

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: P970495

Luminaire Tested: **NAV-SB6B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25339 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 220.4
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

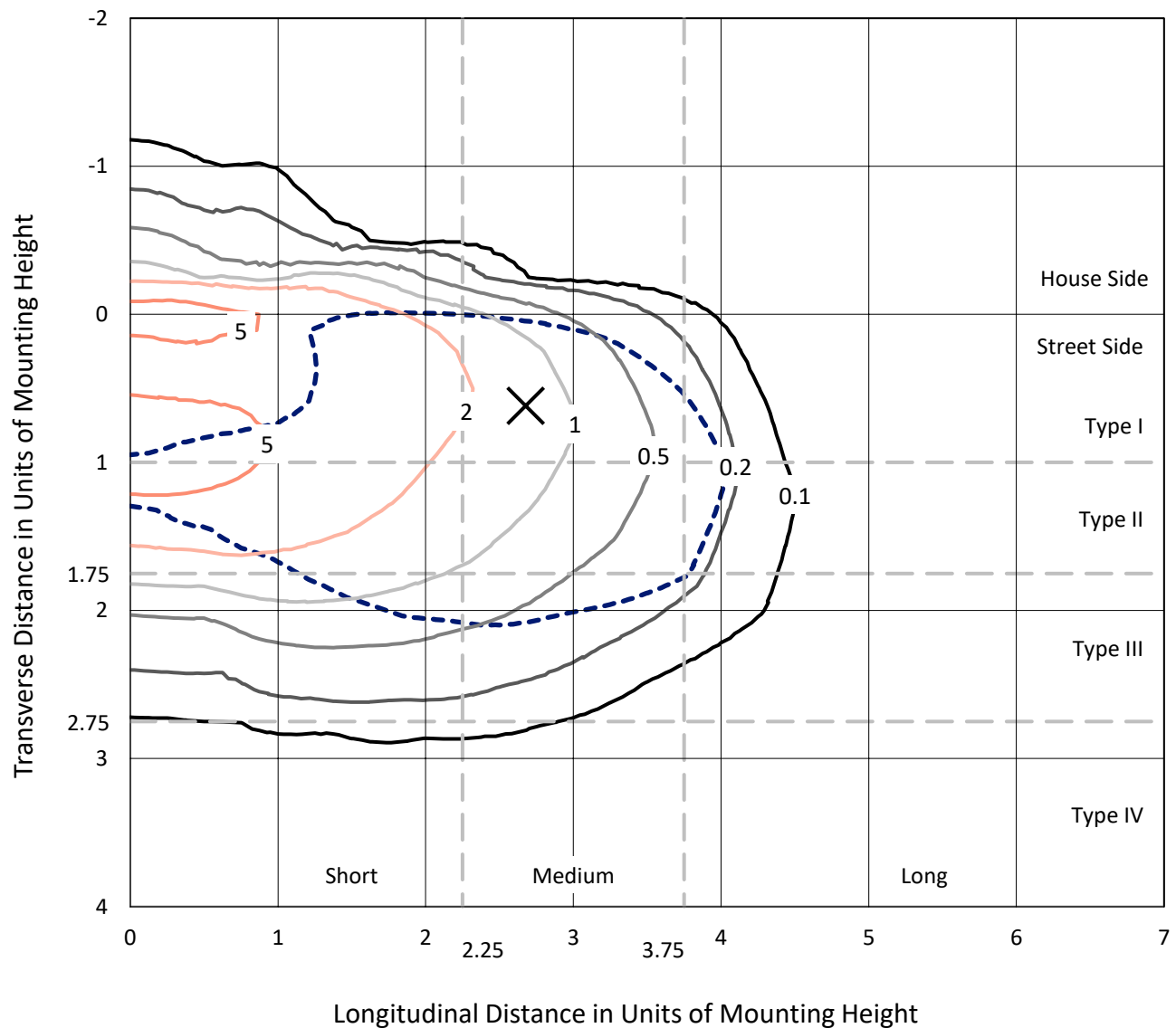


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Iso-Footcandle Lines of Horizontal Illumination

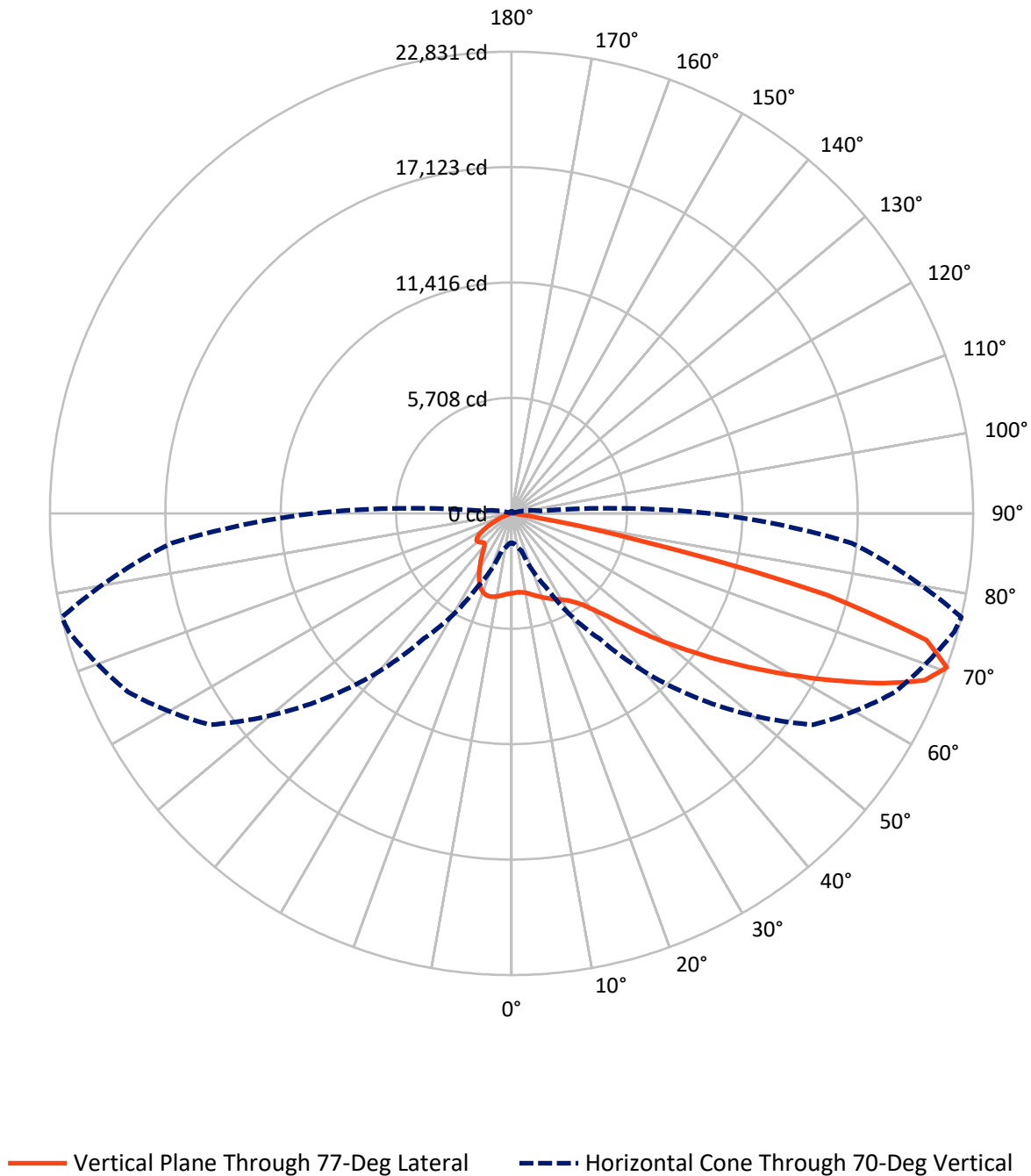
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.1	0.0	2671.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22667.9	0.0	22667.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	25339.0	0.0	25339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.6	1.3
10°-20°	808.6	3.2
20°-30°	1250.7	4.9
30°-40°	2269.5	9.0
40°-50°	4284.0	16.9
50°-60°	6190.0	24.4
60°-70°	6589.1	26.0
70°-80°	3491.8	13.8
80°-90°	114.7	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°	25339.0	100.0
0°-180°	25339.0	100.0

Coefficient of Utilization



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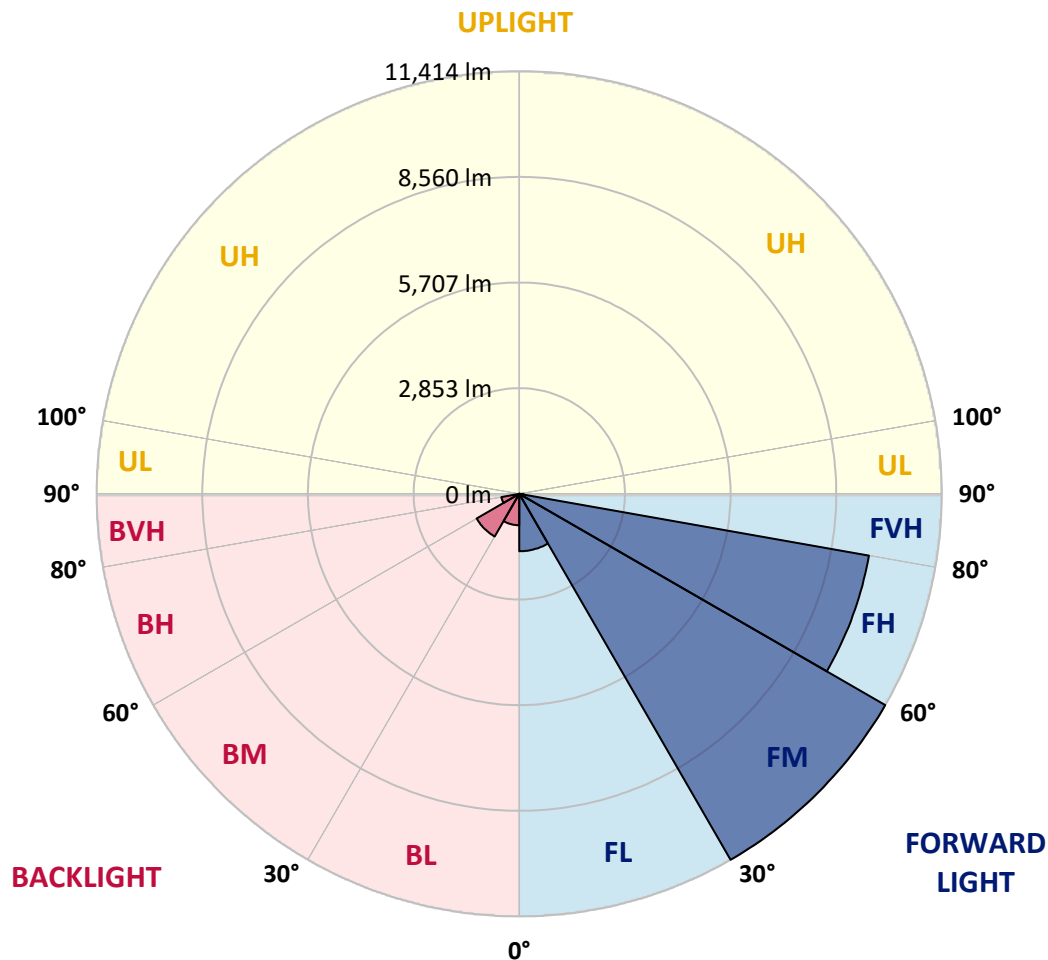
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.3	6.1			
FM	(30°-60°)	11413.8	45.0			
FH	(60°-80°)	9591.2	37.9			G4/12000
FVH	(80°-90°)	111.6	0.4			G2/225
BL	(0°-30°)	848.7	3.3	B2/1000		
BM	(30°-60°)	1329.7	5.2	B2/2500		
BH	(60°-80°)	489.7	1.9	B1/500		G1/500
