

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: P968788

Luminaire Tested: **NAV-SB5C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

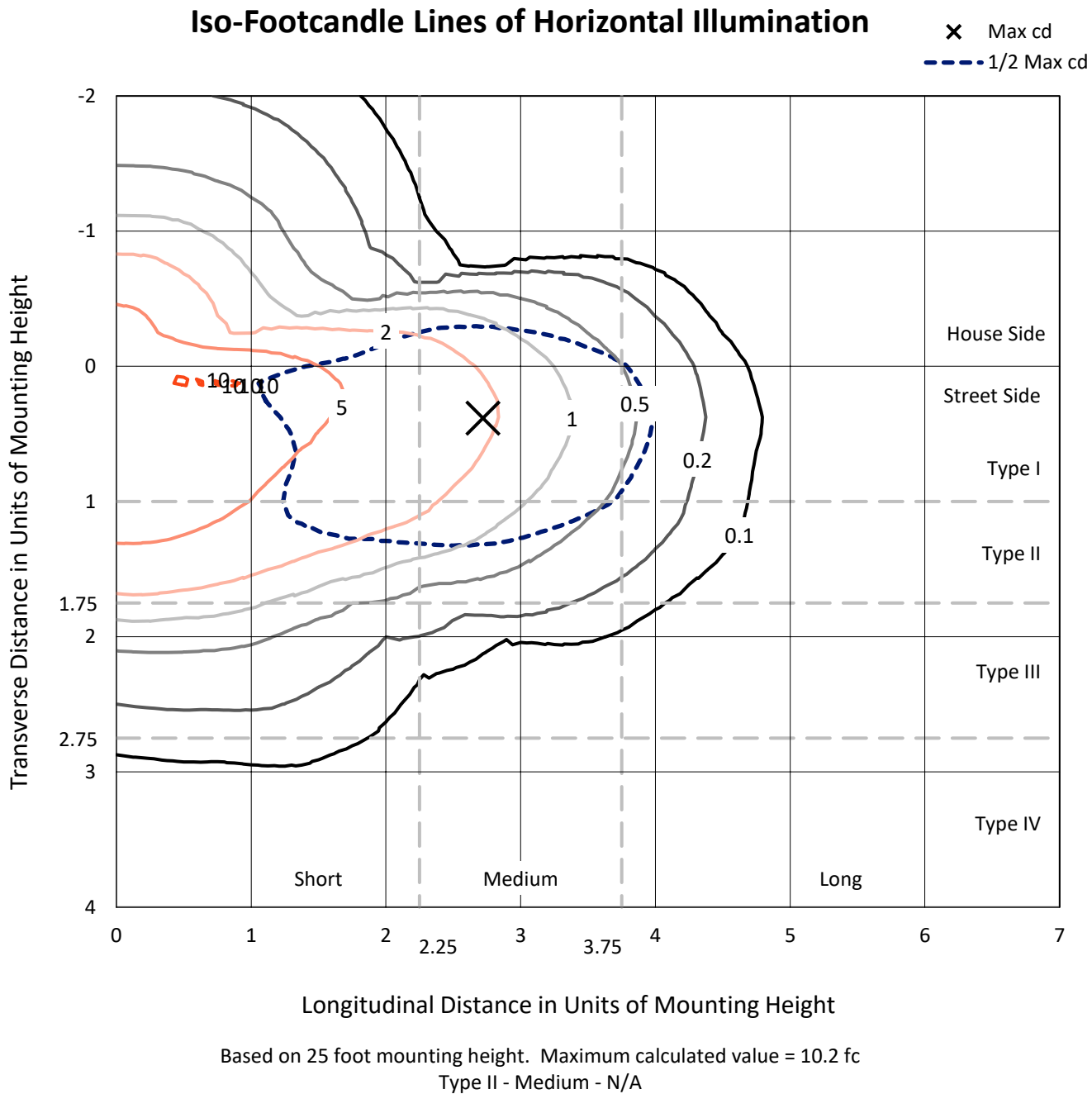
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38421.1 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 249.5
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

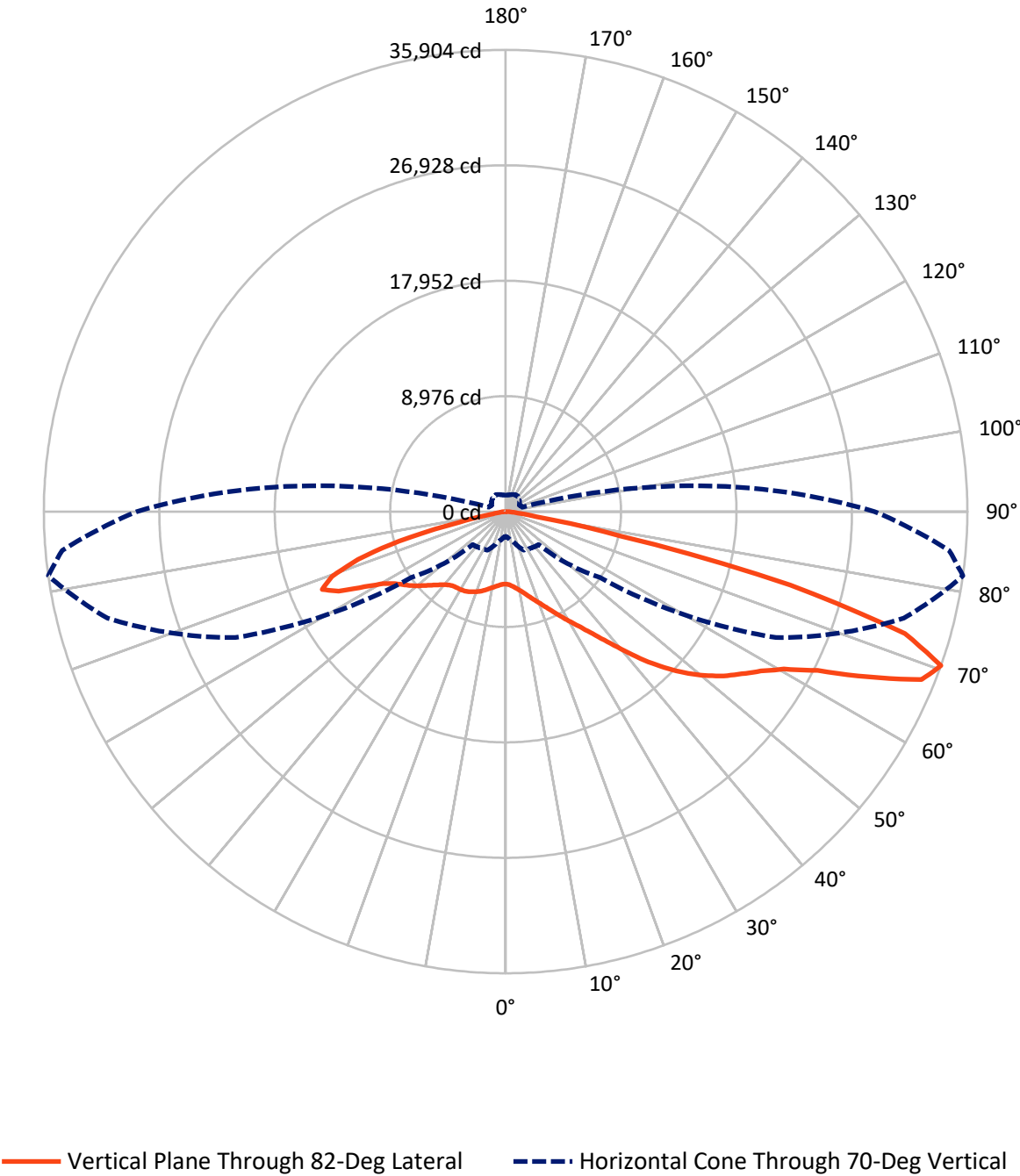


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9471.7	0.0	9471.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28949.4	0.0	28949.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	38421.1	0.0	38421.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.9	1.4
10°-20°	1528.1	4.0
20°-30°	2556.3	6.7
30°-40°	3993.6	10.4
40°-50°	6360.2	16.6
50°-60°	8851.0	23.0
60°-70°	9258.6	24.1
70°-80°	4839.0	12.6
80°-90°	502.5	1.3
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°	38421.1	100.0
0°-180°	38421.1	100.0

Coefficient of Utilization



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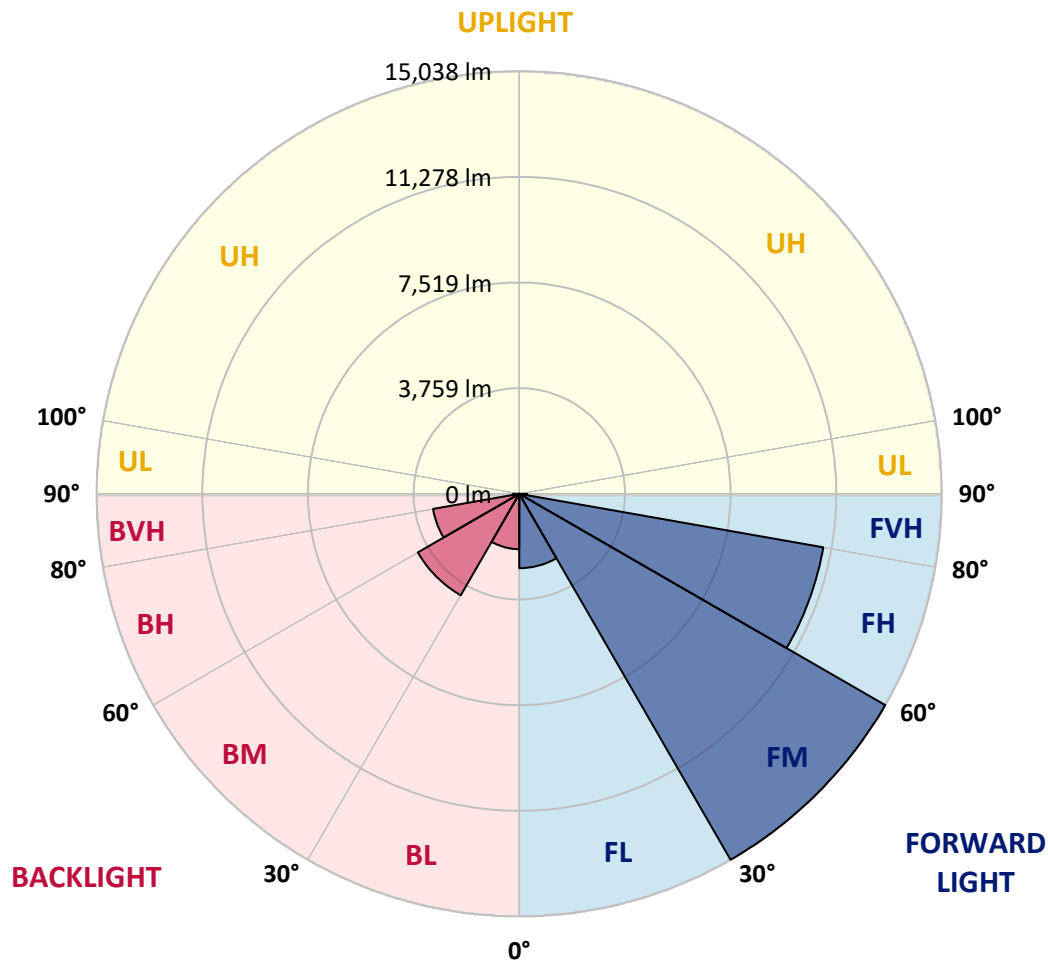
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2645.7	6.9			
FM	(30°-60°)	15037.6	39.1			
FH	(60°-80°)	10984.7	28.6			G4/12000
FVH	(80°-90°)	281.3	0.7			G3/500
BL	(0°-30°)	1970.5	5.1	B3/2500		
BM	(30°-60°)	4167.2	10.8	B3/5000		
BH	(60°-80°)	3112.9	8.1	B4/5000		G4/5000
BVH	(80°-90°)	221.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0
2.5°	5767.6	5800.2	5790.0	5779.8	5779.8	5765.5	5763.5	5743.1	5726.8	5700.3	5694.2
