.5	564.4	1132.1	1787.8	1723.5	327.8	209.5	297.4	253.5	121.7
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°	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7	8330.7
2.5°	8401.6	8455.7	8519.9	8614.5	8695.7	8763.2	8834.2	8878.1	8895.1	8945.7	8942.3
5°	8462.5	8580.8	8739.6	8895.1	9047.2	9138.4	9219.5	9260.1	9297.2	9324.2	9331.0
7.5°	8563.9	8715.9	8966.0	9168.8	9297.2	9371.6	9425.6	9412.1	9425.6	9432.4	9442.5
10°	8651.7	8864.6	9162.1	9354.7	9452.7	9456.0	9442.5	9395.3	9371.6	9375.0	9381.7
12.5°	8756.5	8993.0	9314.1	9476.3	9503.4	9429.0	9371.6	9290.5	9260.1	9246.5	9239.8
15°	8898.4	9168.8	9479.7	9540.5	9472.9	9378.3	9280.3	9148.5	9080.9	9026.9	9043.8
17.5°	9070.7	9368.2	9608.1	9564.2	9418.8	9263.4	9104.6	8905.2	8766.6	8709.1	8712.5
20°	9310.7	9577.7	9706.1	9513.5	9293.8	9057.2	8786.9	8543.6	8415.1	8357.6	8350.9
22.5°	9601.4	9858.2	9800.7	9425.6	9114.7	8736.2	8398.2	8219.2	8154.9	8114.3	8121.1
25°	9949.5	10169.1	9868.4	9297.2	8820.6	8310.4	8050.1	7992.6	7962.3	7931.9	7931.9
27.5°	10402.3	10520.6	9919.0	9107.9	8361.0	7857.5	7762.8	7773.0	7762.8	7712.2	7722.4
30°	11000.5	10976.8	9966.4	8800.4	7833.9	7448.6	7455.3	7499.3	7506.1	7472.2	7489.2
32.5°	11787.9	11548.0	9990.1	8401.6	7330.3	7090.3	7097.1	7144.5	7178.2	7120.8	7147.8
35°	12741.0	12213.8	9952.9	7901.4	6941.6	6749.0	6698.3	6711.8	6722.0	6667.9	6705.0
37.5°	13852.9	12960.7	9787.2	7347.2	6620.6	6414.4	6306.3	6215.1	6161.0	6110.2	6144.1
40°	15072.9	13775.2	9483.1	6806.5	6262.3	6059.6	5897.3	5725.0	5542.5	5474.9	5505.3
42.5°	16350.4	14613.3	9114.7	6289.4	5850.1	5684.4	5512.0	5262.0	4988.3	4849.7	4866.6
45°	17675.2	15471.7	8753.1	5779.1	5427.6	5356.6	5157.2	4856.4	4559.0	4383.3	4369.8
47.5°	18973.0	16282.7	8222.6	5265.4	5032.1	5109.9	4954.4	4677.3	4346.1	4069.0	4038.6
50°	20213.2	17043.2	7354.0	4744.9	4711.1	5035.5	4886.9	4488.1	4109.5	3754.7	3724.3
52.5°	21443.4	17658.3	6242.0	4271.8	4538.8	5015.3	4798.9	4359.6	3896.6	3524.9	3484.4
55°	22487.7	17975.9	5170.7	3866.2	4288.7	4842.9	4694.2	4207.5	3595.9	3200.5	3166.6
57.5°	23082.5	17719.1	4278.6	3467.5	3944.0	4559.0	4515.1	3883.1	3237.7	2933.4	2893.0
60°	22825.6	16678.2	3548.6	3119.4	3616.1	4251.5	4204.1	3562.1	2963.9	2676.6	2636.1
62.5°	21409.6	14694.4	2970.7	2815.2	3318.7	3937.2	3893.3	3315.4	2754.4	2477.2	2433.2
65°	18557.2	11953.6	2521.2	2561.7	3018.0	3558.7	3622.9	3109.2	2588.7	2318.3	2274.5
67.5°	14153.6	8658.5	2169.7	2342.0	2723.9	3186.9	3372.9	2960.5	2450.2	2193.3	2152.8
70°	8067.1	4917.2	1872.3	2129.1	2463.7	2842.2	3180.2	2842.2	2301.5	2088.5	2061.6
72.5°	3058.5	2257.6	1618.8	1916.2	2213.6	2551.5	2967.3	2656.4	2129.1	1970.3	1943.3
75°	1632.3	1375.4	1361.9	1666.1	1926.4	2267.7	2700.3	2473.8	2000.7	2081.8	2149.4
77.5°	1111.9	973.3	1138.9	1426.2	1612.0	1953.4	2416.4	2196.7	1733.7	1726.9	1591.8
80°	770.5	689.4	926.0	1149.0	1247.0	1642.5	2108.8	1885.8	1412.7	1318.0	1260.5
82.5°	463.0	449.5	692.8	858.4	882.1	1267.3	1747.2	1581.7	1155.8	1007.1	1013.8
85°	253.5	267.0	442.7	503.6	513.7	885.5	1368.7	1223.4	888.8	746.9	753.7
87.5°	70.9	91.2	162.3	199.4	246.7	459.6	814.5	726.6	446.1	310.9	310.9
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)