BVH	(80°-90°)	3.1	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4
2.5°	3710.8	3744.4	3739.6	3762.1	3770.1	3802.0	3834.0	3877.3	3925.2	3923.6	3955.7
5°	3501.2	3534.8	3542.8	3573.2	3611.6	3661.2	3726.8	3813.2	3902.8	3917.2	3981.2
7.5°	3253.1	3288.4	3309.1	3370.0	3440.4	3542.8	3650.0	3776.4	3925.2	3946.0	4069.2
10°	3005.1	3037.2	3064.3	3150.7	3262.8	3414.8	3589.1	3771.6	3971.7	4002.0	4176.5
12.5°	2851.5	2881.9	2912.3	2987.6	3126.8	3312.4	3549.2	3794.0	4048.4	4091.6	4322.1
15°	2797.1	2824.3	2848.3	2915.5	3045.2	3256.3	3541.2	3840.4	4146.0	4203.6	4498.1
17.5°	2805.1	2819.5	2835.5	2886.7	3013.1	3230.8	3555.6	3920.4	4261.2	4312.5	4674.1
20°	2851.5	2859.5	2861.1	2896.3	3008.4	3227.5	3584.4	3997.2	4370.1	4438.9	4848.6
22.5°	2910.7	2913.9	2910.7	2934.7	3038.7	3251.5	3622.8	4090.1	4491.7	4555.7	5024.5
25°	3187.5	3126.8	3049.9	3003.6	3090.0	3297.9	3680.4	4214.9	4624.5	4686.9	5195.7
27.5°	4046.8	3872.4	3597.2	3288.4	3195.5	3365.2	3760.4	4341.3	4758.9	4814.9	5379.8
30°	5442.2	5213.4	4746.2	4050.1	3534.8	3506.0	3864.5	4467.7	4901.3	4962.1	5576.6
32.5°	6840.7	6784.8	6245.5	5282.1	4298.0	3819.7	4037.3	4638.9	5090.2	5138.1	5842.2
35°	8255.2	8141.7	7700.0	6748.0	5474.2	4458.1	4325.3	4862.9	5338.2	5392.6	6229.4
37.5°	9338.6	9269.8	8996.2	8212.1	6869.6	5443.8	4818.1	5210.2	5698.2	5759.1	6725.5
40°	10295.5	10263.5	10170.7	9653.9	8429.7	6733.5	5584.6	5747.8	6197.5	6269.5	7333.6
