

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: P964553

Luminaire Tested: **NAV-SB3C-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964553
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-SB3C-735-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 19636.9 lumens
Efficiency: N/A
Efficacy: 131.7 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): 149.1
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

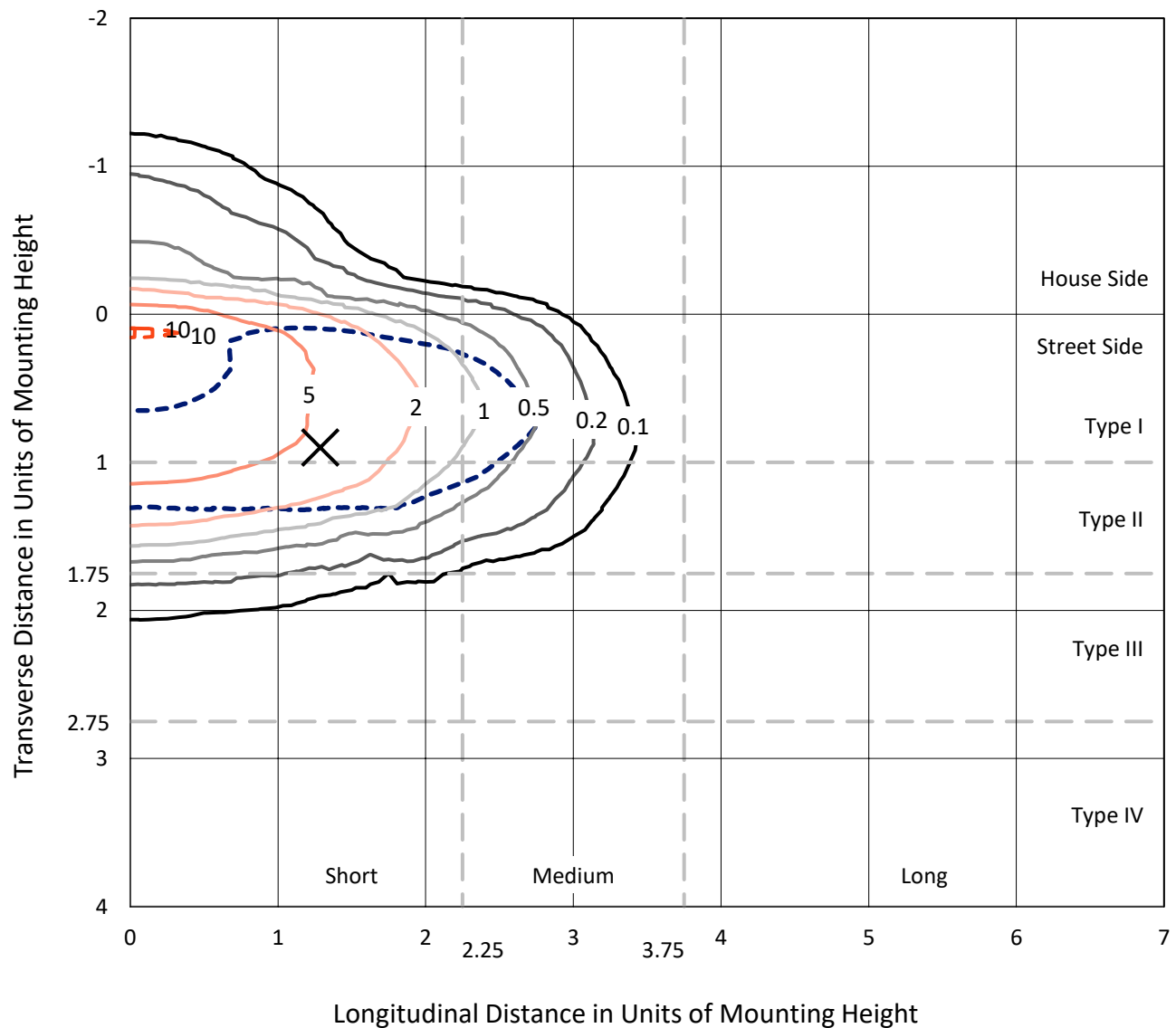


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



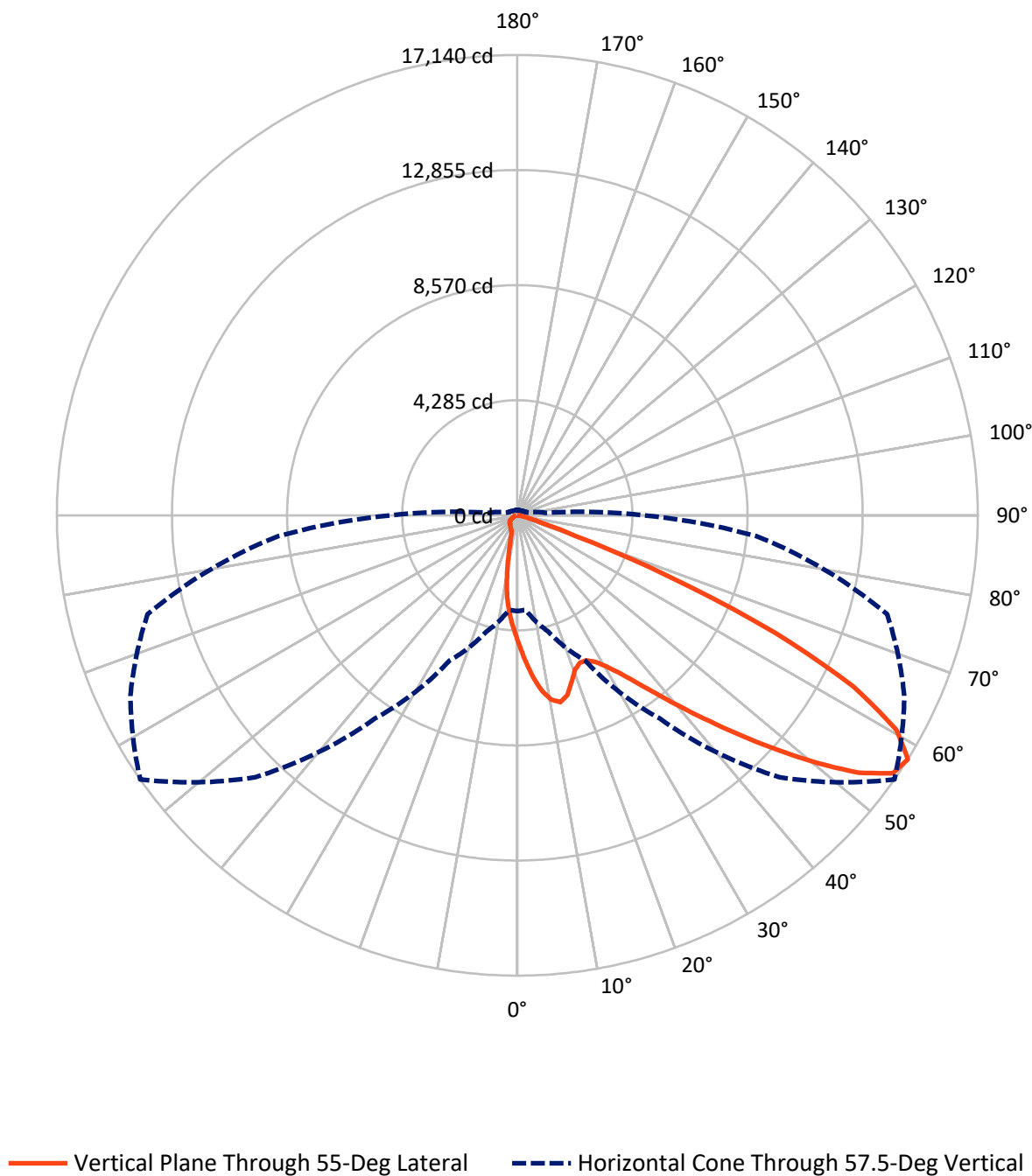
Based on 25 foot mounting height. Maximum calculated value = 10.8 fc

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	1533.6	0.0	1533.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	18103.4	0.0	18103.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	19636.9	0.0	19636.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.3	2.2
10°-20°	1063.5	5.4
20°-30°	1701.6	8.7
30°-40°	2880.1	14.7
40°-50°	4728.5	24.1
50°-60°	5196.9	26.5
60°-70°	2981.0	15.2
70°-80°	609.1	3.1
80°-90°	35.9	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°	19636.9	100.0
0°-180°	19636.9	100.0

Coefficient of Utilization



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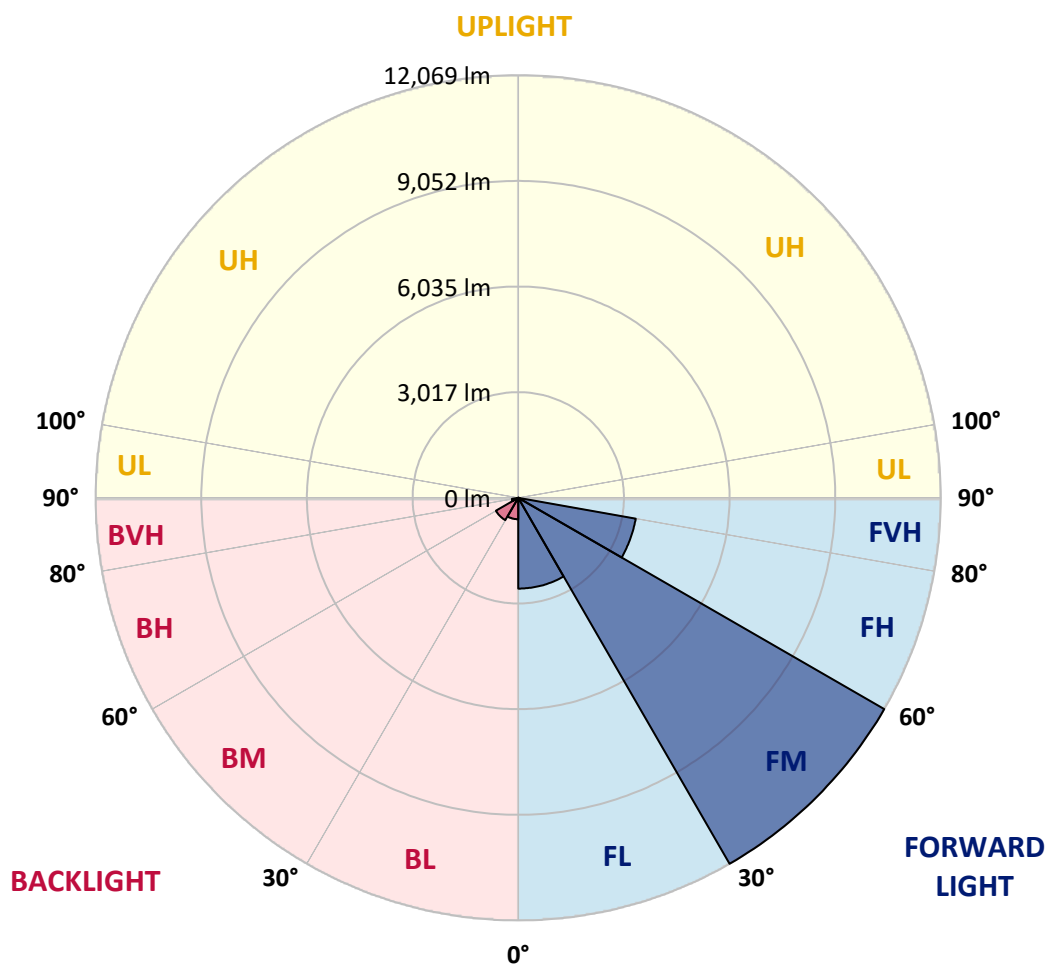
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2593.2	13.2			
