

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: P885461

Luminaire Tested: **NAV-SB6D-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885461
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-SB6D-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA 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: 60093 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

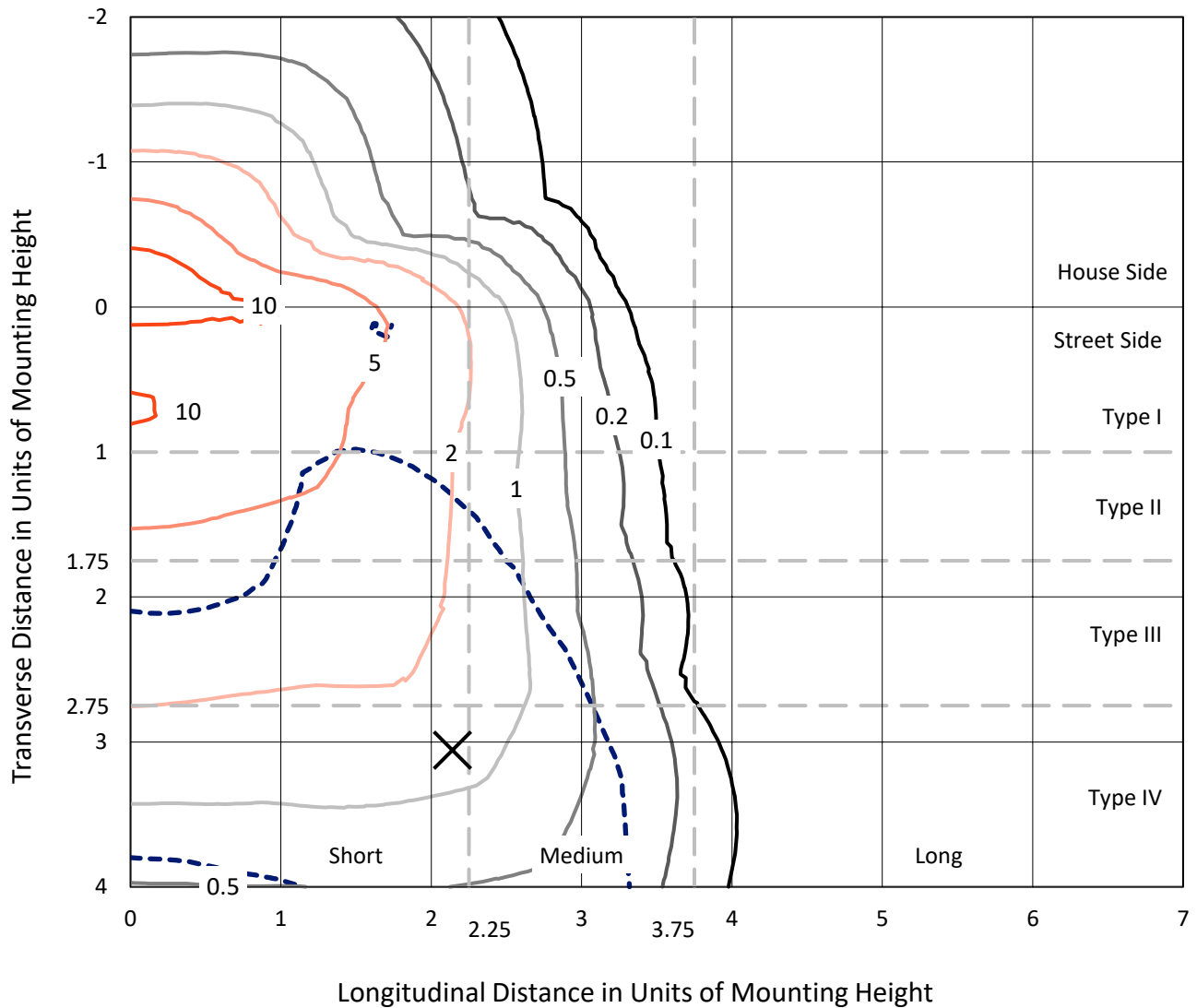
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

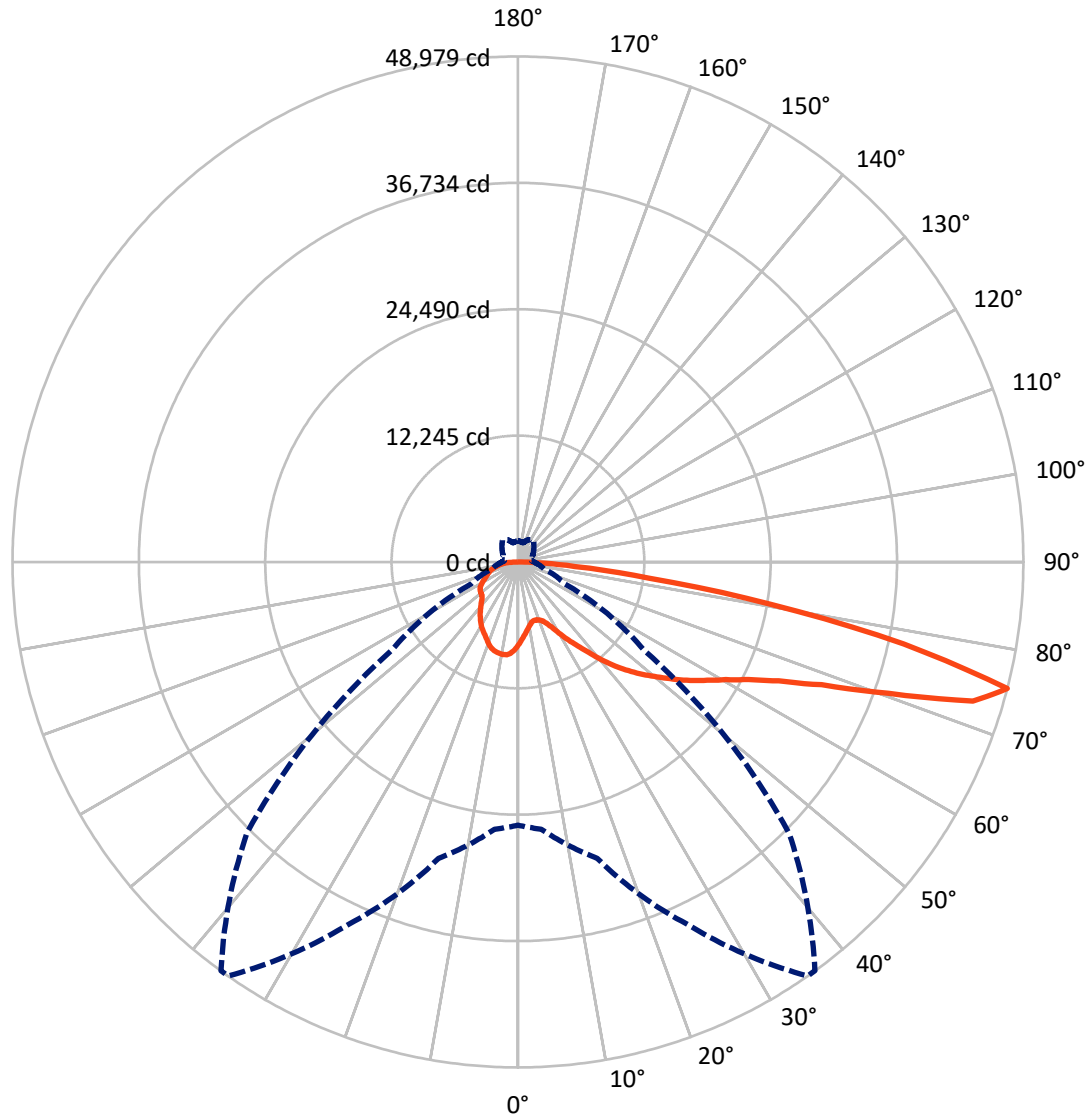
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	14300.6	0.0	14300.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	45792.4	0.0	45792.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	60093.0	0.0	60093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.2	1.3
10°-20°	2186.9	3.6
20°-30°	3672.4	6.1
30°-40°	5707.4	9.5
40°-50°	8471.3	14.1
50°-60°	11695.2	19.5
60°-70°	14188.9	23.6
70°-80°	11726.1	19.5
80°-90°	1686.6	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°	60093.0	100.0
0°-180°	60093.0	100.0

Coefficient of Utilization



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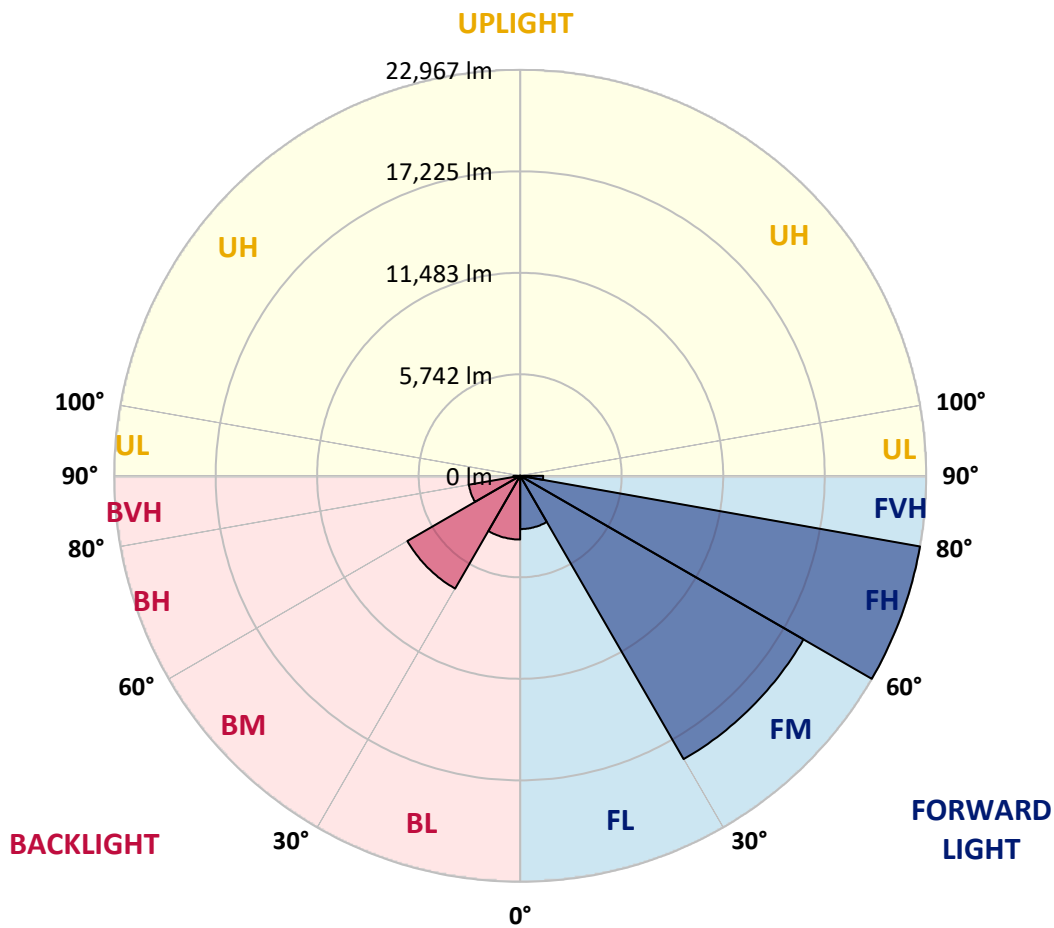
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3013.5	5.0			
FM (30°-60°)	18505.4	30.8			
FH (60°-80°)	22966.6	38.2			G5
FVH (80°-90°)	1306.8	2.2			G5
BL (0°-30°)	3604.0	6.0	B4/5000		
BM (30°-60°)	7368.6	12.3	B4/8500		
BH (60°-80°)	2948.3	4.9	B4/5000		G4/5000
BVH (80°-90°)	379.8	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°	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8