42.5°	11047.6	11122.8	11175.6	11031.6	10037.9	8205.7	6615.1	6503.1	6893.5	6967.1	8108.1
45°	11817.3	11842.8	12055.7	12263.7	11634.9	9745.1	7776.9	7388.0	7759.2	7850.5	9036.2
47.5°	12311.8	12414.2	12788.6	13155.1	12977.4	11271.6	9025.0	8432.9	8762.5	8933.8	10076.3
50°	12348.6	12542.2	13057.4	13695.8	13955.2	12724.6	10381.9	9623.4	9973.9	10162.7	11186.8
52.5°	11735.6	12036.5	12834.9	13769.5	14483.1	13955.2	11785.2	10814.0	11263.6	11510.0	12338.9
55°	8997.8	9391.5	11998.1	13369.5	14504.0	14888.0	13151.9	12054.1	12700.6	12979.1	13583.9
57.5°	7839.3	8037.6	9433.1	12674.9	14118.4	15264.1	14387.2	13235.0	14264.0	14609.6	14760.0
60°	6522.3	6783.1	7911.3	11538.8	13595.1	15300.9	15478.5	14758.4	15958.5	16347.4	15838.5
62.5°	4432.5	4715.7	5837.5	9586.6	12879.8	15283.3	16372.9	16326.6	17842.0	18259.6	16752.2
65°	2745.9	2923.5	3662.8	7828.0	11879.6	15302.4	17309.1	18230.8	19829.3	20253.4	17459.5
67.5°	2169.8	2251.4	2637.1	6010.3	10156.3	14870.4	18243.6	20021.4	21700.0	22036.0	17675.5
70°	1457.8	1507.4	1918.6	4029.3	7556.0	12876.6	18225.9	20920.7	22663.3	22831.3	16888.2
72.5°	768.0	806.5	1121.8	1865.8	4563.7	9153.0	15363.3	19845.3	21704.8	21451.9	14435.2
75°	384.1	448.0	755.3	947.3	1949.0	5104.6	9540.2	15646.5	17083.5	16104.2	9261.8
77.5°	291.2	352.1	624.0	624.0	678.4	1718.6	4040.4	8533.7	7871.3	6554.4	2718.7
80°	185.6	240.1	545.7	472.0	283.2	436.9	1052.9	2390.7	1672.2	1272.1	494.5
