

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: P885448

Luminaire Tested: **NAV-SB6D-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43899 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

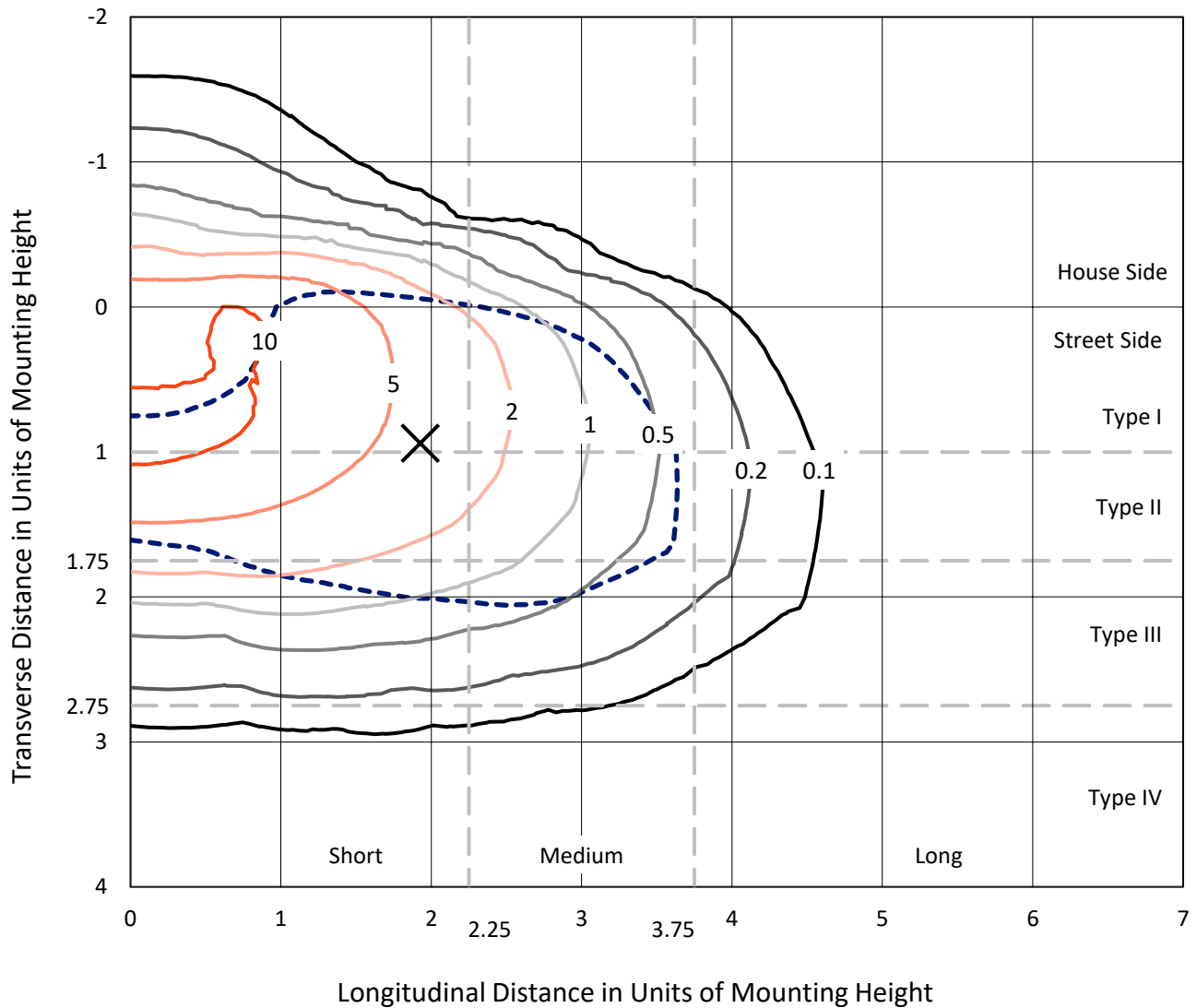
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

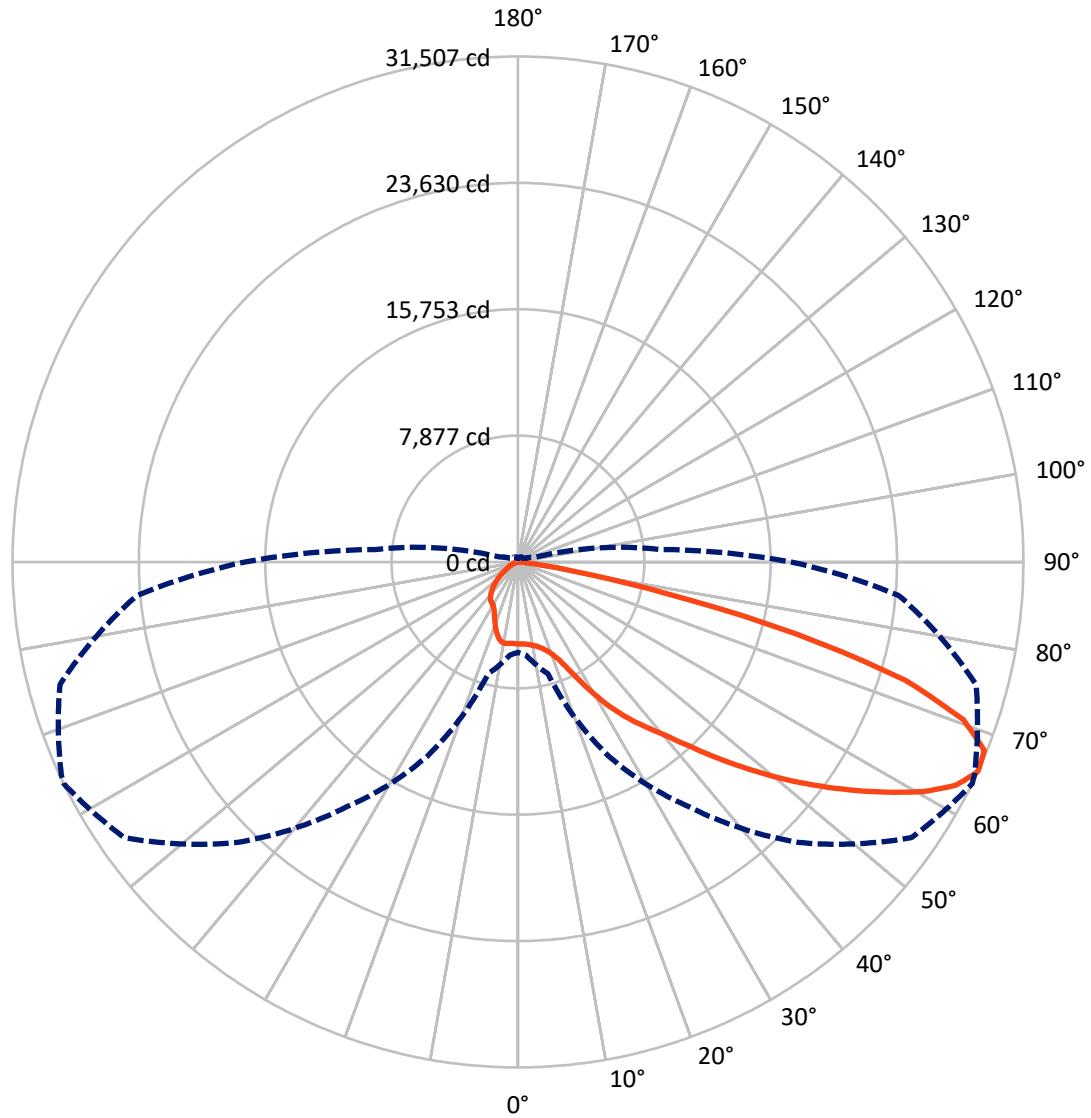
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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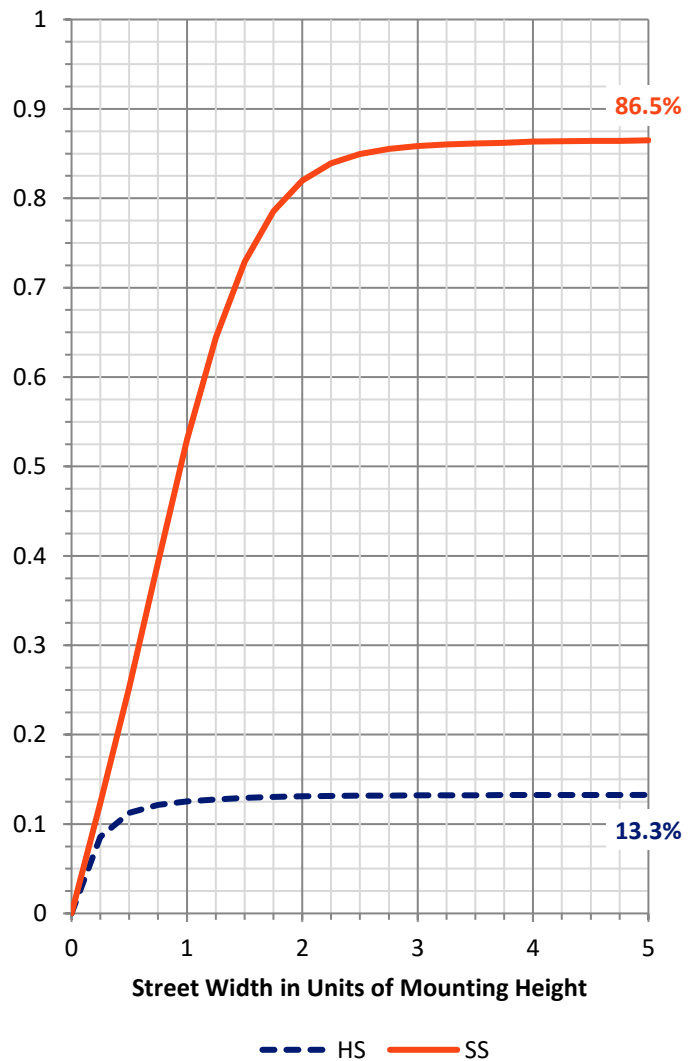
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5870.6	0.0	5870.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38028.4	0.0	38028.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	43899.0	0.0	43899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	1.1
10°-20°	1277.7	2.9
20°-30°	2421.1	5.5
30°-40°	4899.2	11.2
40°-50°	8345.7	19.0
50°-60°	11349.6	25.9
60°-70°	10657.8	24.3
70°-80°	4270.0	9.7
80°-90°	206.9	0.5
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°	43899.0	100.0
0°-180°	43899.0	100.0

Coefficient of Utilization



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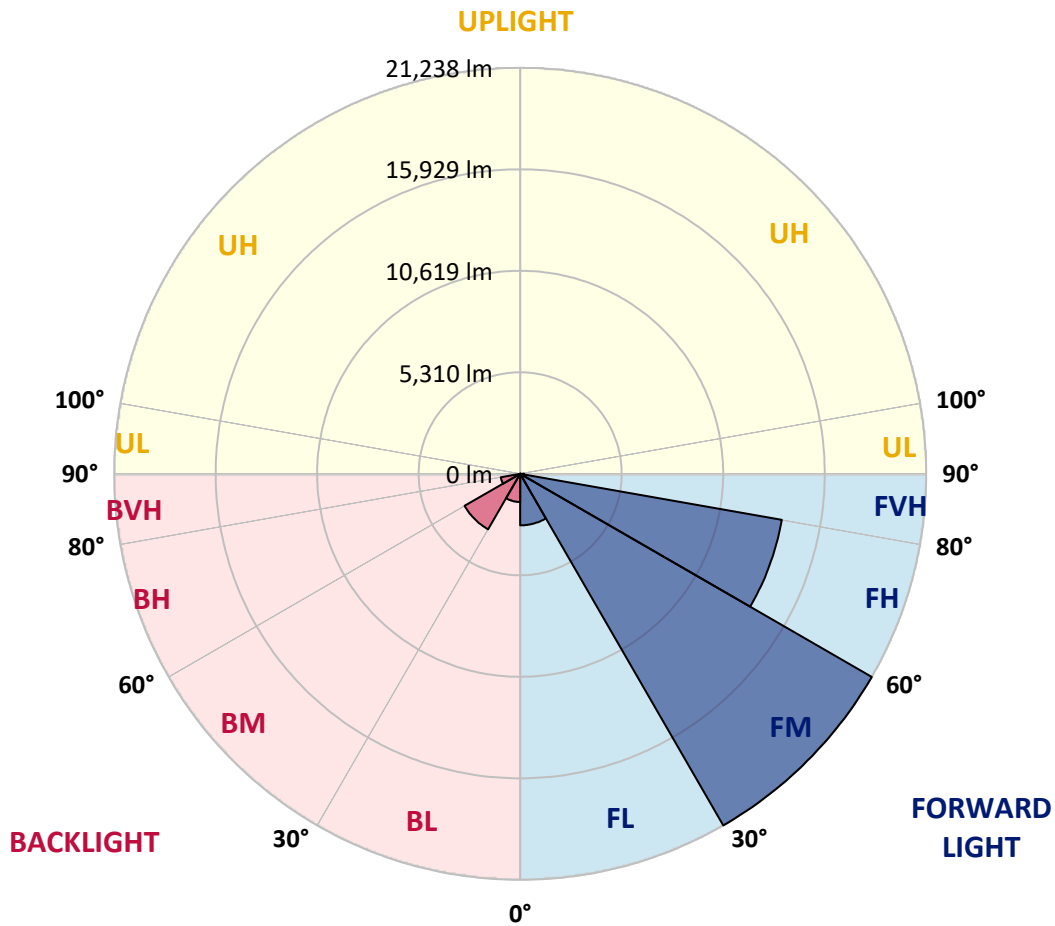
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2695.9	6.1			
