

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: P883917

Luminaire Tested: **NAV-SB4C-727-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27253 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

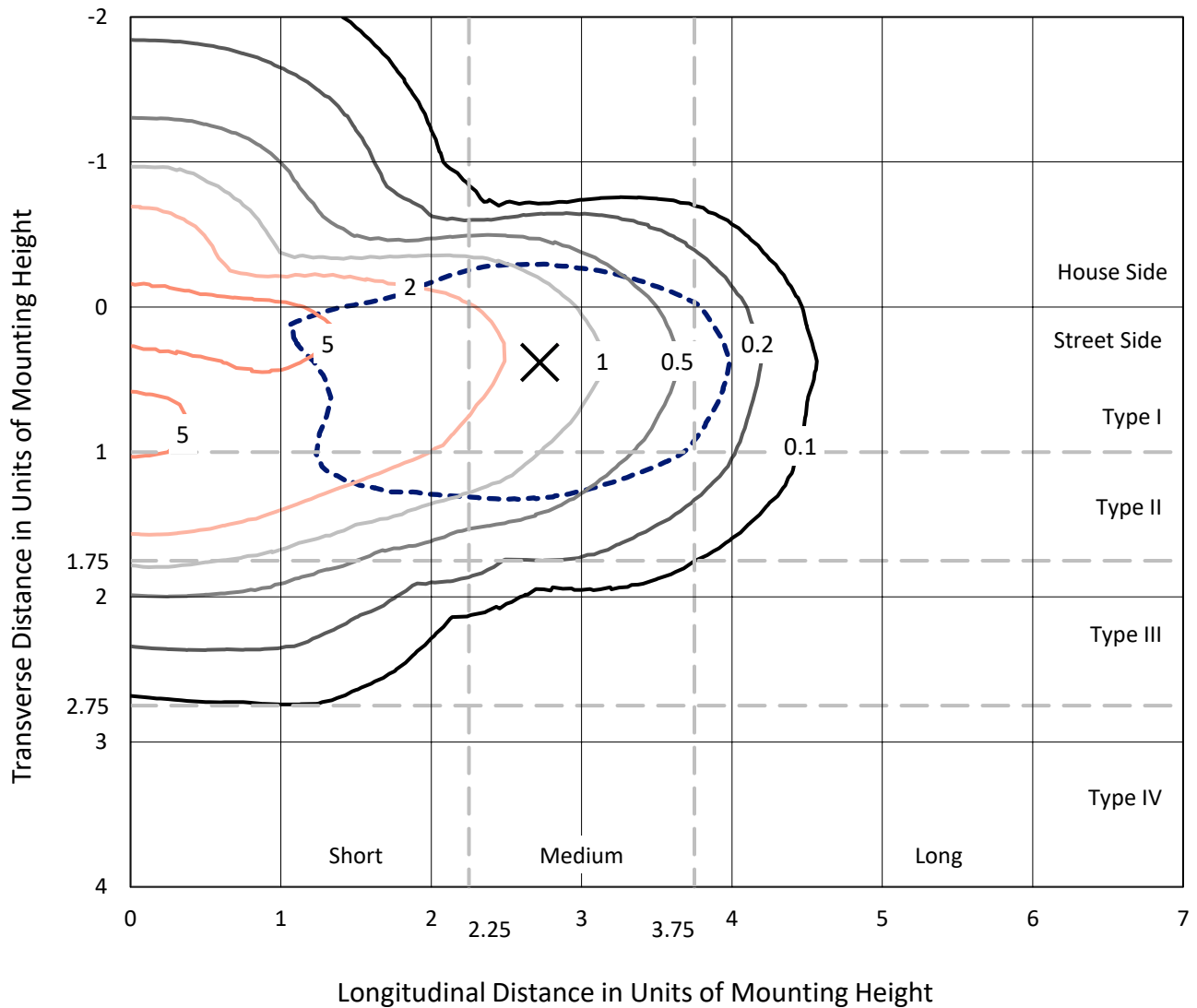
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

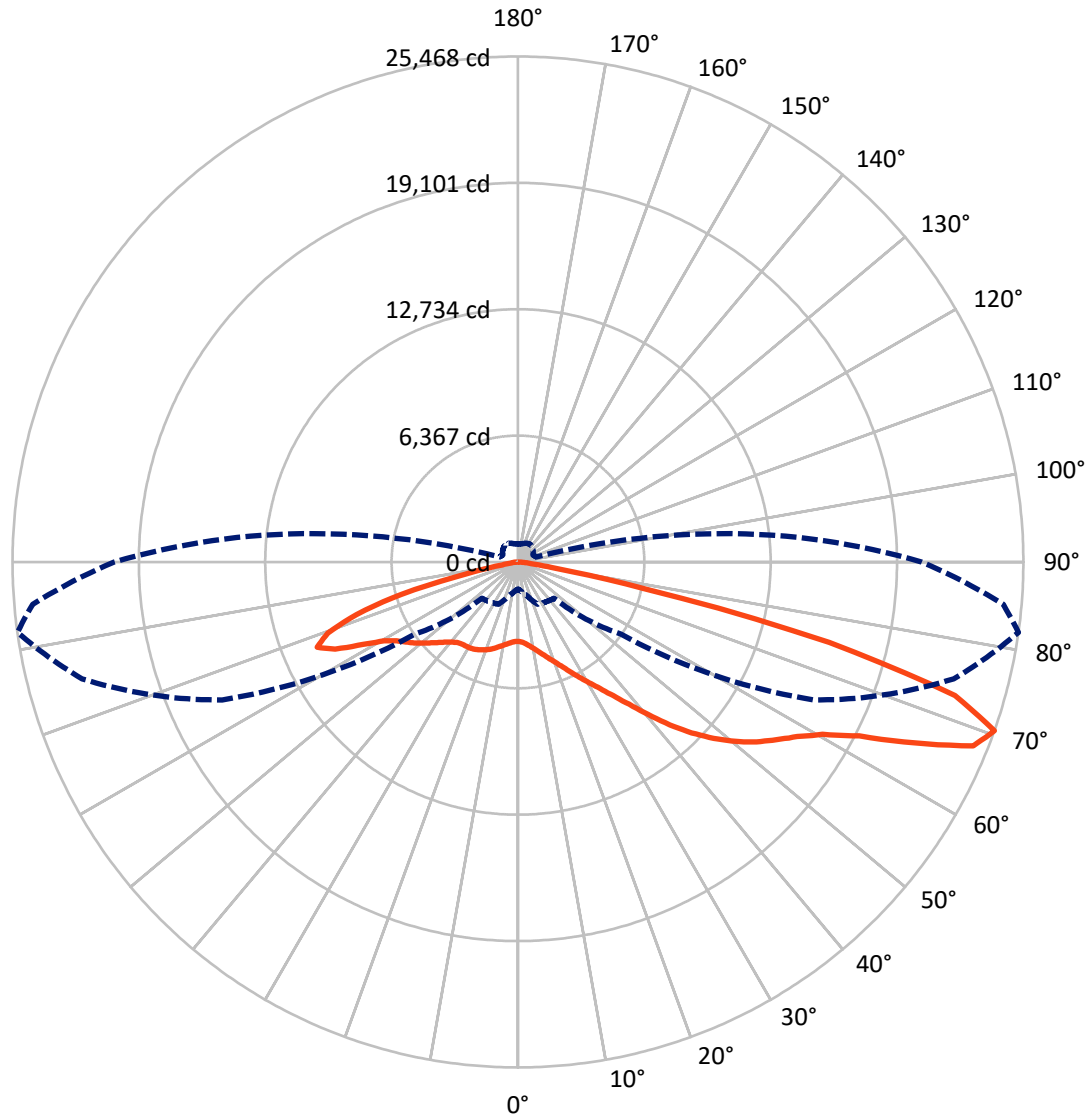
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6718.5	0.0	6718.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20534.5	0.0	20534.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	27253.0	0.0	27253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.3	1.4
10°-20°	1083.9	4.0
20°-30°	1813.2	6.7
30°-40°	2832.7	10.4
40°-50°	4511.5	16.6
50°-60°	6278.2	23.0
60°-70°	6567.3	24.1
70°-80°	3432.4	12.6
80°-90°	356.4	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°	27253.0	100.0
0°-180°	27253.0	100.0

Coefficient of Utilization

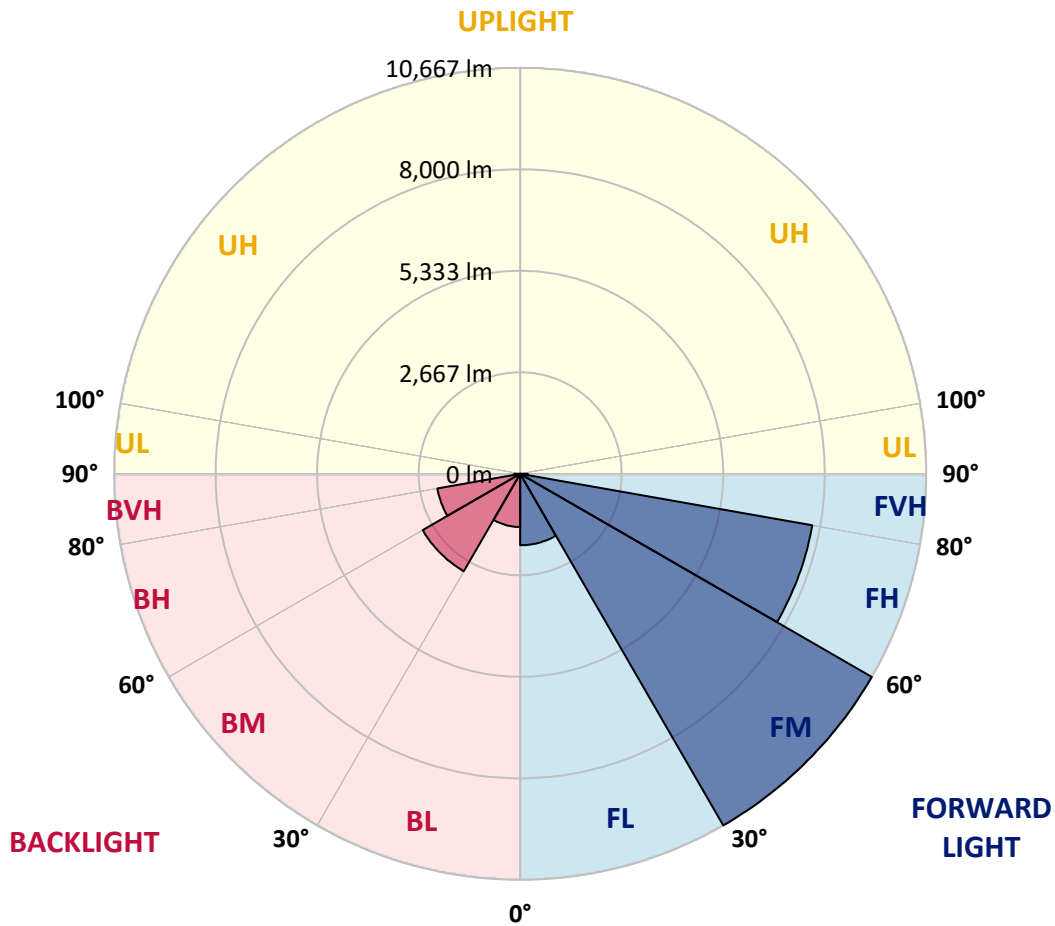


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.7	6.9			
FM (30°-60°)	10666.6	39.1			
FH (60°-80°)	7791.7	28.6			G4/12000
FVH (80°-90°)	199.5	0.7			G2/225
BL (0°-30°)	1397.7	5.1	B3/2500		
BM (30°-60°)	2955.9	10.8	B3/5000		
BH (60°-80°)	2208.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	156.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6
2.5°	4091.1	4114.2	4107.0	4099.8	4099.8	4089.6	4088.2	4073.7	4062.2	4043.4	4039.0
5°	4143.1	4167.7	4164.8	4170.6	4189.4	4193.7	4198.1	4189.4	4166.3	4143.1	4133.0
