

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: P885467

Luminaire Tested: **NAV-SB6D-735-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885467  
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-SB6D-735-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

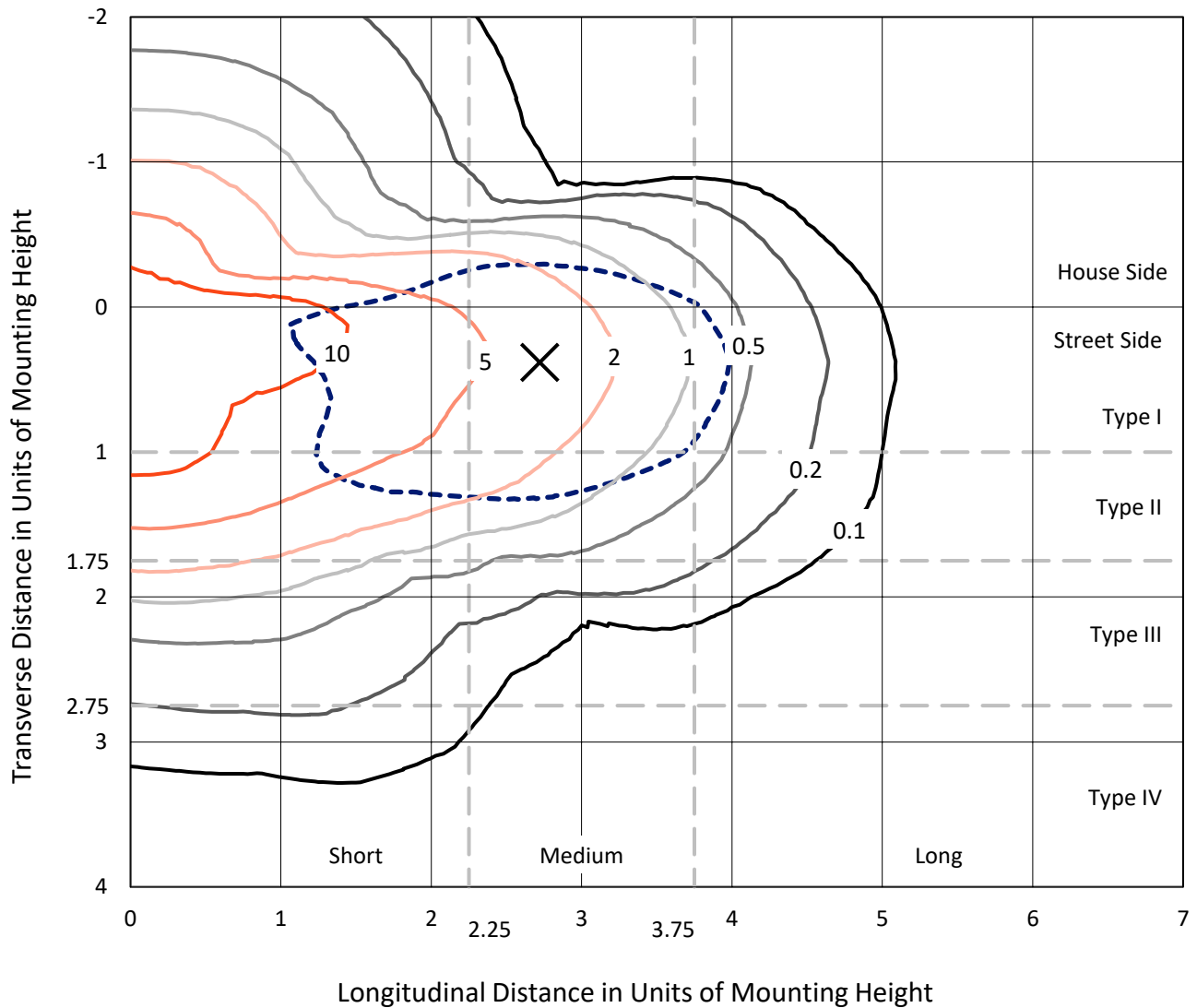
Lumens per Lamp: N/A  
Luminaire Lumens: 61200 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

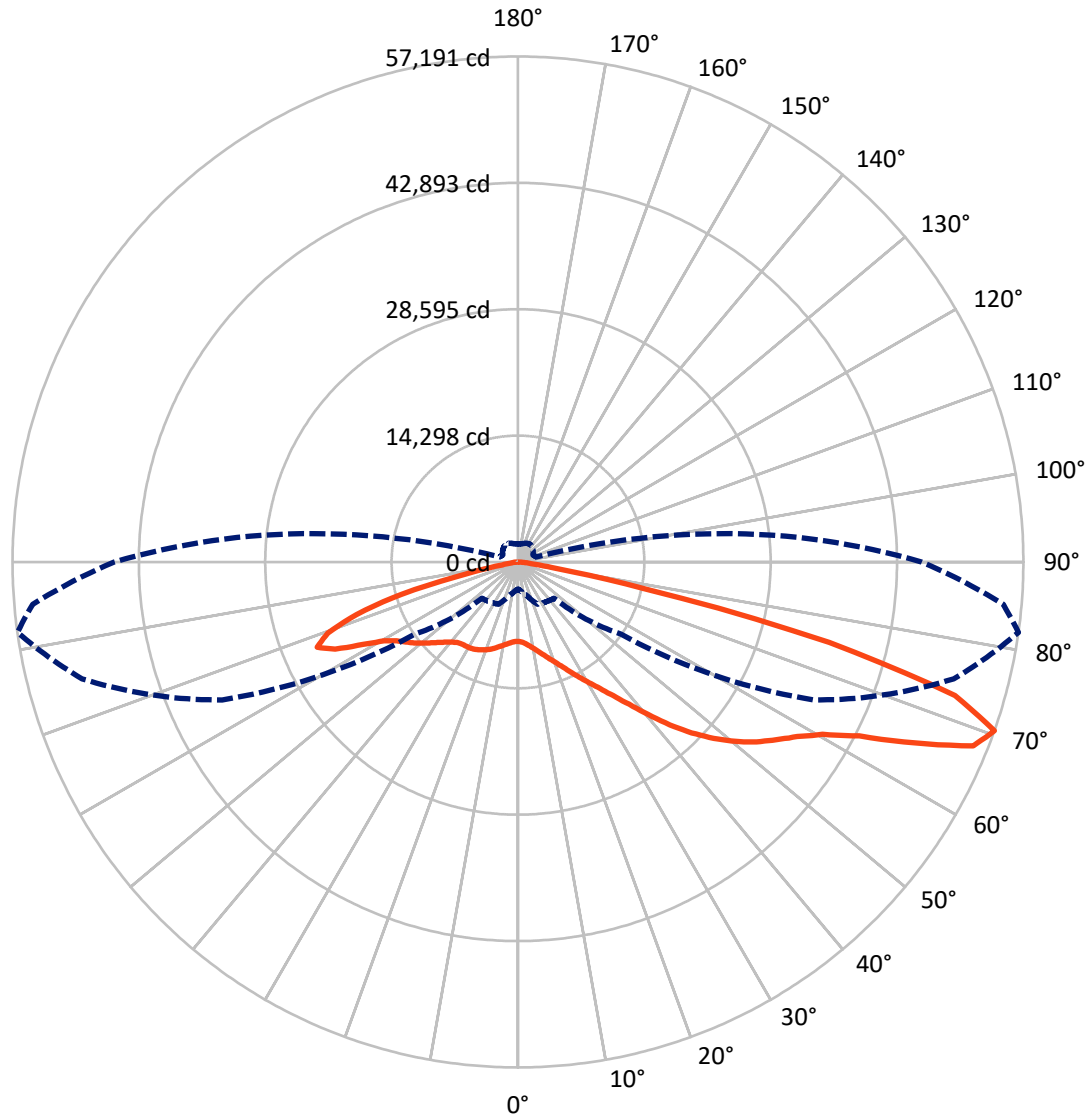
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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
<b>House Side</b>	Lumens	15087.3	0.0	15087.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	46112.7	0.0	46112.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	61200.0	0.0	61200.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.2	1.4
10°-20°	2434.0	4.0
20°-30°	4071.8	6.7
30°-40°	6361.3	10.4
40°-50°	10131.0	16.6
50°-60°	14098.6	23.0
60°-70°	14747.8	24.1
70°-80°	7708.0	12.6
80°-90°	800.4	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°	61200.0	100.0
0°-180°	61200.0	100.0

**Coefficient of Utilization**

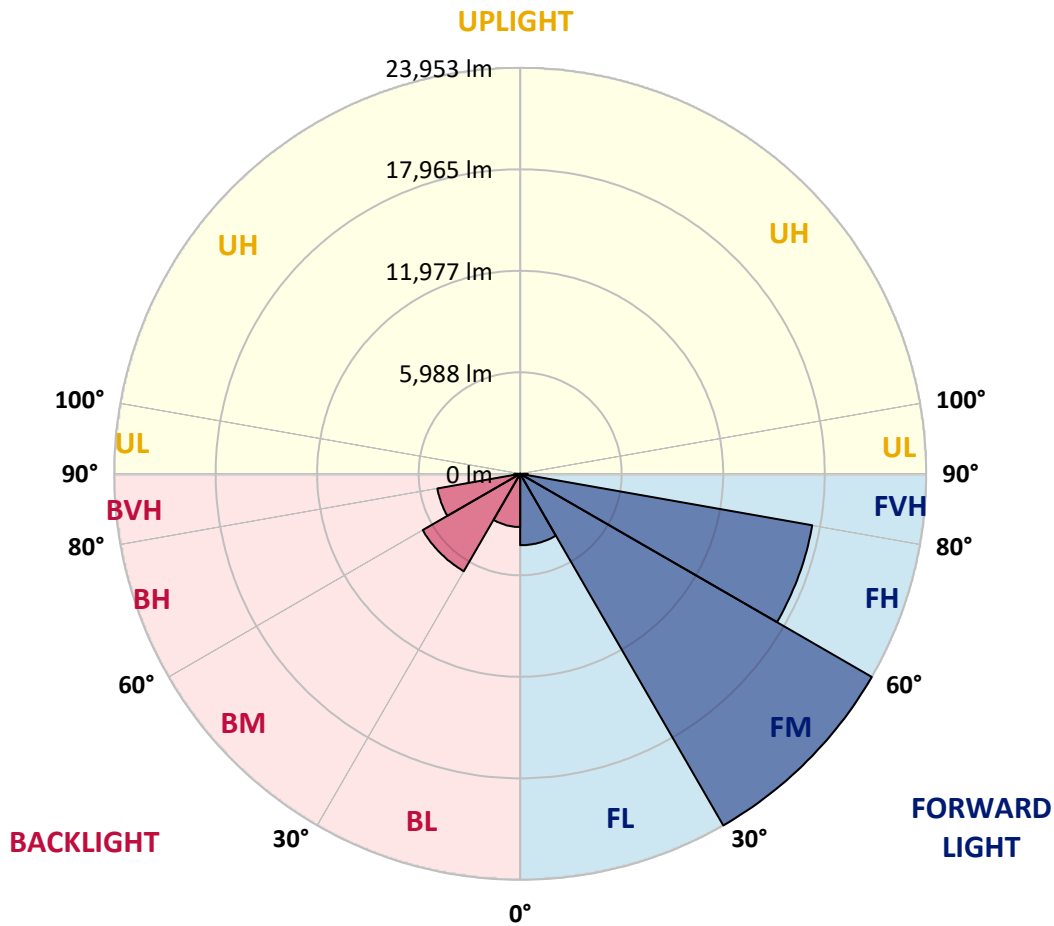


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4214.3	6.9			
FM (30°-60°)	23953.1	39.1			
FH (60°-80°)	17497.3	28.6			G5
FVH (80°-90°)	448.1	0.7			G3/500
BL (0°-30°)	3138.7	5.1	B4/5000		
BM (30°-60°)	6637.8	10.8	B4/8500		
BH (60°-80°)	4958.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	352.3	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7