FM (30°-60°)	21238.3	48.4			
FH (60°-80°)	13897.4	31.7			G5
FVH (80°-90°)	196.8	0.4			G2/225
BL (0°-30°)	1473.9	3.4	B3/2500		
BM (30°-60°)	3356.2	7.6	B3/5000		
BH (60°-80°)	1030.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9
2.5°	5088.3	5123.6	5114.7	5105.9	5103.0	5108.9	5111.8	5108.9	5108.9	5108.9	5111.8
5°	4991.1	5020.6	5020.6	5041.2	5070.6	5105.9	5132.4	5138.3	5144.2	5153.0	5150.1
7.5°	4805.7	4829.3	4846.9	4914.6	4988.2	5082.4	5161.8	5203.0	5208.9	5241.3	5253.1
10°	4679.2	4708.6	4738.0	4808.7	4914.6	5055.9	5191.3	5291.3	5306.0	5382.5	5417.9
12.5°	4673.3	4702.7	4741.0	4817.5	4941.1	5091.2	5256.0	5400.2	5426.7	5538.5	5612.1
15°	4735.1	4770.4	4805.7	4899.9	5032.3	5214.8	5391.4	5570.9	5597.4	5756.3	5835.7
17.5°	4861.6	4908.7	4935.2	5029.4	5170.7	5373.7	5606.2	5812.2	5835.7	6021.1	6121.2
20°	5111.8	5167.7	5176.5	5253.1	5391.4	5609.1	5885.8	6141.8	6171.2	6383.1	6495.0
22.5°	5629.7	5709.2	5638.6	5676.8	5800.4	6018.2	6318.4	6642.1	6683.3	6924.6	7024.7
25°	6542.0	6653.9	6471.4	6406.7	6459.6	6686.2	7062.9	7472.0	7519.1	7713.3	7763.3
27.5°	8334.3	8190.1	7913.4	7642.7	7483.8	7613.2	8037.0	8543.2	8602.1	8790.4	8731.5
30°	10303.0	10176.5	9802.8	9202.4	8825.7	8805.1	9196.5	9761.6	9829.2	10008.8	9829.2
