

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: P971550

Luminaire Tested: **NAV-SB6D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56463.2 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

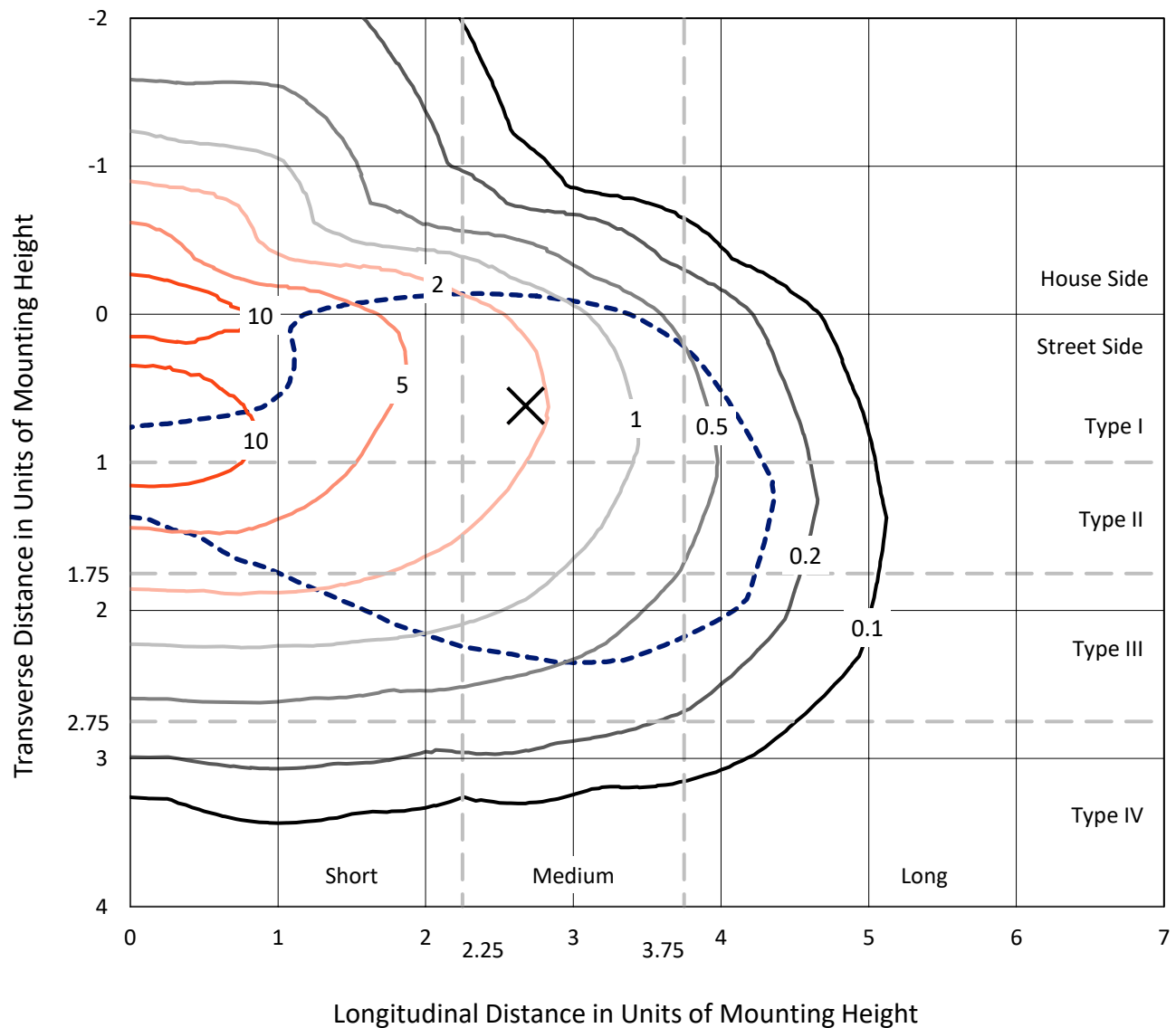


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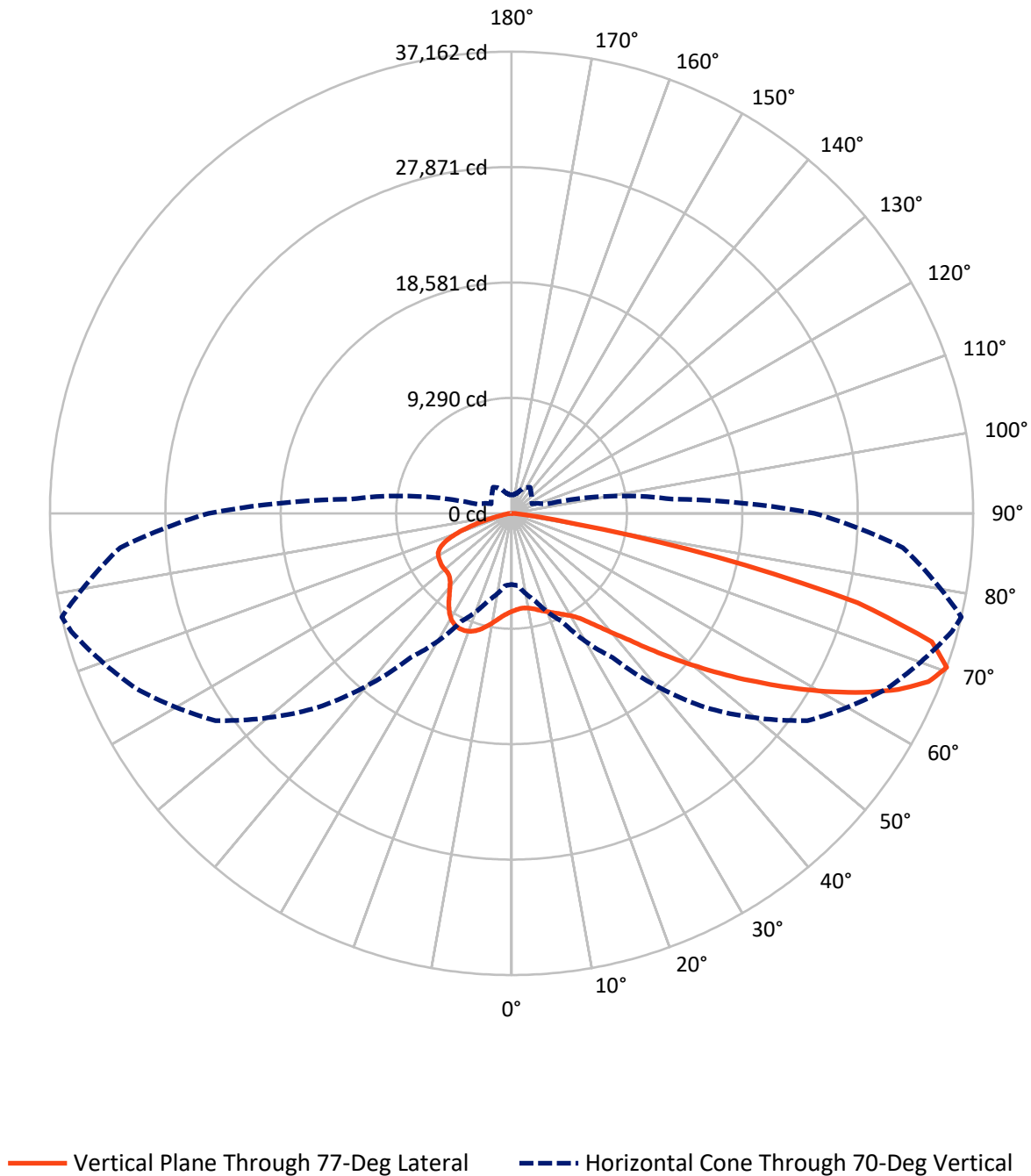
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12364.5	0.0	12364.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	44098.6	0.0	44098.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	56463.2	0.0	56463.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.3	1.3
10°-20°	2168.2	3.8
20°-30°	3708.0	6.6
30°-40°	5962.8	10.6
40°-50°	9309.5	16.5
50°-60°	12435.3	22.0
60°-70°	13254.1	23.5
70°-80°	8159.1	14.5
80°-90°	715.0	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°	56463.2	100.0
0°-180°	56463.2	100.0

Coefficient of Utilization



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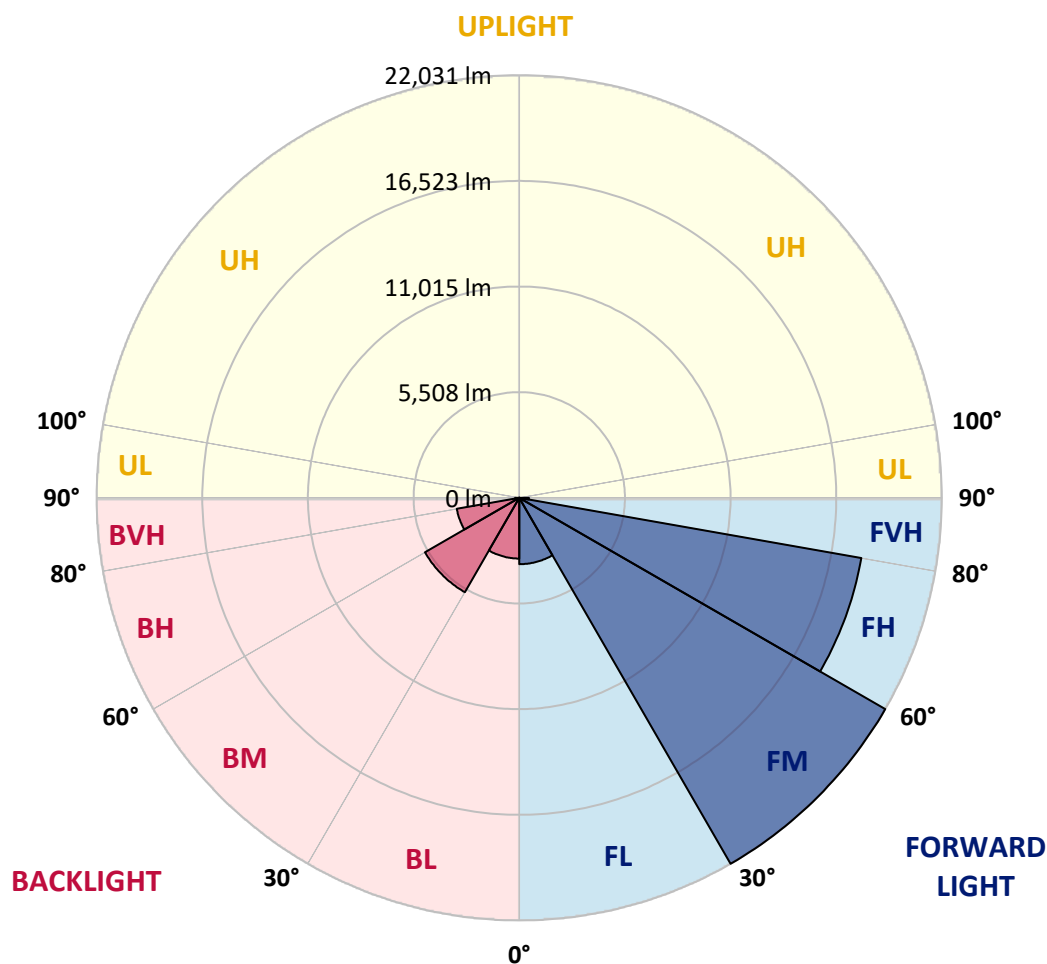
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3459.3	6.1			
FM	(30°-60°)	22030.7	39.0			
FH	(60°-80°)	18108.7	32.1			G5
FVH	(80°-90°)	499.9	0.9			G3/500
BL	(0°-30°)	3168.2	5.6	B4/5000		
BM	(30°-60°)	5676.8	10.1	B4/8500		
BH	(60°-80°)	3304.5	5.9	B4/5000		G4/5000
BVH	(80°-90°)	215.0	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1
2.5°	7261.2	7258.3	7295.8	7307.4	7376.8	7426.0	7518.6	7616.9	7744.1	7758.5	7836.6
5°	6841.9	6841.9	6885.2	6931.6	7021.1	7119.4	7261.2	7431.8	7651.5	7686.3	7880.0
