

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: P883931

Luminaire Tested: **NAV-SB4C-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29529 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

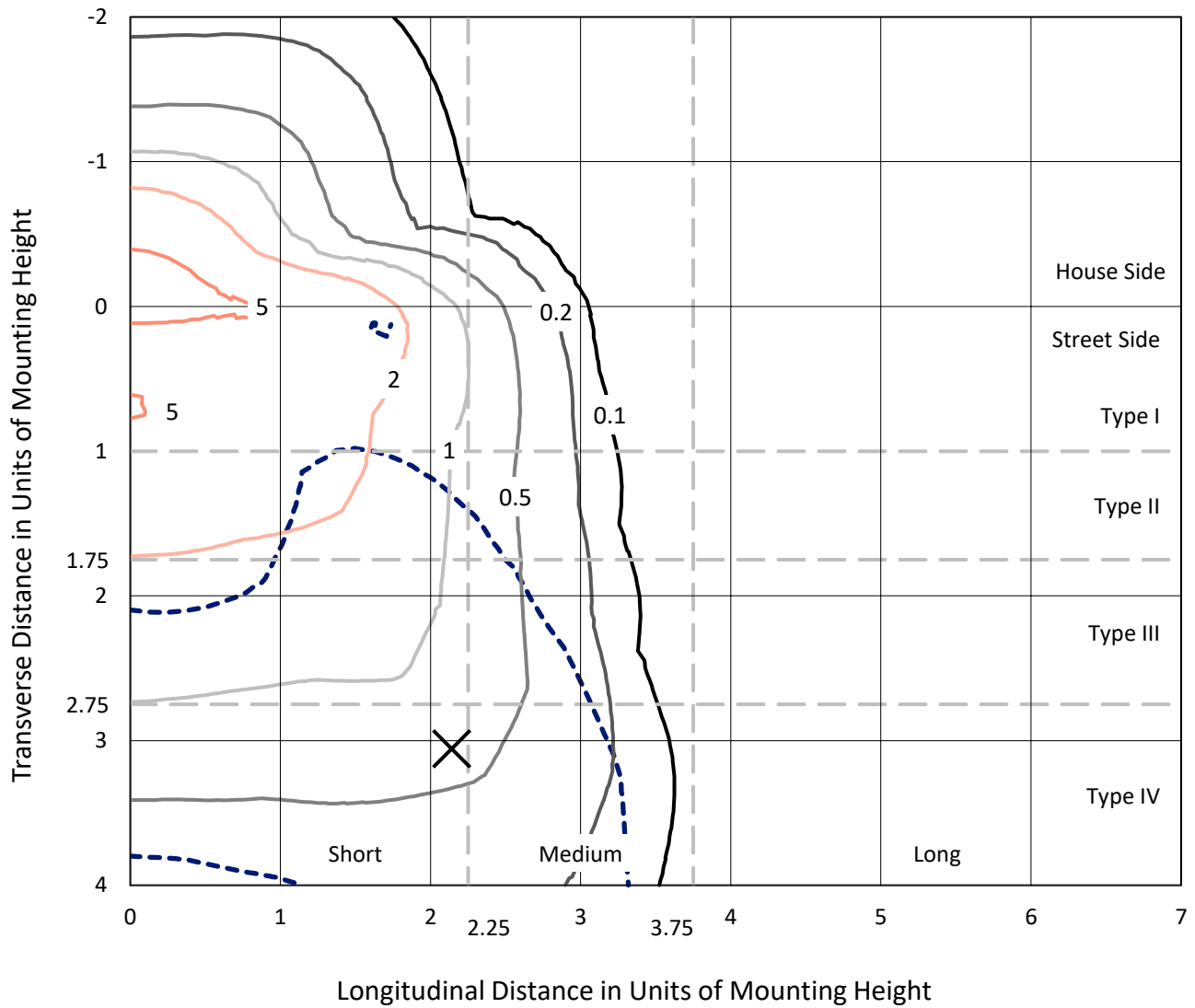
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

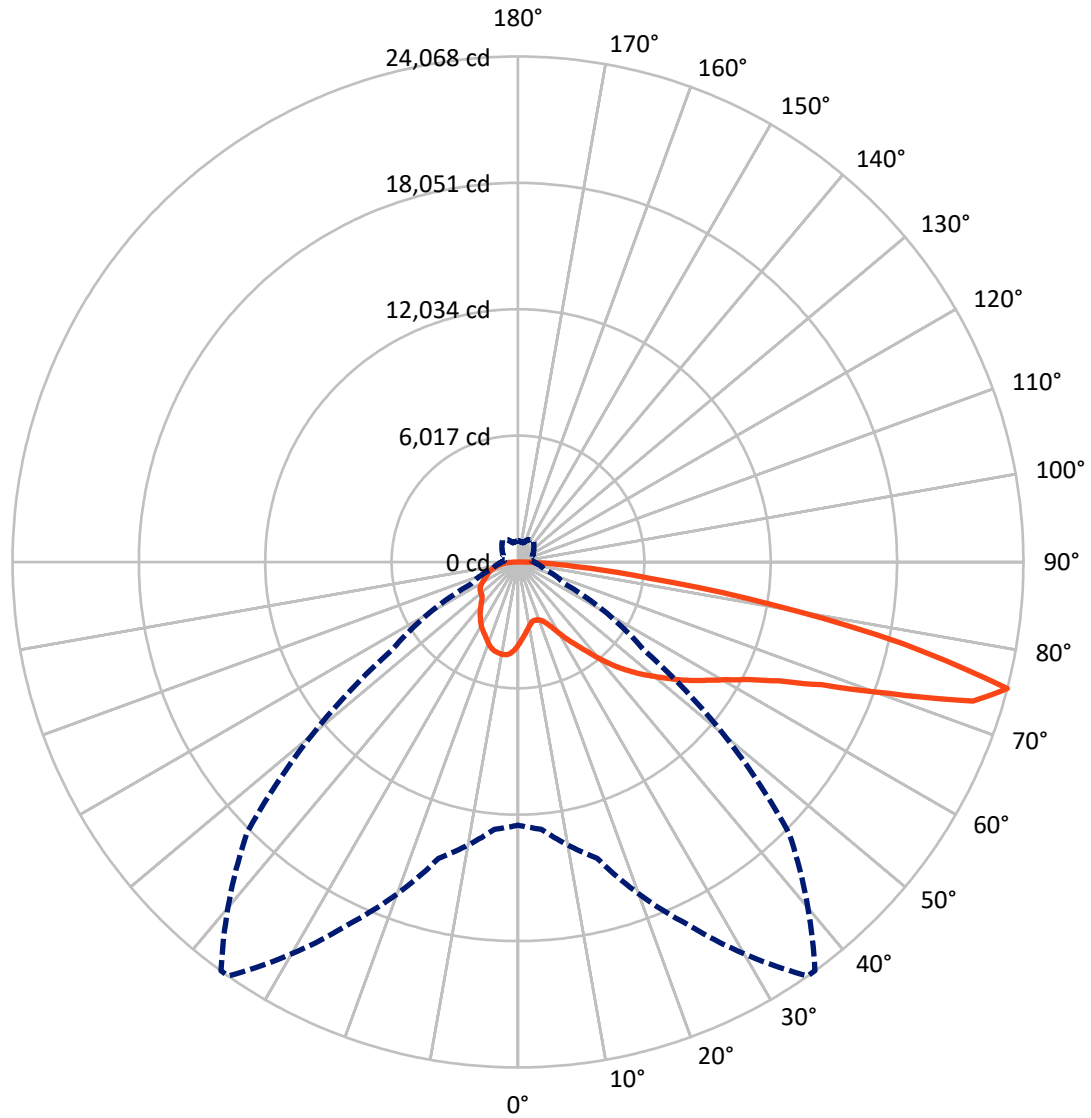
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7027.2	0.0	7027.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22501.9	0.0	22501.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	29529.0	0.0	29529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	1.3
10°-20°	1074.6	3.6
20°-30°	1804.6	6.1
30°-40°	2804.6	9.5
40°-50°	4162.7	14.1
50°-60°	5746.9	19.5
60°-70°	6972.3	23.6
70°-80°	5762.1	19.5
80°-90°	828.8	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°	29529.0	100.0
0°-180°	29529.0	100.0

Coefficient of Utilization



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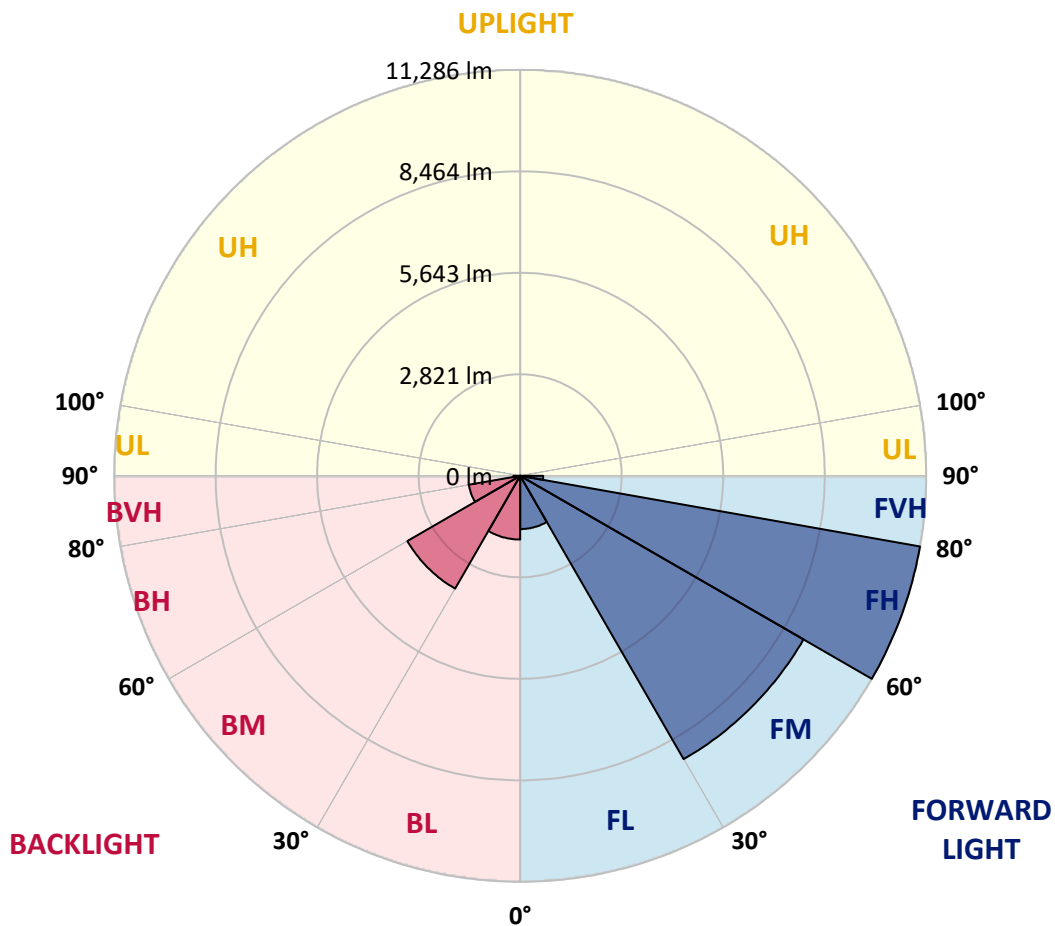
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.8	5.0			
FM (30°-60°)	9093.3	30.8			
FH (60°-80°)	11285.5	38.2			G4/12000
FVH (80°-90°)	642.1	2.2			G4/750
BL (0°-30°)	1770.9	6.0	B3/2500		
BM (30°-60°)	3620.8	12.3	B3/5000		
BH (60°-80°)	1448.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	186.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9
2.5°	3628.4	3650.8	3660.4	3655.6	3679.5	3676.3	3709.9	3751.4	3808.8	3864.7	3946.1