5°	5841.0	5875.6	5871.5	5879.7	5906.2	5912.3	5918.5	5906.2	5873.6	5841.0	5826.7
7.5°	5775.8	5814.4	5826.7	5875.6	5957.2	6030.6	6085.6	6108.1	6077.4	6030.6	6008.1
10°	5555.5	5598.3	5641.2	5757.4	5902.2	6075.4	6222.2	6309.9	6303.7	6258.9	6220.2
12.5°	5109.0	5153.9	5245.6	5472.0	5737.0	6042.8	6315.9	6499.5	6562.7	6530.1	6462.7
15°	4752.3	4791.1	4860.3	5092.7	5437.3	5902.2	6350.7	6707.4	6868.5	6850.2	6768.6
17.5°	4742.1	4758.4	4801.2	4911.3	5176.4	5682.0	6314.0	6911.3	7219.2	7217.1	7115.1
20°	4921.5	4927.6	4952.1	4974.5	5125.4	5514.8	6220.2	7080.5	7612.6	7612.6	7502.5
22.5°	5170.2	5166.1	5190.6	5170.2	5243.6	5500.5	6161.1	7229.3	8051.0	8083.6	7945.0
25°	5543.3	5522.9	5516.8	5469.9	5484.2	5633.0	6226.3	7398.6	8570.8	8638.1	8464.9
27.5°	6040.7	6008.1	5985.7	5877.7	5841.0	5906.2	6426.0	7602.4	9149.9	9266.0	9045.8
30°	6689.0	6629.9	6597.3	6409.7	6277.2	6287.5	6727.8	7873.5	9755.3	9942.9	9663.6
32.5°	7573.9	7482.2	7394.5	7086.6	6844.0	6764.5	7117.2	8248.7	10411.8	10711.5	10352.7
35°	8564.7	8491.3	8397.5	7922.5	7549.4	7366.0	7643.2	8772.7	11180.4	11655.4	11188.6
37.5°	9518.9	9455.6	9500.5	8860.3	8379.2	8112.2	8332.3	9476.0	12128.4	12829.7	12236.4
40°	10505.5	10456.6	10462.8	9851.2	9290.5	8990.8	9168.2	10358.8	13215.0	14226.3	13496.4
42.5°	11578.0	11541.3	11418.9	10876.6	10246.6	9967.3	10130.5	11378.1	14381.2	15816.5	14878.7
45°	12778.8	12756.3	12642.1	12020.4	11298.7	10984.7	11204.9	12503.6	15553.5	17312.9	16267.1