7.5°	4096.9	4124.3	4133.0	4167.7	4225.6	4277.6	4316.7	4332.6	4310.9	4277.6	4261.7
10°	3940.7	3971.0	4001.4	4083.8	4186.5	4309.4	4413.6	4475.7	4471.4	4439.6	4412.1
12.5°	3624.0	3655.8	3720.9	3881.4	4069.4	4286.3	4480.1	4610.2	4655.1	4631.9	4584.2
15°	3370.9	3398.4	3447.6	3612.4	3856.8	4186.5	4504.7	4757.7	4872.0	4859.0	4801.1
17.5°	3363.7	3375.2	3405.6	3483.7	3671.7	4030.3	4478.6	4902.3	5120.7	5119.3	5047.0
20°	3490.9	3495.3	3512.6	3528.5	3635.5	3911.8	4412.1	5022.4	5399.8	5399.8	5321.7
22.5°	3667.4	3664.5	3681.8	3667.4	3719.4	3901.6	4370.2	5127.9	5710.7	5733.9	5635.5
25°	3932.0	3917.5	3913.2	3879.9	3890.1	3995.6	4416.5	5248.0	6079.5	6127.2	6004.3
27.5°	4284.9	4261.7	4245.8	4169.2	4143.1	4189.4	4558.2	5392.6	6490.2	6572.6	6416.4
30°	4744.7	4702.8	4679.6	4546.6	4452.6	4459.8	4772.2	5584.9	6919.7	7052.7	6854.6
32.5°	5372.3	5307.3	5245.1	5026.7	4854.6	4798.2	5048.4	5851.0	7385.3	7597.9	7343.4
35°	6075.2	6023.1	5956.6	5619.6	5355.0	5224.8	5421.5	6222.7	7930.5	8267.5	7936.3
37.5°	6751.9	6707.1	6738.9	6284.8	5943.6	5754.1	5910.3	6721.6	8603.0	9100.4	8679.6
40°	7451.9	7417.2	7421.5	6987.7	6590.0	6377.4	6503.2	7347.7	9373.8	10091.0	9573.3
42.5°	8212.5	8186.5	8099.7	7715.1	7268.2	7070.1	7185.8	8070.8	10200.9	11219.0	10553.8
45°	9064.3	9048.4	8967.4	8526.3	8014.4	7791.7	7947.9	8869.1	11032.5	12280.5	11538.6
47.5°	9800.4	9813.4	9803.3	9431.6	8900.9	8574.0	8760.6	9702.0	11806.1	13278.3	12482.9