FM	(30°-60°)	12069.0	61.5			
FH	(60°-80°)	3407.7	17.4			G2/5000
FVH	(80°-90°)	33.5	0.2			G1/100
BL	(0°-30°)	612.2	3.1	B2/1000		
BM	(30°-60°)	736.5	3.8	B1/1000		
BH	(60°-80°)	182.4	0.9	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0
2.5°	5871.4	5797.6	5786.6	5772.2	5631.7	5526.4	5373.8	5206.7	5019.0	4827.6	4742.9
5°	6783.2	6725.1	6714.2	6646.4	6486.5	6307.3	6036.1	5693.5	5343.5	4931.8	4755.1
7.5°	6960.0	6949.1	6998.7	6996.3	6974.5	6832.9	6604.0	6195.9	5670.4	5060.1	4786.5
10°	6171.7	6199.6	6347.3	6476.9	6826.8	7030.3	6980.6	6643.9	6007.0	5206.7	4821.6
12.5°	5453.7	5421.0	5526.4	5672.9	6079.7	6685.2	7136.8	7018.1	6392.1	5372.5	4873.7
15°	5003.2	4989.9	5049.3	5117.1	5427.1	6037.4	6955.1	7322.1	6762.6	5568.7	4952.4
17.5°	4859.1	4848.2	4866.4	4883.4	5084.4	5556.6	6522.9	7508.5	7117.4	5792.7	5039.6
20°	4976.6	4962.1	4959.7	4946.3	5029.9	5351.9	6131.8	7521.9	7435.9	5996.1	5114.6
22.5°	5319.2	5302.3	5243.0	5189.7	5197.0	5379.8	5957.4	7388.6	7675.6	6186.3	5161.9
25°	5940.5	5912.6	5789.1	5609.9	5496.0	5573.5	5984.1	7213.0	7904.5	6335.2	5138.8
27.5°	6717.8	6681.5	6522.9	6256.5	5996.1	5901.7	6176.5	7092.0	8094.5	6449.0	5089.2
30°	7479.4	7432.3	7276.1	7069.0	6688.7	6390.9	6524.1	7145.3	8320.9	6567.7	5023.8
32.5°	8301.6	8256.8	8049.7	7793.1	7478.2	7077.4	6999.9	7405.6	8598.3	6733.5	4977.8
35°	9341.7	9271.5	8977.3	8627.3	8293.2	7887.5	7644.1	7854.8	8967.6	6986.6	5003.2