2.5°	9187.0	9239.0	9222.7	9206.5	9206.5	9183.8	9180.5	9148.0	9122.1	9079.9	9070.1
5°	9303.9	9359.1	9352.6	9365.6	9407.8	9417.6	9427.3	9407.8	9355.9	9303.9	9281.2
7.5°	9200.0	9261.7	9281.2	9359.1	9489.0	9605.9	9693.6	9729.3	9680.6	9605.9	9570.2
10°	8849.3	8917.5	8985.7	9170.8	9401.3	9677.4	9911.2	10050.8	10041.1	9969.7	9907.9
12.5°	8138.1	8209.5	8355.7	8716.1	9138.3	9625.4	10060.6	10352.8	10453.5	10401.6	10294.4
15°	7569.8	7631.5	7741.9	8112.1	8660.9	9401.3	10115.8	10684.1	10940.6	10911.4	10781.5
17.5°	7553.6	7579.5	7647.7	7823.1	8245.3	9050.6	10057.3	11008.8	11499.2	11495.9	11333.6
20°	7839.3	7849.1	7888.0	7923.8	8164.1	8784.3	9907.9	11278.4	12126.0	12126.0	11950.6
22.5°	8235.5	8229.0	8268.0	8235.5	8352.4	8761.6	9813.8	11515.4	12824.2	12876.1	12655.3
25°	8829.8	8797.3	8787.6	8712.9	8735.6	8972.7	9917.7	11785.0	13652.3	13759.4	13483.4
27.5°	9622.2	9570.2	9534.5	9362.4	9303.9	9407.8	10235.9	12109.7	14574.5	14759.6	14408.9
30°	10654.9	10560.7	10508.7	10210.0	9998.9	10015.1	10716.6	12541.6	15539.0	15837.8	15392.9
32.5°	12064.3	11918.1	11778.5	11288.1	10901.7	10775.0	11336.8	13139.2	16584.7	17062.1	16490.5
35°	13642.5	13525.6	13376.2	12619.6	12025.3	11733.0	12174.7	13973.7	17809.0	18565.6	17822.0
37.5°	15162.3	15061.6	15133.1	14113.4	13347.0	12921.6	13272.3	15094.1	19319.0	20436.2	19491.2
40°	16734.1	16656.1	16665.9	15691.6	14798.6	14321.2	14603.8	16500.3	21049.9	22660.7	21498.1
42.5°	18442.2	18383.8	18188.9	17325.1	16321.6	15876.7	16136.5	18124.0	22907.5	25193.7	23699.8
45°	20355.0	20319.3	20137.4	19146.9	17997.3	17497.2	17847.9	19916.6	24774.7	27577.3	25911.3