2.5°	7384.1	7429.5	7449.0	7439.3	7488.0	7481.5	7549.7	7634.2	7751.2	7864.9	8030.5
5°	6815.6	6864.3	6906.5	6945.5	7039.7	7069.0	7176.2	7338.6	7553.0	7770.7	8043.5
7.5°	6286.0	6328.3	6393.2	6464.7	6623.9	6653.1	6831.8	7085.2	7384.1	7702.4	8079.3
10°	5854.0	5896.2	5964.4	6045.6	6243.8	6279.5	6506.9	6844.8	7234.6	7637.5	8118.3
12.5°	5668.8	5681.8	5720.8	5802.0	5974.2	5996.9	6247.1	6633.6	7088.4	7588.7	8176.7
15°	5659.1	5685.0	5688.3	5730.5	5873.5	5883.2	6113.9	6497.2	6997.5	7579.0	8264.4
17.5°	5756.5	5776.0	5746.8	5772.8	5893.0	5909.2	6091.1	6432.2	6968.2	7621.2	8413.9
20°	6016.4	6032.7	5944.9	5909.2	5996.9	6009.9	6188.6	6474.5	6997.5	7708.9	8618.5
22.5°	6568.7	6578.4	6364.0	6217.8	6224.3	6230.8	6386.7	6646.6	7111.2	7868.1	8878.4
25°	7429.5	7423.1	7081.9	6799.3	6636.9	6601.2	6705.1	6926.0	7302.9	8079.3	9213.0
27.5°	8436.6	8387.9	8046.8	7624.5	7270.4	7218.4	7195.6	7289.9	7575.7	8358.6	9622.4
30°	9573.6	9528.1	9161.1	8608.8	8118.3	8033.8	7819.4	7770.7	7981.8	8738.7	10190.9
32.5°	10821.1	10791.8	10353.3	9684.1	9027.9	8930.4	8569.8	8439.9	8605.5	9313.7	10983.5
35°	11867.1	11841.1	11477.3	10788.6	9986.2	9866.0	9498.9	9352.7	9437.2	10051.2	12019.8
37.5°	12812.5	12799.5	12487.6	11945.1	11116.7	10970.5	10557.9	10509.2	10493.0	11022.5	13277.0
40°	13689.6	13657.1	13332.3	13046.4	12432.4	12299.2	11935.4	11893.1	11769.7	12218.0	14699.9
42.5°	14660.9	14576.5	14105.4	13972.2	13806.5	13696.1	13478.4	13484.9	13212.1	13566.2	16207.3
45°	15453.6	15404.9	14920.8	14842.9	15021.5	14976.0	15164.5	15213.2	14683.7	14979.3	17773.1