37.5°	10525.9	10431.5	10114.3	9631.1	9195.3	8741.2	8428.8	8472.3	9508.8	7325.7	5082.0
40°	11642.4	11556.4	11263.4	10808.1	10260.8	9709.8	9376.9	9280.0	10255.9	7738.5	5220.0
42.5°	12312.0	12234.5	12111.0	11918.5	11457.1	10895.2	10475.1	10265.6	11139.9	8232.6	5388.3
45°	12349.5	12281.7	12447.6	12671.6	12580.7	12206.6	11694.4	11310.6	12027.5	8696.4	5562.7
47.5°	11749.0	11702.9	12206.6	12988.8	13378.7	13536.2	13063.9	12268.4	12760.0	9029.3	5634.1
50°	10111.8	10094.9	11131.4	12567.4	13682.6	14701.0	14508.5	13159.6	13327.9	9201.3	5566.3
52.5°	8767.8	8706.0	9310.3	11218.5	13240.7	15313.7	15920.3	14033.8	13725.1	9234.0	5407.7
55°	6650.0	6595.6	7353.6	8961.6	11815.5	15095.7	16953.2	14935.9	14009.6	9150.4	5123.2
57.5°	3567.2	3533.3	4491.0	5964.7	9236.4	13788.0	17139.6	15890.1	14249.3	8928.9	4724.7
60°	1388.9	1382.8	1741.2	2894.0	5613.5	11217.4	16198.8	16462.8	14399.5	8656.4	4391.8
62.5°	840.3	858.5	916.7	1299.3	2479.8	6968.5	14030.2	15811.3	14500.0	8406.9	4116.9
65°	695.1	696.3	703.5	892.4	1187.9	2915.7	10562.3	13668.2	14251.8	7962.6	3727.0
67.5°	595.7	606.6	634.5	708.4	837.9	1278.7	6080.9	10587.7	12741.8	6928.5	3119.2
70°	469.9	484.3	519.5	582.4	646.6	800.4	2247.3	7044.7	9734.0	5222.4	2358.7
72.5°	396.0	394.7	412.9	473.4	513.4	563.0	864.6	3947.4	5657.1	2493.1	1167.3
75°	306.4	318.5	341.4	396.0	420.1	408.1	468.6	1442.2	2026.9	755.5	397.2