82.5°	108.9	156.8	454.5	312.0	158.5	161.6	297.7	508.8	433.7	337.6	152.0
85°	43.3	102.4	312.0	123.2	62.4	40.0	89.6	108.9	89.6	67.2	38.4
87.5°	0.0	24.0	54.4	0.0	4.8	3.2	6.4	8.0	8.0	6.4	12.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4	3952.4
2.5°	3970.0	3973.2	3982.8	3984.5	3962.0	3933.2	3922.1	3917.2	3898.1	3896.4	3899.6
5°	4018.0	4032.5	4018.0	3976.4	3877.3	3738.0	3632.4	3546.0	3467.6	3443.6	3429.1
7.5°	4114.0	4128.5	4085.2	3922.1	3672.4	3395.6	3145.9	2969.9	2811.5	2752.3	2728.3
10°	4251.7	4270.9	4134.8	3805.2	3363.5	2918.7	2496.3	2198.6	1966.6	1872.2	1832.2
12.5°	4424.5	4432.5	4162.0	3627.6	2961.9	2326.6	1728.2	1409.8	1203.4	1126.5	1102.5
15°	4614.9	4603.7	4165.3	3386.0	2414.7	1645.0	1128.1	926.5	843.3	817.6	817.6
17.5°	4814.9	4768.5	4101.2	3037.2	1814.6	1124.9	836.9	788.8	774.5	768.0	766.5
20°	5011.7	4907.7	3984.5	2581.1	1302.6	840.1	760.0	745.7	737.7	734.5	731.2
22.5°	5191.0	5013.4	3784.4	2051.4	945.7	742.5	718.5	705.7	691.3	684.9	683.3
25°	5365.4	5074.2	3502.7	1557.0	756.9	694.4	675.3	651.3	632.1	624.0	620.8
27.5°	5535.0	5112.6	3150.7	1152.1	675.3	649.6	614.5	580.9	566.4	563.2	560.1
30°	5715.8	5125.3	2750.7	859.3	625.7	593.7	542.4	504.1	496.1	497.6	497.6
32.5°	5936.7	5144.6	2347.5	704.1	584.0	526.4	465.7	425.7	419.2	425.7	424.0
35°	6200.6	5183.0	1958.6	648.1	547.2	457.7	392.1	358.4	352.1	356.8	355.3
37.5°	6559.1	5245.3	1595.4	636.8	516.9	400.1	329.6	302.5	302.5	304.0	302.5