47.5°	13816.5	13834.8	13820.6	13296.6	12548.4	12087.6	12350.6	13677.8	16644.2	18719.7	17598.3
50°	14316.0	14411.8	14552.4	14389.4	13924.5	13455.6	13506.6	14811.4	17683.9	20038.6	18874.6
52.5°	14055.0	14236.4	14619.8	14880.7	15060.1	14962.2	14825.7	15936.8	18662.6	21229.3	20081.5
55°	13082.6	13337.4	13973.4	14603.4	15518.8	16230.4	16409.7	17184.4	19616.7	22277.2	21223.2
57.5°	11310.9	11724.8	12295.6	13569.8	15111.1	16844.0	18256.8	18915.4	20627.9	23396.4	22417.9
60°	8273.2	8827.7	9537.2	11433.2	13684.0	16515.7	19828.7	21573.9	22065.2	24846.0	23973.4
62.5°	5294.5	5637.1	6289.5	8075.5	10662.6	14833.8	20309.9	24896.9	24501.5	27223.2	26305.7
65°	3624.9	3845.1	4442.3	5445.4	6892.9	11041.8	19021.3	27388.3	28371.0	30990.8	30293.5
67.5°	2634.0	2801.2	3310.9	4189.6	4491.3	6534.2	14760.4	27274.1	32132.4	34872.4	33787.9
70°	1920.4	2038.7	2466.9	3310.9	3455.7	3635.1	8941.9	23184.5	32050.9	35904.1	34605.4
72.5°	1423.0	1504.6	1792.0	2568.8	2797.1	2454.7	4426.1	16850.1	27541.2	32475.0	31433.2
75°	1029.5	1090.7	1302.8	1965.3	2238.5	1869.5	2208.0	9847.1	19211.0	22844.0	23027.4
77.5°	787.0	833.8	972.5	1439.3	1792.0	1402.6	1370.0	4530.1	9109.1	9153.9	9667.7
80°	632.0	662.6	738.0	1013.2	1374.1	1049.9	893.0	1828.7	2878.7	2436.3	2556.6
82.5°	464.8	515.8	623.8	711.6	982.7	723.8	544.4	923.5	1094.8	941.9	950.1
85°	265.1	299.7	377.2	509.7	627.9	442.4	311.9	409.8	509.7	417.9	373.1
87.5°	93.8	122.3	132.5	199.8	273.2	183.5	120.3	118.3	167.2	124.3	103.9
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°	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0	5633.0