5°	3349.1	3373.0	3393.8	3412.9	3459.2	3473.6	3526.3	3606.1	3711.5	3818.4	3952.5
7.5°	3088.9	3109.6	3141.6	3176.7	3254.9	3269.3	3357.1	3481.6	3628.4	3784.9	3970.1
10°	2876.6	2897.3	2930.9	2970.8	3068.1	3085.7	3197.4	3363.5	3555.0	3753.0	3989.2
12.5°	2785.6	2792.0	2811.1	2851.0	2935.6	2946.8	3069.7	3259.7	3483.2	3729.0	4017.9
15°	2780.8	2793.6	2795.2	2815.9	2886.2	2890.9	3004.3	3192.6	3438.5	3724.2	4061.0
17.5°	2828.7	2838.3	2823.9	2836.7	2895.7	2903.7	2993.1	3160.7	3424.1	3745.0	4134.5
20°	2956.4	2964.4	2921.3	2903.7	2946.8	2953.2	3041.0	3181.5	3438.5	3788.1	4235.0
22.5°	3227.8	3232.6	3127.2	3055.4	3058.6	3061.7	3138.4	3266.1	3494.4	3866.3	4362.8
25°	3650.8	3647.6	3480.0	3341.1	3261.3	3243.7	3294.8	3403.4	3588.5	3970.1	4527.2
27.5°	4145.7	4121.7	3954.1	3746.6	3572.6	3547.0	3535.9	3582.2	3722.6	4107.3	4728.3
30°	4704.4	4682.0	4501.6	4230.3	3989.2	3947.7	3842.4	3818.4	3922.2	4294.1	5007.7
32.5°	5317.4	5303.0	5087.5	4758.6	4436.2	4388.3	4211.1	4147.3	4228.7	4576.7	5397.2
35°	5831.4	5818.6	5639.8	5301.4	4907.1	4848.0	4667.7	4595.8	4637.3	4939.0	5906.4
37.5°	6295.9	6289.5	6136.3	5869.7	5462.6	5390.8	5188.1	5164.1	5156.1	5416.3	6524.2
40°	6726.9	6710.9	6551.3	6410.8	6109.1	6043.7	5864.9	5844.1	5783.5	6003.8	7223.4
42.5°	7204.2	7162.7	6931.2	6865.8	6784.4	6730.1	6623.1	6626.3	6492.3	6666.2	7964.1
45°	7593.7	7569.8	7331.9	7293.6	7381.4	7359.1	7451.6	7475.6	7215.4	7360.7	8733.5
47.5°	8012.0	7989.6	7788.5	7761.3	7999.2	8005.6	8332.8	8340.8	7921.0	8082.2	9504.5