7.5°	6486.2	6509.4	6546.9	6636.6	6740.7	6882.4	7099.3	7342.2	7631.3	7686.3	7998.6
10°	6199.9	6226.0	6272.2	6344.5	6500.7	6697.2	6980.7	7293.0	7680.5	7767.2	8172.1
12.5°	6110.2	6136.3	6162.3	6217.2	6361.9	6593.2	6931.6	7316.1	7799.0	7885.8	8409.2
15°	6318.5	6350.3	6330.0	6315.5	6390.8	6601.8	6954.6	7400.0	7946.5	8070.8	8701.2
17.5°	6798.5	6810.1	6763.8	6627.9	6616.3	6729.1	7064.5	7515.6	8131.6	8267.5	8996.2
20°	7573.5	7553.2	7457.8	7188.8	7035.6	7012.5	7252.5	7689.1	8322.5	8467.0	9314.3
22.5°	8626.1	8602.9	8412.1	7987.0	7645.8	7420.2	7524.3	7914.7	8536.4	8698.4	9623.7
25°	9938.9	9907.1	9626.6	9048.3	8519.1	7961.0	7894.4	8212.6	8799.6	8950.0	9947.6
27.5°	11471.6	11445.6	11142.0	10378.5	9615.1	8701.2	8354.3	8562.4	9074.3	9244.9	10312.0
30°	13119.9	13195.0	12657.2	11835.9	10870.1	9667.1	8973.1	8993.3	9430.0	9583.2	10754.4
32.5°	15057.4	15187.4	14539.7	13498.6	12180.1	10716.8	9753.9	9594.8	9947.6	10074.8	11312.5
35°	16977.5	17125.0	16587.1	15436.2	13918.0	11954.5	10569.4	10286.0	10635.8	10774.7	12052.8
37.5°	18637.4	18834.0	18556.4	17555.8	15777.4	13446.7	11633.5	11098.5	11483.2	11656.6	13047.5
40°	19947.3	20248.1	20227.8	19603.1	17969.4	15256.8	12984.0	12102.0	12535.7	12723.7	14253.4
42.5°	21011.5	21271.7	21497.2	21465.4	20256.7	17312.9	14571.5	13406.2	13735.8	13952.7	15609.6
45°	21746.0	22023.6	22509.4	23032.8	22457.3	19513.5	16390.5	14953.2	15253.9	15580.7	17226.1
47.5°	22402.4	22717.6	23348.0	24177.9	24325.4	21722.8	18382.9	16754.8	17029.6	17367.8	18848.4