47.5°	16304.7	16259.2	15849.9	15794.7	16278.7	16291.7	16957.7	16973.9	16119.6	16447.7	19342.2
50°	17354.0	17289.0	16883.0	16951.2	17493.7	17542.4	18760.7	18650.2	17441.7	17938.8	20898.2
52.5°	18046.0	18085.0	17997.2	18107.7	18848.4	18893.9	20534.4	20251.8	18750.9	19410.4	22425.1
55°	18556.0	18634.0	18906.9	19160.2	20277.8	20323.2	22207.4	21775.4	19836.0	20774.8	23861.0
57.5°	19212.2	19101.8	19611.8	20105.6	21635.7	21755.9	23835.0	23243.7	20797.5	21950.8	24845.3
60°	20154.3	20076.3	20472.7	21203.6	23156.0	23347.7	25556.7	24565.9	21502.5	22883.1	25037.0
62.5°	22064.5	21869.6	21931.3	22577.8	25072.7	25326.1	27499.4	25719.2	21853.3	23247.0	24010.4
65°	24920.0	24585.4	24273.5	24721.8	27772.3	28022.4	29692.2	26625.5	21723.4	22542.0	21284.8
67.5°	28516.2	28184.9	27801.5	28223.8	31748.6	31946.7	32398.3	27135.6	20700.1	19826.2	16467.2
70°	31482.2	31358.7	31816.8	33554.8	38099.6	38106.1	35867.8	26713.2	17896.5	14056.7	9528.1
72.5°	31089.1	31014.4	33428.1	38801.3	46104.1	45932.0	39152.1	23516.6	12055.6	6341.3	3570.2
75°	25504.8	25988.8	29727.9	38707.1	48979.1	48956.4	37141.2	14950.1	4986.6	2628.1	1845.2
77.5°	13676.6	14443.3	19299.9	28577.9	38236.0	38811.0	26112.2	5230.2	2140.8	1682.8	1276.7
80°	4460.3	5129.5	7692.7	14550.5	24845.3	24738.1	11191.4	2053.1	1465.1	1192.2	883.6
82.5°	1893.9	1971.9	3437.0	6870.8	12750.8	12552.6	3563.7	1179.2	1029.8	815.4	545.8
85°	740.7	828.4	1517.1	3177.1	5522.6	5402.4	1286.4	584.7	659.5	532.8	324.9
87.5°	243.6	295.6	542.5	1088.3	1718.5	1656.8	315.1	201.4	285.9	243.6	116.9