50°	8527.6	8495.6	8296.1	8329.6	8596.2	8620.2	9218.8	9164.5	8570.7	8814.9	10269.2
52.5°	8867.6	8886.7	8843.6	8897.9	9261.9	9284.2	10090.4	9951.5	9214.0	9538.0	11019.4
55°	9118.2	9156.5	9290.6	9415.1	9964.3	9986.6	10912.5	10700.2	9747.2	10208.5	11725.0
57.5°	9440.7	9386.4	9637.0	9879.7	10631.5	10690.6	11712.2	11421.7	10219.7	10786.4	12208.7
60°	9903.6	9865.3	10060.0	10419.2	11378.6	11472.8	12558.3	12071.4	10566.1	11244.5	12302.9
62.5°	10842.2	10746.5	10776.8	11094.5	12320.4	12444.9	13512.9	12638.1	10738.5	11423.3	11798.4
65°	12245.4	12081.0	11927.7	12148.0	13647.0	13769.9	14590.4	13083.5	10674.6	11076.9	10459.1
67.5°	14012.5	13849.7	13661.3	13868.9	15600.9	15698.3	15920.1	13334.1	10171.8	9742.4	8091.8
70°	15470.0	15409.3	15634.4	16488.4	18721.7	18724.9	17625.0	13126.6	8794.1	6907.3	4682.0
72.5°	15276.8	15240.1	16426.2	19066.5	22655.0	22570.4	19238.9	11555.8	5924.0	3116.0	1754.4
75°	12532.7	12770.6	14608.0	19020.2	24067.8	24056.6	18250.8	7346.3	2450.4	1291.4	906.7
77.5°	6720.5	7097.3	9483.8	14042.9	18788.7	19071.3	12831.3	2570.1	1052.0	826.9	627.4
80°	2191.8	2520.6	3780.1	7149.9	12208.7	12156.0	5499.3	1008.9	719.9	585.9	434.2
82.5°	930.7	969.0	1688.9	3376.2	6265.6	6168.2	1751.2	579.5	506.0	400.7	268.2
85°	364.0	407.1	745.5	1561.2	2713.8	2654.7	632.1	287.3	324.1	261.8	159.6
87.5°	119.7	145.3	266.6	534.8	844.5	814.1	154.8	99.0	140.5	119.7	57.5
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°	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9	3934.9