50°	10154.7	10222.6	10322.4	10206.7	9877.0	9544.4	9580.5	10506.1	12543.6	14213.9	13388.2
52.5°	9969.6	10098.3	10370.1	10555.2	10682.5	10613.1	10516.2	11304.3	13237.8	15058.5	14244.3
55°	9279.8	9460.5	9911.7	10358.6	11007.9	11512.6	11639.8	12189.3	13914.6	15801.8	15054.1
57.5°	8023.1	8316.6	8721.6	9625.4	10718.6	11947.8	12950.0	13417.1	14631.8	16595.7	15901.5
60°	5868.4	6261.7	6765.0	8109.8	9706.4	11715.0	14065.0	15302.8	15651.4	17623.9	17004.9
62.5°	3755.6	3998.5	4461.3	5728.1	7563.2	10522.0	14406.3	17660.0	17379.5	19310.0	18659.3
65°	2571.2	2727.4	3151.1	3862.6	4889.3	7832.2	13492.3	19427.2	20124.2	21982.5	21487.9
67.5°	1868.4	1987.0	2348.5	2971.8	3185.8	4634.8	10469.9	19346.2	22792.3	24735.9	23966.6
70°	1362.2	1446.1	1749.8	2348.5	2451.2	2578.4	6342.7	16445.3	22734.5	25467.6	24546.4
72.5°	1009.4	1067.2	1271.1	1822.1	1984.1	1741.1	3139.5	11952.2	19535.6	23035.3	22296.3
75°	730.3	773.7	924.1	1394.1	1587.8	1326.1	1566.1	6984.8	13626.8	16203.8	16333.9
77.5°	558.2	591.5	689.8	1021.0	1271.1	994.9	971.8	3213.3	6461.3	6493.1	6857.5
80°	448.3	470.0	523.5	718.7	974.7	744.8	633.4	1297.2	2041.9	1728.1	1813.4
82.5°	329.7	365.9	442.5	504.7	697.0	513.4	386.1	655.1	776.6	668.1	673.9
85°	188.0	212.6	267.5	361.5	445.4	313.8	221.3	290.7	361.5	296.5	264.6
87.5°	66.5	86.8	94.0	141.7	193.8	130.2	85.3	83.9	118.6	88.2	73.8
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°	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6	3995.6