32.5°	12274.8	12154.1	11748.0	11009.3	10356.0	10032.3	10303.0	10929.9	10965.2	11080.0	10815.1
35°	14214.1	14090.5	13684.4	12928.1	12124.7	11389.0	11336.0	12042.3	12054.1	12174.7	11780.4
37.5°	16165.3	16062.3	15629.7	14888.1	14096.4	13081.1	12589.7	13095.8	13110.6	13228.3	12819.2
40°	17557.3	17601.4	17304.2	16730.3	16050.5	14941.0	13996.4	14217.1	14128.8	14326.0	14081.7
42.5°	18752.1	18840.4	18581.4	18293.0	17898.6	16921.6	15738.6	15700.3	15559.0	15665.0	15411.9
45°	19785.0	19858.6	19626.1	19558.4	19549.6	18863.9	17642.6	17413.1	17215.9	17195.3	16892.2
47.5°	20164.7	20305.9	20406.0	20632.6	21074.0	20785.6	19611.4	19255.3	19034.6	18872.7	18393.0
50°	20308.9	20459.0	20800.3	21459.5	22504.3	22627.9	21571.4	21171.1	20900.4	20606.1	19899.8
52.5°	20114.6	20382.4	20841.5	21951.0	23466.6	24105.2	23451.9	23101.7	22792.7	22313.0	21265.3
55°	18969.9	19237.7	20176.4	21945.1	23946.3	25141.1	25229.4	25073.4	24726.1	23969.8	22368.9
57.5°	16556.7	16954.0	18440.1	21197.6	23937.4	26032.8	26971.6	27083.4	26694.9	25611.9	23237.0
60°	13213.6	13752.1	15564.9	19540.8	23198.8	26515.4	28498.9	29058.1	28646.1	27230.5	23940.4
62.5°	9220.1	9844.0	11559.7	16945.1	21509.6	26168.2	29614.3	30647.2	30335.3	28678.4	24211.1