2.5°	3968.5	3994.0	4024.3	4069.0	4107.3	4139.3	4172.8	4193.5	4201.5	4225.5	4223.9
5°	3997.2	4053.1	4128.1	4201.5	4273.4	4316.5	4354.8	4373.9	4391.5	4404.3	4407.5
7.5°	4045.1	4116.9	4235.0	4330.8	4391.5	4426.6	4452.1	4445.8	4452.1	4455.3	4460.1
10°	4086.6	4187.2	4327.6	4418.6	4464.9	4466.5	4460.1	4437.8	4426.6	4428.2	4431.4
12.5°	4136.1	4247.8	4399.5	4476.1	4488.9	4453.7	4426.6	4388.3	4373.9	4367.5	4364.4
15°	4203.1	4330.8	4477.7	4506.4	4474.5	4429.8	4383.5	4321.2	4289.3	4263.8	4271.8
17.5°	4284.5	4425.0	4538.3	4517.6	4449.0	4375.5	4300.5	4206.3	4140.9	4113.7	4115.3
20°	4397.9	4524.0	4584.6	4493.7	4389.9	4278.1	4150.4	4035.5	3974.8	3947.7	3944.5
22.5°	4535.2	4656.5	4629.3	4452.1	4305.3	4126.5	3966.9	3882.3	3851.9	3832.8	3836.0
25°	4699.6	4803.3	4661.3	4391.5	4166.4	3925.4	3802.4	3775.3	3760.9	3746.6	3746.6
27.5°	4913.5	4969.4	4685.2	4302.1	3949.3	3711.5	3666.8	3671.5	3666.8	3642.8	3647.6
30°	5196.0	5184.9	4707.6	4156.8	3700.3	3518.3	3521.5	3542.2	3545.4	3529.5	3537.5
32.5°	5568.0	5454.6	4718.7	3968.5	3462.4	3349.1	3352.3	3374.6	3390.6	3363.5	3376.2
35°	6018.1	5769.1	4701.2	3732.2	3278.8	3187.9	3163.9	3170.3	3175.1	3149.5	3167.1
37.5°	6543.3	6121.9	4623.0	3470.4	3127.2	3029.8	2978.7	2935.6	2910.1	2886.2	2902.1
40°	7119.6	6506.6	4479.3	3215.0	2958.0	2862.2	2785.6	2704.2	2618.0	2586.0	2600.4
42.5°	7723.0	6902.5	4305.3	2970.8	2763.2	2685.0	2603.6	2485.5	2356.2	2290.7	2298.7