2.5°	4024.6	4017.3	3988.4	3949.4	3908.9	3869.8	3856.8	3829.3	3810.5	3800.4	3812.0
5°	4105.5	4082.4	4014.4	3927.7	3836.6	3738.2	3668.8	3605.2	3558.9	3515.5	3532.9
7.5°	4221.2	4180.7	4063.6	3911.8	3749.8	3586.4	3464.9	3372.4	3310.2	3269.7	3278.4
10°	4355.7	4293.5	4114.2	3887.2	3637.0	3402.7	3259.6	3180.0	3141.0	3119.3	3125.1
12.5°	4510.4	4422.2	4166.3	3830.8	3464.9	3197.4	3099.0	3075.9	3077.3	3078.8	3081.7
15°	4701.3	4578.4	4208.2	3707.9	3240.8	3039.7	3022.4	3060.0	3099.0	3117.8	3116.4
17.5°	4916.8	4743.3	4215.4	3505.4	3020.9	2938.5	2993.5	3074.5	3133.7	3159.8	3165.6
20°	5148.2	4911.0	4163.4	3219.1	2840.2	2856.1	2954.4	3058.5	3123.6	3156.9	3165.6
22.5°	5412.8	5090.3	4039.0	2918.3	2692.7	2766.4	2882.1	2983.3	3051.3	3084.6	3093.3
25°	5715.1	5291.4	3843.8	2665.2	2565.4	2665.2	2780.9	2864.8	2919.7	2950.1	2958.8
27.5°	6050.6	5501.0	3583.5	2464.2	2454.1	2561.1	2656.5	2721.6	2750.5	2773.7	2782.3
30°	6387.5	5691.9	3268.2	2312.3	2357.2	2458.4	2526.4	2555.3	2564.0	2568.3	2578.4
32.5°	6751.9	5856.8	2937.1	2186.5	2264.6	2358.6	2399.1	2412.1	2371.6	2344.2	2352.8
35°	7193.0	6033.2	2613.1	2086.8	2173.5	2254.5	2267.5	2255.9	2208.2	2151.8	2154.7
37.5°	7738.2	6253.0	2354.3	2015.9	2088.2	2141.7	2125.8	2122.9	2127.2	2060.7	2065.1
40°	8406.3	6539.4	2164.8	1960.9	2018.8	2030.4	1985.5	2010.1	2031.8	1930.6	1933.5
42.5°	9148.2	6885.0	2044.8	1923.3	1960.9	1933.5	1864.0	1891.5	1888.6	1755.6	1754.1
