

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: P885278

Luminaire Tested: **NAV-SB6C-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885278
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-SB6C-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 32308 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

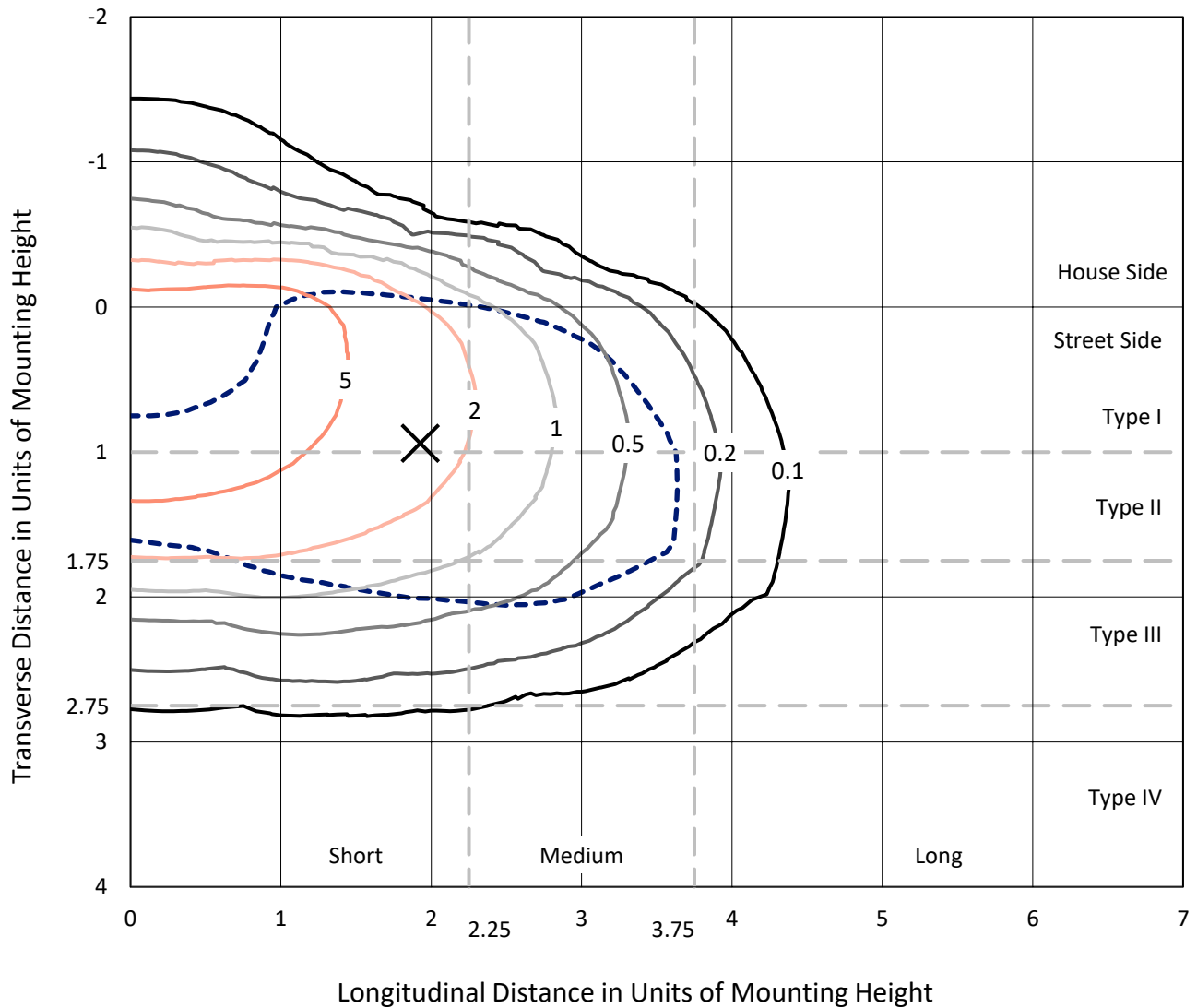
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