2.5°	5673.8	5663.6	5622.8	5567.8	5510.7	5455.7	5437.3	5398.6	5372.0	5357.8	5374.1
5°	5788.0	5755.4	5659.5	5537.2	5408.7	5270.1	5172.3	5082.6	5017.3	4956.2	4980.6
7.5°	5951.0	5894.0	5728.8	5514.8	5286.4	5056.0	4884.8	4754.4	4666.6	4609.5	4621.8
10°	6140.7	6053.0	5800.2	5480.1	5127.4	4797.1	4595.3	4483.1	4428.1	4397.6	4405.7
12.5°	6358.8	6234.5	5873.6	5400.6	4884.8	4507.6	4369.0	4336.4	4338.4	4340.5	4344.6
15°	6628.0	6454.6	5932.7	5227.3	4568.8	4285.4	4260.9	4313.9	4369.0	4395.5	4393.5
17.5°	6931.7	6687.0	5943.0	4941.9	4258.9	4142.7	4220.1	4334.3	4418.0	4454.6	4462.7
20°	7257.9	6923.6	5869.5	4538.2	4004.1	4026.5	4165.1	4311.9	4403.7	4450.5	4462.7
22.5°	7630.9	7176.3	5694.2	4114.1	3796.1	3900.1	4063.2	4205.9	4301.7	4348.6	4360.9
25°	8057.1	7459.7	5419.0	3757.3	3616.7	3757.3	3920.5	4038.7	4116.2	4159.0	4171.2
27.5°	8530.0	7755.4	5052.0	3474.0	3459.7	3610.6	3745.1	3836.9	3877.7	3910.3	3922.5
30°	9005.0	8024.4	4607.6	3259.9	3323.2	3465.8	3561.7	3602.5	3614.7	3620.8	3635.1
32.5°	9518.9	8256.9	4140.7	3082.6	3192.7	3325.2	3382.3	3400.6	3343.6	3304.8	3317.0
35°	10140.6	8505.6	3684.0	2941.9	3064.2	3178.4	3196.8	3180.4	3113.1	3033.6	3037.7
37.5°	10909.3	8815.5	3319.1	2842.0	2943.9	3019.3	2996.9	2992.9	2998.9	2905.2	2911.3
40°	11851.2	9219.2	3051.9	2764.5	2846.1	2862.4	2799.2	2833.8	2864.5	2721.7	2725.8
42.5°	12897.1	9706.4	2882.8	2711.5	2764.5	2725.8	2627.9	2666.6	2662.5	2475.1	2473.0