77.5°	239.7	249.5	270.0	323.3	347.5	289.4	270.0	515.8	651.5	271.2	179.2
80°	107.7	116.2	184.1	238.5	283.3	199.8	146.5	263.9	289.4	123.5	90.8
82.5°	19.4	32.7	107.7	126.0	145.3	129.6	76.3	136.8	141.7	49.6	31.5
85°	1.2	2.5	37.5	46.0	58.1	42.3	23.0	54.5	47.3	16.9	12.1
87.5°	0.0	0.0	0.0	1.2	1.2	6.0	7.3	9.7	7.3	6.0	4.8
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°	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0	4732.0
2.5°	4655.8	4483.8	4316.7	4179.8	4100.0	3964.3	3874.7	3860.3	3822.6	3855.3
5°	4566.2	4258.6	3947.4	3668.9	3440.0	3144.6	2924.2	2830.9	2749.9	2777.7
7.5°	4523.7	4038.2	3553.9	3078.0	2588.8	2116.6	1765.5	1618.9	1507.5	1523.3
10°	4466.8	3809.3	3050.1	2323.7	1668.6	1202.4	960.2	870.6	820.9	822.2
12.5°	4423.3	3535.7	2465.3	1575.3	1015.9	767.7	692.6	670.9	656.3	657.5
15°	4401.5	3213.6	1887.7	1049.8	726.5	650.3	632.1	622.4	612.6	611.5
17.5°	4365.2	2855.2	1381.6	766.5	635.7	609.1	593.3	582.4	570.3	567.8
20°	4310.6	2448.3	1009.8	647.8	595.7	575.1	553.4	538.8	524.3	521.8
22.5°	4210.2	2018.5	776.1	599.4	566.7	543.7	517.0	500.1	485.5	483.1
25°	4023.6	1615.3	653.8	569.1	541.3	513.4	484.3	461.4	448.0	445.6
27.5°	3787.6	1268.9	593.3	541.3	508.6	483.1	450.5	428.7	416.6	414.1
30°	3509.1	977.1	558.2	509.7	469.9	448.0	418.9	400.8	393.5	393.5
32.5°	3208.8	781.0	543.7	478.3	435.9	411.6	388.7	381.4	379.0	377.8
