

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: P965080

Luminaire Tested: **NAV-SB3D-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-735-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26682.8 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



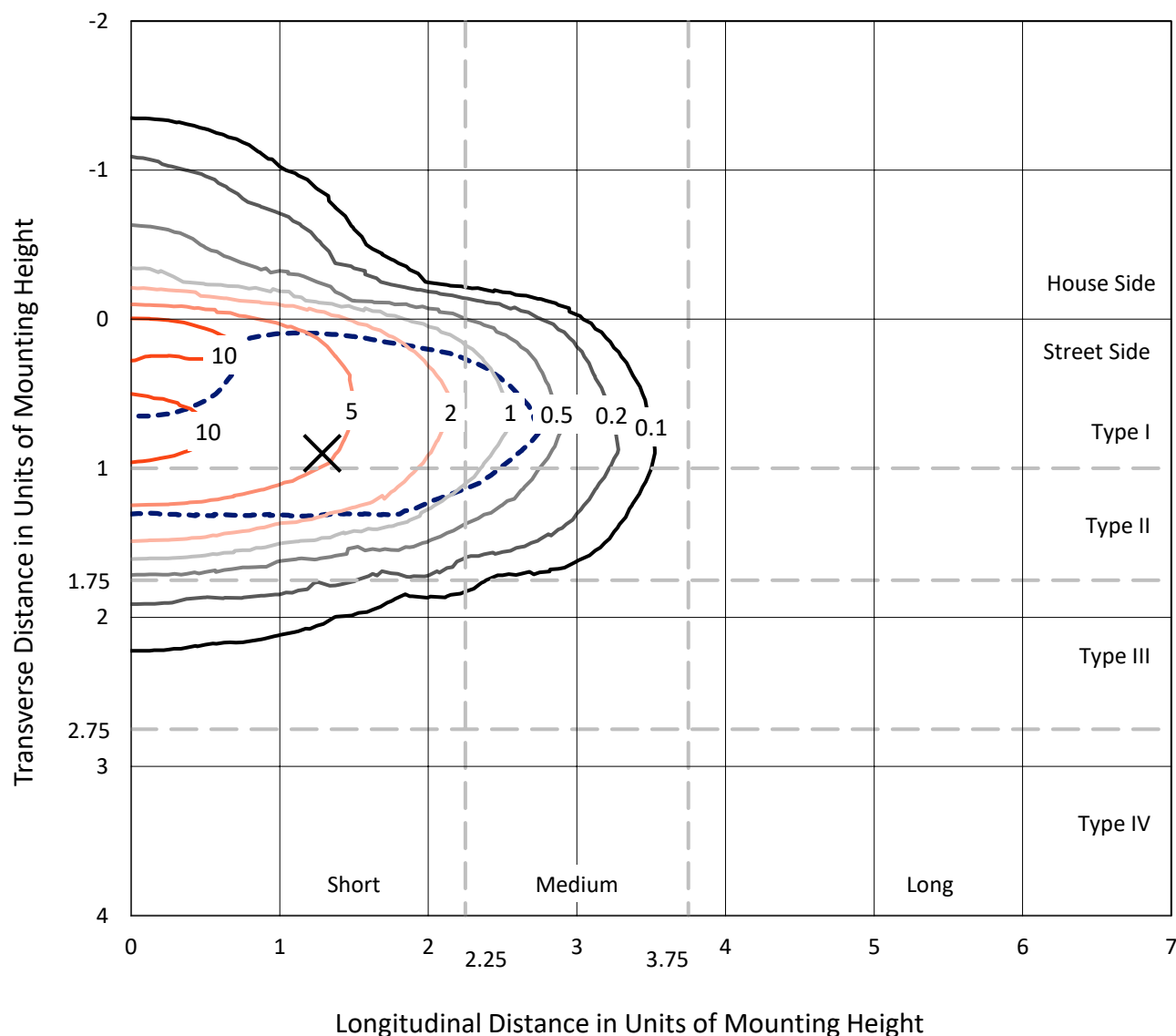
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

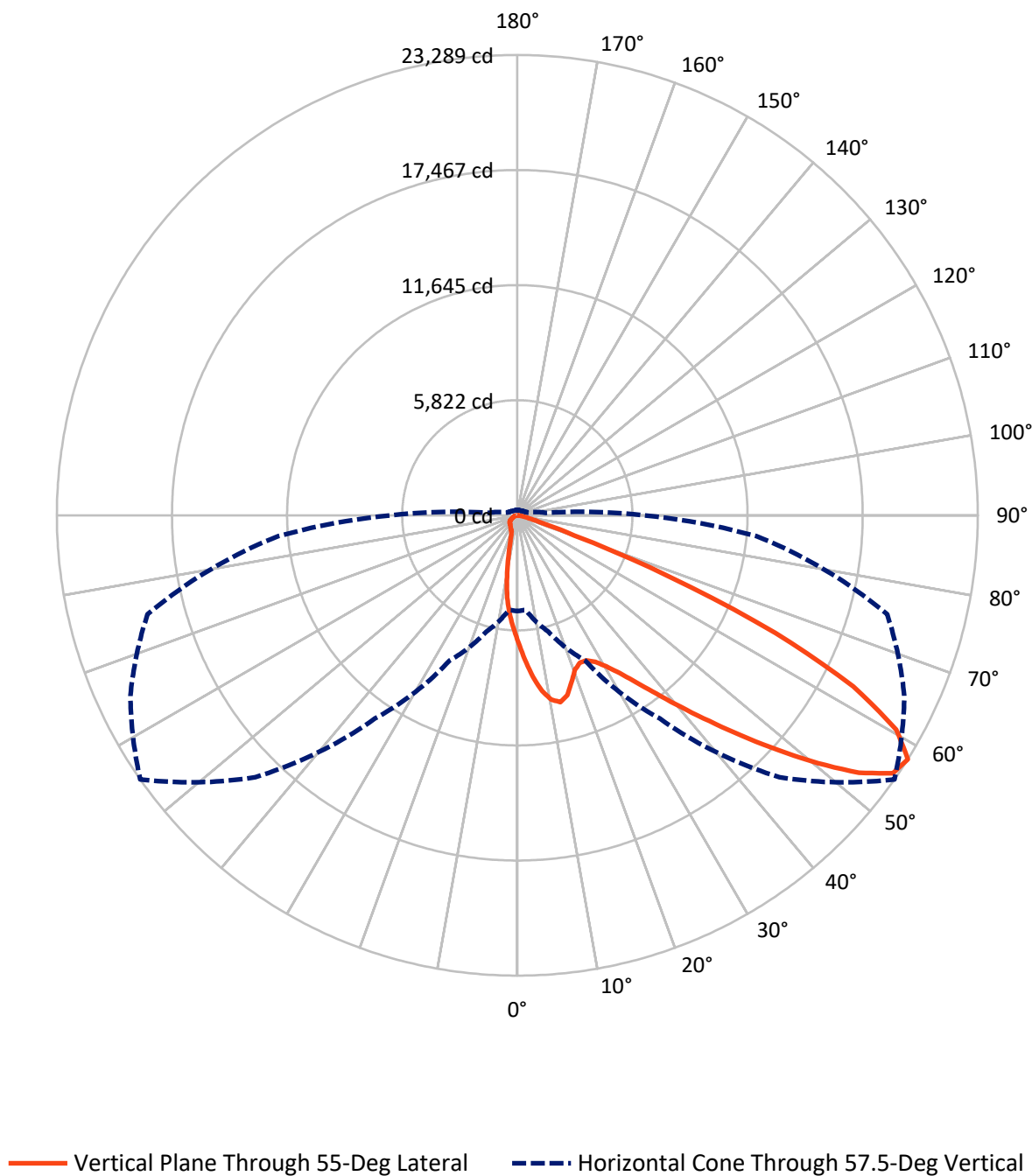


Based on 25 foot mounting height. Maximum calculated value = 14.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2083.8	0.0	2083.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	24599.0	0.0	24599.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	26682.8	0.0	26682.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	2.2
10°-20°	1445.1	5.4
20°-30°	2312.2	8.7
30°-40°	3913.5	14.7
40°-50°	6425.1	24.1
50°-60°	7061.6	26.5
60°-70°	4050.6	15.2
70°-80°	827.6	3.1
80°-90°	48.8	0.2
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°	26682.8	100.0
0°-180°	26682.8	100.0

Coefficient of Utilization



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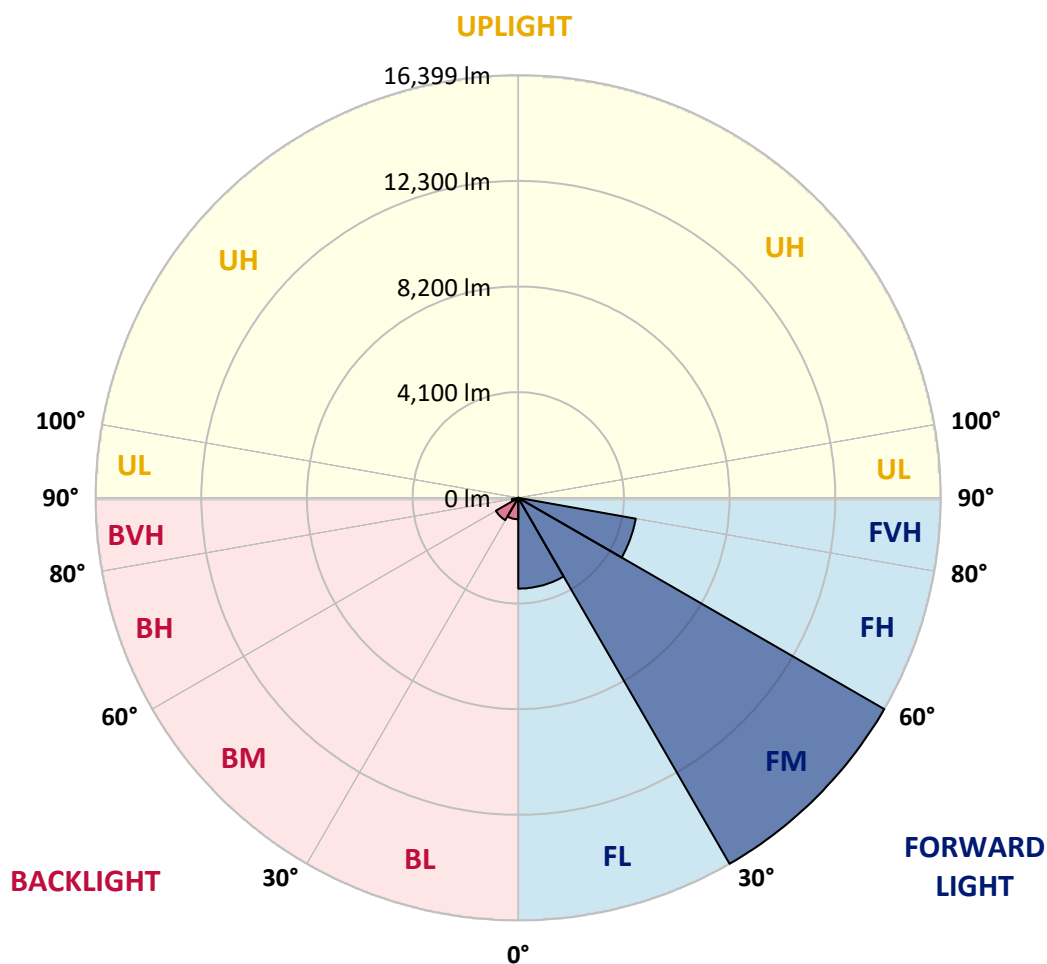
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3523.6	13.2			
FM	(30°-60°)	16399.4	61.5			
FH	(60°-80°)	4630.4	17.4			G2/5000
FVH	(80°-90°)	45.5	0.2			G1/100
BL	(0°-30°)	831.9	3.1	B2/1000		
BM	(30°-60°)	1000.8	3.8	B2/2500		