47.5°	22007.9	22037.1	22014.4	21179.8	19988.0	19254.1	19673.0	21787.1	26512.1	29818.0	28031.9
50°	22803.5	22956.2	23180.2	22920.5	22180.0	21433.1	21514.3	23592.7	28168.3	31919.1	30064.8
52.5°	22387.9	22676.9	23287.4	23703.1	23988.9	23833.0	23615.4	25385.3	29727.1	33815.6	31987.3
55°	20838.8	21244.8	22258.0	23261.4	24719.5	25852.9	26138.7	27372.7	31246.9	35484.8	33805.9
57.5°	18016.8	18676.0	19585.3	21615.0	24070.0	26830.4	29080.9	30129.8	32857.6	37267.7	35708.9
60°	13178.1	14061.4	15191.5	18211.7	21796.8	26307.5	31584.6	34364.4	35147.1	39576.6	38186.7
62.5°	8433.6	8979.2	10018.4	12863.1	16984.1	23628.4	32351.0	39657.8	39027.8	43363.1	41901.8
65°	5774.0	6124.7	7076.2	8673.9	10979.6	17588.2	30298.6	43626.2	45191.4	49364.4	48253.8
67.5°	4195.7	4462.0	5273.8	6673.5	7154.1	10408.1	23511.5	43444.3	51183.0	55547.5	53819.9
70°	3059.1	3247.4	3929.4	5273.8	5504.4	5790.2	14243.3	36929.9	51053.1	57190.7	55122.1
72.5°	2266.7	2396.6	2854.5	4091.8	4455.5	3909.9	7050.2	26840.1	43869.7	51728.5	50069.1
75°	1640.0	1737.4	2075.1	3130.5	3565.7	2977.9	3517.0	15685.2	30600.7	36387.6	36679.9
77.5°	1253.5	1328.2	1549.0	2292.7	2854.5	2234.2	2182.3	7215.8	14509.6	14581.0	15399.4
80°	1006.7	1055.4	1175.6	1614.0	2188.8	1672.4	1422.4	2913.0	4585.4	3880.7	4072.3
82.5°	740.4	821.6	993.7	1133.4	1565.3	1152.8	867.1	1471.1	1743.9	1500.3	1513.3
85°	422.2	477.4	600.8	811.9	1000.2	704.7	496.9	652.7	811.9	665.7	594.3
87.5°	149.4	194.8	211.1	318.2	435.2	292.3	191.6	188.4	266.3	198.1	165.6