65°	5623.9	5824.0	7207.1	13334.2	18637.3	24714.4	29958.6	31506.6	31403.6	29564.2	23810.9
67.5°	3746.3	3914.0	4311.3	9143.6	14467.2	21809.7	29134.6	31356.5	31385.9	29420.0	22345.3
70°	2257.2	2401.4	2660.4	5317.8	9376.0	17263.0	26583.1	29443.6	29614.3	27492.5	19567.3
72.5°	930.0	1027.1	1262.5	2410.2	4855.8	10956.4	21168.2	25279.4	25676.7	23116.4	15017.6
75°	526.8	576.8	741.6	1209.5	2107.1	5105.9	12822.2	17945.7	18531.4	15932.8	9034.7
77.5°	350.2	373.7	479.7	782.8	1186.0	1742.2	5479.7	9349.6	10467.9	8702.1	3911.1
80°	235.4	256.0	329.6	523.8	771.0	747.5	1745.1	3463.8	4261.3	2990.0	953.5
82.5°	158.9	161.9	235.4	344.3	488.5	362.0	515.0	1077.1	1353.7	865.2	362.0
85°	91.2	88.3	173.6	200.1	217.8	150.1	156.0	323.7	423.8	364.9	206.0
87.5°	11.8	17.7	67.7	53.0	29.4	32.4	32.4	55.9	82.4	88.3	44.1
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°	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9	5105.9
2.5°	5111.8	5108.9	5100.0	5091.2	5070.6	5058.8	5064.7	5058.8	5055.9	5058.8	5070.6
5°	5150.1	5141.2	5117.7	5088.3	5047.1	4997.0	4964.7	4917.6	4873.4	4846.9	4852.8
7.5°	5253.1	5244.2	5211.9	5129.5	4997.0	4788.1	4596.8	4429.0	4302.5	4228.9	4231.9