BH	(60°-80°)	247.8	0.9	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9
2.5°	7978.2	7877.7	7863.0	7843.2	7652.3	7509.3	7301.9	7074.9	6819.8	6559.9	6444.7
5°	9217.1	9138.1	9123.3	9031.2	8814.0	8570.4	8201.9	7736.3	7260.8	6701.3	6461.2
7.5°	9457.3	9442.5	9509.9	9506.7	9477.0	9284.6	8973.6	8419.0	7705.0	6875.8	6503.9
10°	8386.1	8424.1	8624.8	8800.8	9276.2	9552.7	9485.2	9027.9	8162.4	7074.9	6551.7
12.5°	7410.5	7366.1	7509.3	7708.3	8261.1	9083.8	9697.5	9536.3	8685.6	7300.3	6622.4
15°	6798.4	6780.4	6860.9	6953.1	7374.3	8203.6	9450.7	9949.3	9189.1	7566.9	6729.3
17.5°	6602.6	6587.9	6612.5	6635.5	6908.7	7550.4	8863.3	10202.6	9671.2	7871.2	6847.8
20°	6762.2	6742.6	6739.2	6721.1	6834.6	7272.3	8331.9	10220.7	10103.9	8147.6	6949.8
22.5°	7227.9	7204.8	7124.3	7051.8	7061.7	7310.1	8094.9	10039.8	10429.7	8405.9	7014.0
25°	8071.9	8034.1	7866.3	7622.7	7468.0	7573.4	8131.1	9801.2	10740.7	8608.3	6982.7
27.5°	9128.2	9078.8	8863.3	8501.3	8147.6	8019.3	8392.8	9636.6	10999.0	8762.9	6915.3
30°	10163.1	10098.9	9886.7	9605.4	9088.8	8684.0	8864.9	9709.0	11306.6	8924.2	6826.4
32.5°	11280.3	11219.4	10938.1	10589.3	10161.4	9616.9	9511.6	10062.7	11683.4	9149.6	6763.9
35°	12693.6	12598.2	12198.4	11722.9	11268.7	10717.6	10386.8	10673.1	12185.2	9493.4	6798.4
37.5°	14302.7	14174.4	13743.3	13086.9	12494.5	11877.5	11453.0	11512.3	12920.6	9954.2	6905.4