35°	2926.7	678.0	536.4	452.8	405.6	382.6	372.9	374.1	379.0	379.0
37.5°	2676.0	645.3	532.8	434.7	379.0	358.4	364.5	375.4	370.5	370.5
40°	2449.5	649.0	530.3	421.4	357.2	345.1	357.2	348.7	336.6	335.4
42.5°	2276.4	679.3	525.5	410.5	343.9	335.4	330.6	317.2	316.0	318.5
45°	2150.4	705.9	524.3	405.6	329.3	313.6	307.6	294.3	318.5	324.5
47.5°	2001.5	705.9	524.3	388.7	305.1	299.1	289.4	274.9	299.1	305.1
50°	1809.0	661.1	503.7	369.3	285.8	282.1	265.2	247.0	242.2	245.8
52.5°	1565.6	580.0	451.6	342.7	266.4	259.1	238.5	225.2	221.6	221.6
55°	1288.3	485.5	381.4	303.9	245.8	232.5	217.9	211.9	208.3	205.8
57.5°	1047.3	398.4	306.4	270.0	226.4	209.5	204.6	197.4	191.3	187.7
60°	859.7	313.6	253.1	239.7	207.0	191.3	190.1	180.4	164.7	162.3
62.5°	663.6	230.1	213.1	208.3	187.7	174.4	171.9	152.5	128.3	123.5
65°	468.6	179.2	171.9	182.9	167.1	155.0	148.9	119.9	94.4	90.8
67.5°	329.3	150.2	135.6	159.8	145.3	129.6	126.0	101.7	78.7	76.3
70°	234.9	122.3	111.4	136.8	116.2	113.8	106.6	84.8	64.2	61.7
72.5°	165.8	93.3	86.0	118.7	79.9	98.1	87.2	65.4	48.5	46.0
75°	122.3	66.6	60.6	69.0	58.1	73.9	61.7	43.6	30.2	29.1
77.5°	89.6	42.3	36.3	33.9	33.9	46.0	33.9	18.1	13.3	12.1
80°	62.9	19.4	16.9	14.6	13.3	10.9	4.8	2.5	1.2	1.2
82.5°	37.5	8.5	8.5	6.0	3.6	0.0	0.0	0.0	0.0	0.0
85°	8.5	3.6	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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)