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°	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7	8972.7
2.5°	9037.6	9021.4	8956.4	8868.8	8777.8	8690.2	8660.9	8599.2	8557.0	8534.3	8560.3
5°	9219.5	9167.5	9014.9	8820.1	8615.5	8394.6	8238.8	8095.9	7992.0	7894.5	7933.5
7.5°	9479.3	9388.4	9125.3	8784.3	8420.6	8053.7	7780.9	7573.0	7433.4	7342.5	7362.0
10°	9781.3	9641.7	9239.0	8729.1	8167.3	7641.2	7319.7	7141.1	7053.4	7004.7	7017.7
12.5°	10128.8	9930.7	9355.9	8602.5	7780.9	7180.1	6959.3	6907.3	6910.6	6913.8	6920.3
15°	10557.4	10281.4	9450.1	8326.4	7277.5	6826.1	6787.2	6871.6	6959.3	7001.5	6998.2
17.5°	11041.3	10651.6	9466.3	7871.8	6783.9	6598.8	6722.2	6904.1	7037.2	7095.7	7108.7
20°	11560.9	11028.3	9349.4	7228.8	6378.0	6413.7	6634.5	6868.3	7014.5	7089.2	7108.7
22.5°	12155.2	11431.0	9070.1	6553.3	6046.7	6212.4	6472.2	6699.5	6852.1	6926.8	6946.3
25°	12833.9	11882.4	8631.7	5985.0	5761.0	5985.0	6244.8	6433.2	6556.6	6624.8	6644.3
27.5°	13587.3	12353.3	8047.2	5533.6	5510.9	5751.2	5965.6	6111.7	6176.6	6228.6	6248.1
30°	14344.0	12781.9	7339.2	5192.7	5293.3	5520.7	5673.3	5738.2	5757.7	5767.5	5790.2
32.5°	15162.3	13152.1	6595.6	4910.1	5085.5	5296.6	5387.5	5416.7	5325.8	5264.1	5283.6
35°	16152.8	13548.3	5868.1	4686.1	4880.9	5062.8	5092.0	5066.0	4958.8	4832.2	4838.7
37.5°	17377.1	14041.9	5286.8	4526.9	4689.3	4809.5	4773.7	4767.2	4777.0	4627.6	4637.3
40°	18877.4	14684.9	4861.4	4403.5	4533.4	4559.4	4458.7	4513.9	4562.7	4335.3	4341.8
42.5°	20543.3	15461.1	4591.9	4319.1	4403.5	4341.8	4186.0	4247.7	4241.2	3942.4	3939.1