40°	15819.7	15702.9	15304.7	14686.1	13942.5	13193.8	12741.4	12609.8	13935.8	10515.2	7093.0
42.5°	16729.5	16624.3	16456.5	16194.9	15568.0	14804.6	14233.7	13949.0	15136.9	11186.5	7321.7
45°	16780.6	16688.4	16913.8	17218.3	17094.8	16586.4	15890.5	15369.0	16342.9	11816.7	7558.6
47.5°	15964.5	15902.0	16586.4	17649.3	18179.1	18393.0	17751.4	16670.4	17338.4	12269.1	7655.6
50°	13740.0	13717.0	15125.4	17076.7	18592.1	19975.8	19714.1	17881.3	18110.0	12502.7	7563.5
52.5°	11913.8	11829.8	12650.9	15243.9	17991.5	20808.3	21632.6	19069.2	18649.7	12547.2	7348.0
55°	9036.1	8962.1	9992.0	12177.0	16055.0	20512.2	23036.1	20295.0	19036.3	12433.7	6961.3
57.5°	4847.1	4801.0	6102.4	8104.9	12550.5	18735.3	23289.4	21591.5	19362.0	12132.5	6420.0
60°	1887.1	1878.9	2366.0	3932.3	7627.6	15242.3	22011.1	22369.7	19566.1	11762.4	5967.5
62.5°	1141.8	1166.6	1245.5	1765.5	3369.6	9468.8	19064.3	21484.5	19702.7	11423.4	5594.0
65°	944.4	946.1	955.9	1212.6	1614.1	3961.9	14352.0	18572.3	19365.3	10819.6	5064.3
67.5°	809.5	824.3	862.1	962.5	1138.6	1737.5	8262.7	14386.7	17313.7	9414.5	4238.4
70°	638.4	658.2	705.8	791.4	878.6	1087.5	3053.7	9572.5	13226.7	7096.3	3205.1
72.5°	538.0	536.4	561.1	643.3	697.6	765.1	1174.8	5363.7	7686.9	3387.7	1586.1
75°	416.3	432.8	464.0	538.0	570.9	554.4	636.7	1959.6	2754.3	1026.6	539.7