50°	22460.2	22732.0	23709.5	24886.4	25652.7	23845.4	20522.8	18776.2	19033.5	19394.9	20586.4
52.5°	21063.5	21491.5	23197.6	24866.2	26262.9	25620.9	22648.2	20878.4	21167.6	21601.4	22385.1
55°	16350.0	16977.5	21696.8	24091.2	26046.0	26768.9	24669.5	23113.7	23483.9	23937.8	24195.2
57.5°	14082.8	14357.6	17223.3	22680.0	25057.0	27066.8	26375.6	25372.2	25967.9	26465.3	26109.6
60°	12657.2	12885.7	14580.2	20485.1	23755.7	26595.4	27694.3	27477.4	28506.9	29099.6	28067.3
62.5°	11130.4	11347.3	12888.6	17104.7	22090.1	25811.8	28527.1	29420.7	31109.5	31757.2	29912.3
65°	9615.1	9800.1	11277.9	14372.0	19973.4	25028.0	28958.0	31100.8	33518.2	34189.2	31444.8
67.5°	7926.3	8079.6	9476.2	12125.1	17399.7	23955.3	29172.0	32422.3	35614.8	36190.3	32202.5
70°	5719.9	5838.4	7281.4	9589.1	14169.6	22110.3	29085.2	33359.2	36702.1	37161.9	31630.0
72.5°	2703.7	2810.8	4505.4	6226.0	10008.3	18518.8	27329.9	32616.0	35597.4	35369.0	28125.2
75°	1443.0	1535.6	2588.1	3415.2	5286.1	12694.7	22364.8	28096.3	29892.0	28781.6	20785.9
77.5°	977.4	1049.7	1602.1	2050.2	2414.6	6026.4	14374.9	19452.8	18715.4	16882.1	10410.3
80°	775.0	850.1	1312.8	1388.1	1168.3	2177.5	5939.7	9004.9	6468.9	5173.4	2961.1
82.5°	595.7	679.6	1104.6	1006.3	636.2	893.6	1729.3	2848.4	1657.0	1260.9	717.2
85°	364.4	454.0	867.6	642.0	358.5	407.7	587.0	792.3	506.0	422.2	257.4
87.5°	185.1	260.2	439.5	234.2	162.0	95.4	156.1	156.1	133.0	115.6	66.5
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°	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1	7877.1