45°	13963.3	10236.5	2823.7	2672.8	2689.1	2611.6	2503.6	2513.7	2428.1	2258.9	2265.0
47.5°	15023.4	10805.2	2860.4	2640.2	2595.3	2507.7	2424.0	2379.2	2252.8	2126.4	2126.4
50°	16063.2	11402.6	2994.8	2574.9	2466.9	2415.9	2354.7	2275.2	2140.7	2032.6	2024.5
52.5°	17027.5	12004.1	3145.7	2466.9	2305.8	2336.4	2297.6	2205.9	2073.4	1963.3	1965.3
55°	17940.9	12605.4	3204.9	2318.0	2155.0	2267.1	2244.6	2075.4	1916.4	1826.7	1818.6
57.5°	18935.7	13329.2	3139.7	2128.4	2032.6	2187.6	2102.0	1914.4	1822.7	1755.3	1749.3
60°	20314.0	14464.8	2998.9	1894.0	1916.4	2069.3	1922.5	1845.1	1745.2	1669.7	1665.6
62.5°	22603.4	16583.1	2772.6	1661.5	1779.8	1894.0	1836.9	1759.4	1657.5	1584.1	1584.1
65°	25987.7	19527.0	2346.5	1480.1	1626.9	1722.7	1745.2	1667.7	1561.7	1484.2	1488.3
67.5°	28842.0	21374.0	1775.7	1329.2	1470.0	1584.1	1647.3	1571.8	1459.7	1384.3	1386.3
70°	28684.9	20032.6	1355.8	1180.4	1331.3	1447.5	1529.1	1470.0	1349.6	1278.3	1284.4
72.5°	25478.0	16758.3	1096.9	1029.5	1190.6	1304.8	1402.6	1357.8	1235.4	1166.1	1166.1
75°	18717.6	11895.9	876.7	876.7	1015.3	1156.0	1264.0	1235.4	1123.3	1074.4	1060.2
77.5°	7889.9	4990.8	687.1	727.9	844.0	992.8	1127.4	1137.6	1039.8	1101.0	999.0
80°	2097.9	1376.2	524.0	572.9	662.6	819.6	980.6	976.5	870.5	813.4	756.3
82.5°	799.2	542.3	373.1	403.6	479.1	627.9	776.7	801.2	695.3	601.5	601.5
85°	307.8	232.4	230.4	242.6	279.3	415.9	587.1	607.5	524.0	444.4	458.7
87.5°	79.5	69.3	85.6	81.6	128.4	222.2	336.4	348.6	320.1	185.5	265.1
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)