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°	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8	8007.8
2.5°	8076.0	8128.0	8189.7	8280.7	8358.6	8423.6	8491.8	8534.1	8550.3	8599.0	8595.8
5°	8134.5	8248.2	8400.9	8550.3	8696.5	8784.2	8862.2	8901.2	8936.9	8962.9	8969.4
7.5°	8232.0	8378.1	8618.5	8813.5	8936.9	9008.4	9060.3	9047.4	9060.3	9066.8	9076.6
10°	8316.4	8521.1	8807.0	8992.1	9086.3	9089.6	9076.6	9031.1	9008.4	9011.6	9018.1
12.5°	8417.1	8644.5	8953.1	9109.1	9135.1	9063.6	9008.4	8930.4	8901.2	8888.2	8881.7
15°	8553.6	8813.5	9112.3	9170.8	9105.8	9014.9	8920.7	8794.0	8729.0	8677.0	8693.3
17.5°	8719.2	9005.1	9235.8	9193.5	9053.8	8904.4	8751.7	8560.1	8426.9	8371.6	8374.9
20°	8949.9	9206.5	9330.0	9144.8	8933.6	8706.2	8446.4	8212.5	8089.0	8033.8	8027.3
22.5°	9229.3	9476.2	9420.9	9060.3	8761.5	8397.6	8072.8	7900.6	7838.9	7799.9	7806.4
25°	9563.9	9775.0	9485.9	8936.9	8478.8	7988.3	7738.2	7682.9	7653.7	7624.5	7624.5
27.5°	9999.2	10112.9	9534.6	8755.0	8037.0	7553.0	7462.0	7471.8	7462.0	7413.3	7423.1
30°	10574.2	10551.5	9580.1	8459.4	7530.3	7159.9	7166.4	7208.6	7215.1	7182.7	7198.9
32.5°	11331.1	11100.5	9602.9	8076.0	7046.2	6815.6	6822.1	6867.5	6900.0	6844.8	6870.8
35°	12247.2	11740.4	9567.1	7595.2	6672.6	6487.5	6438.7	6451.7	6461.5	6409.5	6445.2
37.5°	13316.0	12458.4	9407.9	7062.5	6364.0	6165.8	6061.9	5974.2	5922.2	5873.5	5906.0
40°	14488.8	13241.3	9115.6	6542.7	6019.7	5824.7	5668.8	5503.1	5327.7	5262.7	5292.0
42.5°	15716.7	14046.9	8761.5	6045.6	5623.3	5464.1	5298.5	5058.1	4794.9	4661.7	4678.0