2.5°	7906.0	7963.8	8062.2	8154.7	8227.1	8296.5	8365.8	8403.5	8414.9	8461.3	8487.3
5°	7998.6	8105.6	8296.5	8475.7	8588.5	8657.9	8707.1	8736.0	8741.7	8756.2	8779.3
7.5°	8169.1	8339.8	8605.8	8785.2	8869.0	8863.2	8843.0	8770.7	8741.7	8715.8	8721.5
10°	8409.2	8634.8	8961.6	9085.9	9033.8	8895.1	8715.8	8504.6	8406.3	8310.9	8282.0
12.5°	8707.1	8993.3	9314.3	9308.5	9051.2	8695.5	8279.0	7955.2	7749.9	7602.4	7567.7
15°	9068.5	9398.2	9644.0	9447.3	8883.5	8244.4	7634.2	7212.0	7027.0	6865.0	6847.6
17.5°	9441.6	9794.4	9907.1	9404.0	8461.3	7576.4	6885.2	6552.7	6370.5	6283.8	6309.8
20°	9806.0	10155.8	10063.2	9155.3	7819.3	6818.7	6202.8	6020.6	5983.0	6003.2	5994.6
22.5°	10190.6	10502.9	10095.1	8675.3	7001.0	6043.7	5705.5	5711.2	5795.0	5855.8	5870.3
25°	10583.8	10794.9	10011.3	7981.3	6121.8	5474.1	5390.3	5482.7	5647.5	5766.1	5797.9
27.5°	10962.6	11055.1	9829.0	7122.4	5367.1	5066.4	5080.8	5271.7	5520.3	5685.2	5725.6
30°	11390.6	11286.5	9479.2	6156.6	4843.6	4716.4	4837.9	5060.5	5309.3	5456.7	5491.4
32.5°	11873.5	11486.0	8924.0	5263.0	4473.5	4435.9	4635.5	4780.1	4890.0	4933.3	4956.5
35°	12475.0	11766.5	8212.6	4635.5	4141.0	4230.6	4421.4	4349.2	4305.8	4282.7	4305.8
37.5°	13255.8	12145.3	7379.7	4227.7	3872.0	4083.2	4161.2	3935.7	3765.0	3681.2	3701.5
40°	14195.6	12700.6	6578.8	3912.5	3701.5	3955.9	3820.0	3548.1	3331.2	3212.8	3221.4
42.5°	15239.5	13281.8	5904.9	3675.4	3606.1	3851.8	3568.4	3244.5	2894.6	2857.1	2894.6