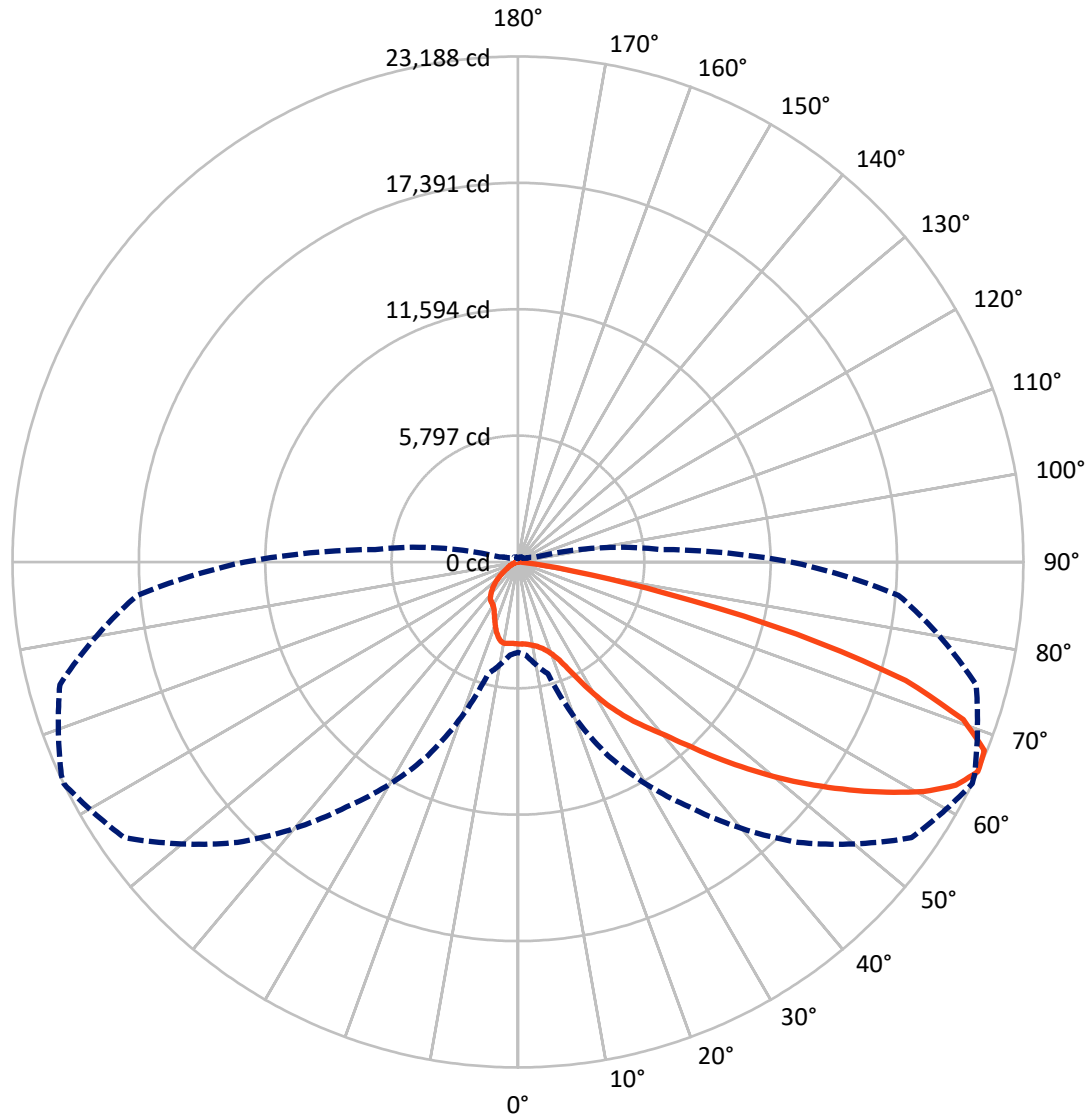
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4320.6	0.0	4320.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27987.4	0.0	27987.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	32308.0	0.0	32308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	1.1
10°-20°	940.3	2.9
20°-30°	1781.8	5.5
30°-40°	3605.6	11.2
40°-50°	6142.2	19.0
50°-60°	8352.9	25.9
60°-70°	7843.8	24.3
70°-80°	3142.5	9.7
80°-90°	152.2	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°	32308.0	100.0
0°-180°	32308.0	100.0