45°	22241.7	16305.4	4497.7	4257.4	4283.4	4160.0	3987.9	4004.1	3867.7	3598.2	3607.9
47.5°	23930.4	17211.4	4556.2	4205.4	4134.0	3994.4	3861.2	3789.8	3588.4	3387.1	3387.1
50°	25586.6	18162.9	4770.5	4101.5	3929.4	3848.2	3750.8	3624.1	3409.8	3237.7	3224.7
52.5°	27122.6	19120.9	5010.8	3929.4	3672.9	3721.6	3659.9	3513.7	3302.6	3127.3	3130.5
55°	28577.5	20078.9	5105.0	3692.3	3432.5	3611.2	3575.4	3305.9	3052.6	2909.7	2896.7
57.5°	30162.3	21231.8	5001.1	3390.3	3237.7	3484.5	3348.1	3049.3	2903.2	2796.0	2786.3
60°	32357.5	23040.6	4777.0	3016.9	3052.6	3296.2	3062.3	2938.9	2779.8	2659.7	2653.2
62.5°	36004.4	26414.7	4416.5	2646.7	2835.0	3016.9	2925.9	2802.5	2640.2	2523.3	2523.3
65°	41395.2	31104.0	3737.8	2357.6	2591.5	2744.1	2779.8	2656.4	2487.5	2364.1	2370.6
67.5°	45941.6	34046.2	2828.5	2117.3	2341.4	2523.3	2623.9	2503.8	2325.2	2205.0	2208.3
70°	45691.5	31909.4	2159.5	1880.3	2120.6	2305.7	2435.6	2341.4	2149.8	2036.1	2045.9
72.5°	40583.3	26694.0	1747.1	1640.0	1896.5	2078.4	2234.2	2162.8	1968.0	1857.5	1857.5
75°	29814.8	18948.8	1396.4	1396.4	1617.2	1841.3	2013.4	1968.0	1789.3	1711.4	1688.7
77.5°	12567.6	7949.7	1094.4	1159.3	1344.4	1581.5	1795.8	1812.1	1656.2	1753.6	1591.2
80°	3341.6	2192.0	834.6	912.5	1055.4	1305.5	1562.0	1555.5	1386.7	1295.7	1204.8
82.5°	1273.0	863.8	594.3	643.0	763.1	1000.2	1237.3	1276.2	1107.4	958.0	958.0
85°	490.4	370.2	367.0	386.4	444.9	662.5	935.3	967.7	834.6	707.9	730.7
87.5°	126.7	110.4	136.4	129.9	204.6	354.0	535.8	555.3	509.8	295.5	422.2
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)