77.5°	325.7	339.0	367.0	439.3	472.2	393.2	367.0	700.9	885.2	368.6	243.5
80°	146.5	158.0	250.1	324.1	385.0	271.5	199.1	358.6	393.2	167.8	123.4
82.5°	26.3	44.4	146.5	171.1	197.4	176.1	103.6	185.9	192.5	67.4	42.7
85°	1.6	3.3	51.0	62.5	78.9	57.6	31.3	74.0	64.2	23.1	16.5
87.5°	0.0	0.0	0.0	1.6	1.6	8.2	9.8	13.1	9.8	8.2	6.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9	6429.9
2.5°	6326.2	6092.6	5865.6	5679.6	5571.1	5386.8	5265.0	5245.2	5194.3	5238.7
5°	6204.5	5786.5	5363.7	4985.3	4674.3	4272.9	3973.4	3846.7	3736.5	3774.4
7.5°	6146.9	5487.1	4829.0	4182.4	3517.7	2876.0	2398.9	2199.8	2048.5	2069.8
10°	6069.5	5176.1	4144.6	3157.4	2267.2	1633.8	1304.7	1183.0	1115.5	1117.1
12.5°	6010.3	4804.3	3349.9	2140.5	1380.5	1043.1	941.2	911.5	891.7	893.4
15°	5980.8	4366.7	2565.1	1426.5	987.2	883.6	858.8	845.7	832.5	830.9
17.5°	5931.4	3879.6	1877.3	1041.5	863.8	827.6	806.2	791.4	774.9	771.6
20°	5857.4	3326.8	1372.2	880.3	809.5	781.6	751.9	732.2	712.4	709.1
22.5°	5720.7	2742.7	1054.6	814.5	770.0	738.7	702.5	679.5	659.8	656.5
25°	5467.3	2194.8	888.5	773.3	735.4	697.6	658.2	626.9	608.7	605.5
27.5°	5146.5	1724.3	806.2	735.4	691.1	656.5	612.0	582.4	566.0	562.7
30°	4768.1	1327.8	758.5	692.7	638.4	608.7	569.3	544.6	534.7	534.7
32.5°	4360.0	1061.2	738.7	649.8	592.3	559.4	528.2	518.2	515.0	513.3
35°	3976.7	921.4	728.9	615.3	551.1	519.9	506.8	508.4	515.0	515.0