10°	5417.9	5403.1	5353.1	5170.7	4823.4	4367.2	3987.6	3672.7	3466.7	3369.6	3360.8
12.5°	5612.1	5594.4	5506.1	5132.4	4493.8	3781.6	3257.8	2907.6	2716.3	2630.9	2622.1
15°	5841.6	5818.1	5644.5	4949.9	4014.1	3134.2	2654.5	2392.6	2269.0	2192.5	2195.4
17.5°	6127.1	6085.9	5747.5	4676.2	3493.2	2639.8	2283.7	2086.5	1977.6	1904.0	1898.2
20°	6497.9	6430.2	5829.9	4349.6	3013.5	2327.8	2033.5	1868.7	1786.3	1721.6	1709.8
22.5°	7015.8	6918.7	5929.9	3996.4	2675.1	2113.0	1848.1	1727.5	1659.8	1586.2	1574.4
25°	7657.4	7542.6	6053.5	3669.8	2442.6	1927.6	1712.8	1612.7	1533.2	1447.9	1439.1
27.5°	8555.0	8349.0	6200.7	3402.0	2242.5	1768.7	1589.2	1477.3	1386.1	1315.5	1300.8
30°	9555.6	9217.1	6330.2	3240.1	2060.0	1621.5	1427.3	1315.5	1230.1	1180.1	1171.3
32.5°	10503.2	10044.1	6415.5	3169.5	1895.2	1453.8	1250.7	1130.1	1065.3	1050.6	1059.4
35°	11397.8	10791.6	6406.7	3101.8	1748.1	1286.0	1077.1	953.5	903.5	912.3	912.3
37.5°	12427.8	11589.1	6344.9	2995.9	1627.4	1133.0	927.0	818.1	774.0	776.9	788.7
40°	13625.6	12510.2	6306.6	2795.7	1495.0	991.8	803.4	715.1	682.7	671.0	668.0
42.5°	14902.8	13401.9	6312.5	2569.1	1330.2	865.2	718.1	644.5	615.1	606.2	603.3
45°	16185.9	14252.4	6321.3	2333.7	1156.6	768.1	656.3	594.5	576.8	565.0	565.0