45°	9904.5	7261.0	2002.9	1895.9	1907.4	1852.5	1775.8	1783.1	1722.3	1602.3	1606.6
47.5°	10656.5	7664.4	2028.9	1872.7	1840.9	1778.7	1719.4	1687.6	1598.0	1508.3	1508.3
50°	11394.0	8088.2	2124.4	1826.5	1749.8	1713.7	1670.3	1613.9	1518.4	1441.8	1436.0
52.5°	12078.0	8514.8	2231.4	1749.8	1635.6	1657.3	1629.8	1564.7	1470.7	1392.6	1394.1
55°	12725.9	8941.4	2273.3	1644.2	1528.5	1608.1	1592.2	1472.2	1359.4	1295.7	1289.9
57.5°	13431.6	9454.7	2227.0	1509.7	1441.8	1551.7	1491.0	1357.9	1292.8	1245.1	1240.8
60°	14409.1	10260.2	2127.2	1343.4	1359.4	1467.8	1363.7	1308.7	1237.9	1184.4	1181.5
62.5°	16033.1	11762.7	1966.7	1178.6	1262.5	1343.4	1303.0	1248.0	1175.7	1123.6	1123.6
65°	18433.7	13850.9	1664.5	1049.9	1154.0	1222.0	1237.9	1182.9	1107.7	1052.8	1055.7
67.5°	20458.3	15161.1	1259.6	942.9	1042.7	1123.6	1168.5	1115.0	1035.4	981.9	983.4
70°	20346.9	14209.6	961.7	837.3	944.3	1026.7	1084.6	1042.7	957.3	906.7	911.1
72.5°	18072.2	11887.1	778.0	730.3	844.5	925.5	994.9	963.1	876.3	827.2	827.2
75°	13276.8	8438.1	621.8	621.8	720.2	820.0	896.6	876.3	796.8	762.1	752.0
77.5°	5596.5	3540.1	487.3	516.3	598.7	704.3	799.7	806.9	737.5	780.9	708.6
80°	1488.1	976.1	371.7	406.4	470.0	581.3	695.6	692.7	617.5	577.0	536.5
82.5°	566.9	384.7	264.6	286.3	339.8	445.4	551.0	568.3	493.1	426.6	426.6
85°	218.4	164.9	163.4	172.1	198.1	295.0	416.5	430.9	371.7	315.3	325.4
87.5°	56.4	49.2	60.7	57.8	91.1	157.6	238.6	247.3	227.0	131.6	188.0
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)