45°	8348.8	7308.0	4134.5	2729.7	2563.7	2530.2	2436.0	2293.9	2153.4	2070.4	2064.0
47.5°	8961.8	7691.1	3883.9	2487.1	2376.9	2413.6	2340.2	2209.3	2052.9	1922.0	1907.6
50°	9547.6	8050.3	3473.6	2241.2	2225.3	2378.5	2308.3	2119.9	1941.1	1773.5	1759.1
52.5°	10128.7	8340.8	2948.4	2017.8	2143.9	2368.9	2266.8	2059.3	1840.6	1665.0	1645.8
55°	10621.9	8490.8	2442.4	1826.2	2025.7	2287.5	2217.3	1987.4	1698.5	1511.7	1495.8
57.5°	10902.9	8369.5	2020.9	1637.8	1862.9	2153.4	2132.7	1834.2	1529.3	1385.6	1366.5
60°	10781.6	7877.9	1676.1	1473.4	1708.1	2008.2	1985.8	1682.5	1400.0	1264.3	1245.1
62.5°	10112.7	6940.8	1403.2	1329.7	1567.6	1859.7	1839.0	1566.0	1301.0	1170.1	1149.4
65°	8765.4	5646.2	1190.9	1210.0	1425.5	1680.9	1711.3	1468.6	1222.8	1095.1	1074.3
67.5°	6685.4	4089.8	1024.8	1106.3	1286.6	1505.3	1593.1	1398.4	1157.3	1036.0	1016.9
70°	3810.4	2322.7	884.4	1005.7	1163.7	1342.5	1502.1	1342.5	1087.1	986.5	973.8
72.5°	1444.7	1066.3	764.6	905.1	1045.6	1205.2	1401.6	1254.7	1005.7	930.7	917.9
75°	771.0	649.7	643.3	787.0	909.9	1071.1	1275.5	1168.5	945.0	983.3	1015.3
77.5°	525.2	459.7	538.0	673.6	761.4	922.7	1141.4	1037.6	818.9	815.7	751.9
80°	364.0	325.7	437.4	542.8	589.0	775.8	996.1	890.7	667.3	622.6	595.4
82.5°	218.7	212.3	327.2	405.5	416.6	598.6	825.3	747.1	545.9	475.7	478.9
85°	119.7	126.1	209.1	237.9	242.6	418.2	646.5	577.9	419.8	352.8	356.0
87.5°	33.5	43.1	76.6	94.2	116.5	217.1	384.7	343.2	210.7	146.9	146.9
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)