37.5°	3636.2	877.0	724.0	590.7	515.0	487.0	495.3	510.0	503.5	503.5
40°	3328.5	881.9	720.7	572.6	485.3	468.9	485.3	473.9	457.4	455.7
42.5°	3093.2	923.0	714.1	557.8	467.3	455.7	449.2	431.1	429.5	432.8
45°	2922.1	959.2	712.4	551.1	447.5	426.1	417.9	399.9	432.8	441.0
47.5°	2719.7	959.2	712.4	528.2	414.6	406.4	393.2	373.5	406.4	414.6
50°	2458.1	898.3	684.5	501.8	388.3	383.3	360.3	335.7	329.0	334.0
52.5°	2127.4	788.1	613.7	465.7	361.9	352.1	324.1	306.1	301.0	301.0
55°	1750.6	659.8	518.2	413.0	334.0	315.9	296.1	287.9	283.0	279.7
57.5°	1423.2	541.3	416.3	367.0	307.7	284.6	278.1	268.1	259.9	255.0
60°	1168.2	426.1	343.9	325.7	281.4	259.9	258.3	245.2	223.8	220.5
62.5°	901.6	312.6	289.6	283.0	255.0	236.9	233.6	207.4	174.4	167.8
65°	636.7	243.5	233.6	248.5	227.0	210.6	202.3	162.9	128.3	123.4
67.5°	447.5	204.0	184.3	217.2	197.4	176.1	171.1	138.2	106.9	103.6
70°	319.2	166.2	151.4	185.9	158.0	154.7	144.8	115.2	87.2	83.9
72.5°	225.4	126.7	116.8	161.2	108.5	133.2	118.5	88.9	65.8	62.5
75°	166.2	90.5	82.3	93.8	78.9	100.3	83.9	59.2	41.1	39.5
77.5°	121.8	57.6	49.4	46.0	46.0	62.5	46.0	24.7	18.1	16.5
80°	85.6	26.3	23.1	19.8	18.1	14.8	6.6	3.3	1.6	1.6
82.5°	51.0	11.5	11.5	8.2	4.9	0.0	0.0	0.0	0.0	0.0
85°	11.5	4.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	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

(END OF REPORT)