47.5°	17392.5	14976.4	6156.5	2080.6	985.9	694.5	606.2	565.0	550.3	535.6	535.6
50°	18516.6	15459.0	5759.2	1786.3	850.5	635.7	568.0	538.5	523.8	509.1	509.1
52.5°	19390.7	15535.5	5103.0	1483.2	756.3	591.5	544.4	517.9	500.3	485.6	482.6
55°	19779.1	15055.8	4170.1	1200.7	682.7	553.3	520.9	494.4	473.8	459.1	456.1
57.5°	19679.1	14046.4	3251.9	965.3	612.1	515.0	491.5	473.8	450.3	426.7	423.8
60°	19187.6	12695.6	2451.4	803.4	547.4	473.8	459.1	444.4	412.0	376.7	370.8
62.5°	18337.1	10997.6	1748.1	665.1	476.7	426.7	420.8	409.1	362.0	297.2	291.3
65°	17036.4	8934.6	1177.2	553.3	409.1	373.7	376.7	356.1	294.3	220.7	214.8
67.5°	15135.3	6533.2	753.4	453.2	341.4	311.9	314.9	303.1	250.1	188.3	179.5
70°	12713.3	4326.0	491.5	344.3	273.7	241.3	259.0	261.9	211.9	153.0	147.1
72.5°	9320.1	2554.4	344.3	256.0	200.1	167.7	211.9	217.8	170.7	114.8	108.9
75°	5311.9	1212.5	259.0	185.4	123.6	117.7	164.8	164.8	117.7	76.5	70.6
77.5°	2230.7	506.2	182.5	120.7	70.6	67.7	111.8	103.0	58.9	35.3	35.3
80°	644.5	226.6	97.1	58.9	29.4	26.5	44.1	32.4	14.7	5.9	5.9
82.5°	253.1	100.1	38.3	23.5	11.8	11.8	5.9	0.0	0.0	0.0	0.0
85°	150.1	41.2	17.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	8.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)