45°	16335.5	13880.3	5445.2	3493.2	3559.7	3762.2	3423.8	2900.4	2651.8	2805.0	2886.0
47.5°	17431.5	14429.8	5167.5	3357.3	3536.7	3661.0	3296.6	2709.6	2533.2	2755.8	2860.0
50°	18651.8	14921.4	5043.2	3259.0	3510.6	3620.5	3105.7	2660.4	2408.9	2556.4	2666.2
52.5°	19863.5	15303.1	4950.6	3160.7	3473.0	3588.6	3013.2	2602.6	2258.5	2267.1	2327.9
55°	21072.2	15551.8	4849.5	3030.5	3389.2	3519.2	3004.5	2538.9	2145.6	2105.1	2134.2
57.5°	22361.9	15693.6	4725.1	2886.0	3244.5	3342.8	2995.9	2489.8	2111.0	2044.5	2053.2
60°	23674.7	15901.7	4563.2	2709.6	3050.8	3131.8	2975.6	2472.4	2090.7	1977.9	1986.7
62.5°	24851.7	15974.0	4369.5	2541.9	2802.1	2923.6	2932.2	2458.0	2035.8	1842.0	1842.0
65°	25623.8	15661.7	4031.1	2351.0	2533.2	2709.6	2848.4	2408.9	1937.5	1743.7	1743.7
67.5°	25592.0	14771.1	3501.9	2105.1	2272.9	2472.4	2726.9	2325.0	1818.9	1622.3	1631.0
70°	24400.5	13012.9	2831.0	1818.9	1986.7	2218.0	2570.8	2200.6	1677.2	1489.2	1506.6
72.5°	20927.6	10184.7	2056.0	1483.5	1654.0	1954.8	2368.4	2050.2	1532.6	1370.7	1362.0
75°	14950.3	6445.7	1393.8	1139.4	1286.8	1657.0	2116.7	1873.8	1399.6	1376.5	1298.4
77.5°	7637.1	3079.7	922.5	832.8	896.5	1307.1	1778.4	1674.3	1419.8	1136.4	1012.1
80°	2484.0	1136.4	581.3	566.8	595.7	870.4	1376.5	1373.6	1075.7	772.1	682.4
82.5°	792.3	488.7	378.8	364.4	349.9	546.5	960.0	1087.3	725.8	488.7	485.8
85°	315.2	292.0	222.6	205.3	147.5	257.4	503.2	722.9	540.8	352.8	361.5
87.5°	115.6	115.6	60.7	43.4	31.8	86.7	135.9	216.9	309.4	182.1	179.3
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)