45°	16990.2	14872.1	8413.9	5555.1	5217.3	5149.0	4957.4	4668.2	4382.4	4213.4	4200.4
47.5°	18237.6	15651.8	7903.8	5061.3	4837.2	4911.9	4762.4	4496.1	4177.7	3911.3	3882.1
50°	19429.9	16382.7	7069.0	4561.0	4528.5	4840.4	4697.5	4314.1	3950.3	3609.2	3580.0
52.5°	20612.4	16973.9	6000.2	4106.2	4362.9	4820.9	4613.0	4190.7	3745.6	3388.3	3349.3
55°	21616.2	17279.3	4970.4	3716.4	4122.5	4655.2	4512.3	4044.5	3456.5	3076.4	3043.9
57.5°	22187.9	17032.4	4112.7	3333.1	3791.1	4382.4	4340.1	3732.6	3112.2	2819.8	2780.8
60°	21941.0	16031.8	3411.0	2998.5	3476.0	4086.7	4041.3	3424.0	2849.0	2572.9	2533.9
62.5°	20579.9	14124.9	2855.5	2706.1	3190.1	3784.6	3742.4	3186.9	2647.6	2381.2	2339.0
65°	17838.1	11490.3	2423.5	2462.4	2901.0	3420.8	3482.5	2988.7	2488.4	2228.5	2186.3
67.5°	13605.1	8322.9	2085.6	2251.3	2618.4	3063.4	3242.1	2845.8	2355.2	2108.3	2069.4
70°	7754.4	4726.7	1799.7	2046.6	2368.2	2732.1	3056.9	2732.1	2212.3	2007.6	1981.6
72.5°	2940.0	2170.1	1556.1	1842.0	2127.8	2452.7	2852.3	2553.4	2046.6	1893.9	1867.9
75°	1569.1	1322.2	1309.2	1601.6	1851.7	2179.8	2595.6	2378.0	1923.2	2001.1	2066.1
77.5°	1068.8	935.6	1094.8	1370.9	1549.6	1877.7	2322.7	2111.6	1666.5	1660.0	1530.1
80°	740.7	662.7	890.1	1104.5	1198.7	1578.8	2027.1	1812.7	1357.9	1267.0	1211.7
82.5°	445.1	432.1	666.0	825.1	847.9	1218.2	1679.5	1520.3	1111.0	968.1	974.6
85°	243.6	256.6	425.6	484.0	493.8	851.1	1315.7	1176.0	854.4	717.9	724.4
87.5°	68.2	87.7	155.9	191.7	237.1	441.8	782.9	698.4	428.8	298.9	298.9
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)