40°	7036.0	5411.8	1270.5	628.8	500.8	356.8	278.4	267.2	272.0	275.2	275.2
42.5°	7616.9	5765.4	1051.3	619.3	483.3	337.6	252.9	248.0	256.0	259.2	259.2
45°	8268.1	6213.4	974.5	603.3	467.3	350.4	241.6	235.2	244.9	246.4	248.0
47.5°	8941.8	6651.9	964.9	585.7	451.2	369.6	238.4	224.1	235.2	236.8	238.4
50°	9623.4	6938.3	974.5	558.4	425.7	369.6	240.1	212.8	222.4	227.2	228.8
52.5°	10310.0	7069.5	968.1	499.3	380.9	347.3	240.1	203.3	212.8	216.1	216.1
55°	10975.6	7044.0	870.5	411.2	323.3	307.2	233.6	195.3	201.6	203.3	203.3
57.5°	11502.0	6687.1	689.7	320.0	262.4	256.0	212.8	185.6	190.4	188.8	188.8
60°	11777.2	5903.1	492.8	246.4	206.4	201.6	187.3	172.8	176.0	168.0	166.5
62.5°	11780.5	4866.1	329.6	195.3	164.8	160.0	160.0	155.2	152.0	136.0	131.2
65°	11529.3	3715.6	219.2	155.2	132.8	124.8	134.4	132.8	121.6	99.2	96.0
67.5°	10959.6	2435.5	166.5	121.6	102.4	97.6	107.2	112.0	104.0	83.2	81.6
70°	9788.2	1417.8	137.7	94.4	76.8	72.1	86.4	96.0	86.4	67.2	64.0
72.5°	8130.5	764.9	112.0	70.4	52.8	48.0	68.8	78.4	68.8	49.6	48.0
75°	5275.8	409.7	86.4	46.4	27.2	30.4	51.2	57.6	48.0	32.0	28.8
77.5°	1771.4	180.8	54.4	22.4	12.8	12.8	30.4	35.2	22.4	11.2	9.6
80°	395.2	75.2	22.4	9.6	4.8	4.8	6.4	6.4	3.2	0.0	0.0
82.5°	129.7	30.4	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.6	11.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	1.6	0.0	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)