Coefficient of Utilization



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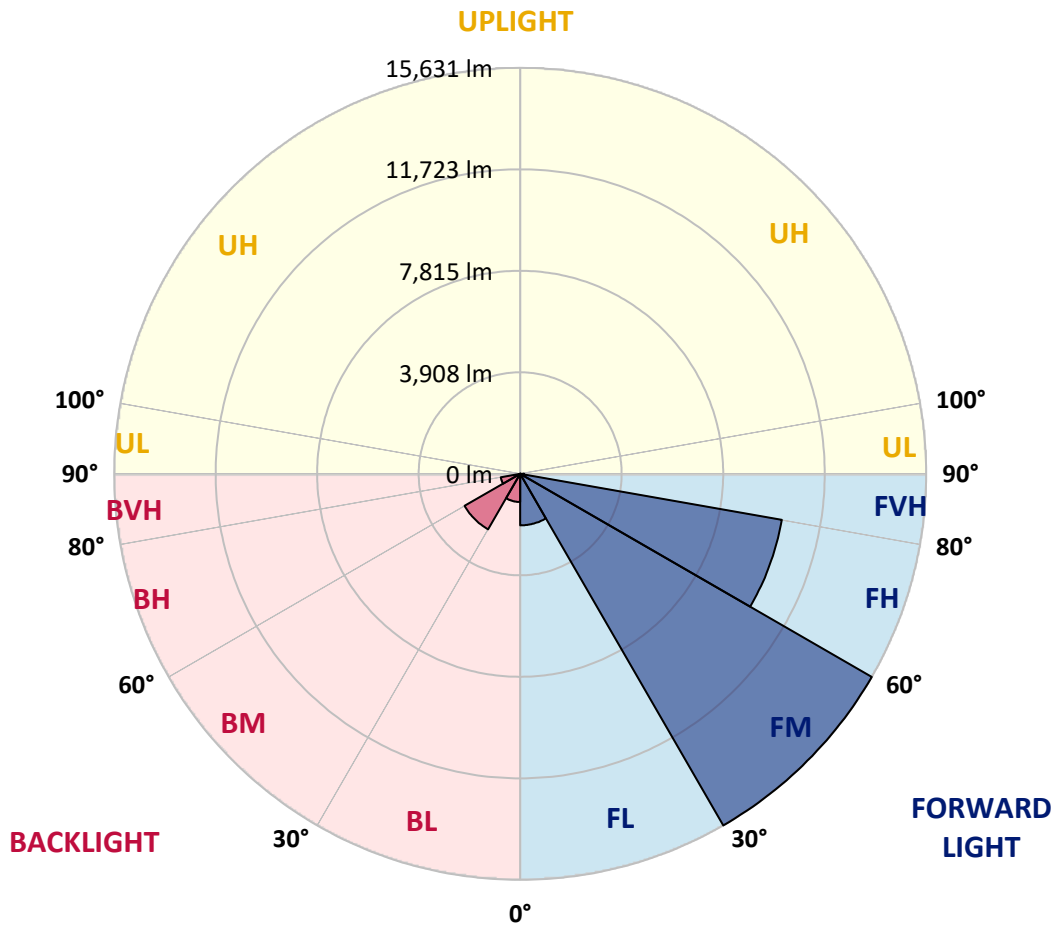
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.1	6.1			
FM (30°-60°)	15630.6	48.4			
FH (60°-80°)	10228.0	31.7			G4/12000
FVH (80°-90°)	144.8	0.4			G2/225
BL (0°-30°)	1084.8	3.4	B3/2500		
BM (30°-60°)	2470.0	7.6	B2/2500		
BH (60°-80°)	758.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8
2.5°	3744.8	3770.8	3764.3	3757.8	3755.6	3759.9	3762.1	3759.9	3759.9	3759.9	3762.1
5°	3673.3	3694.9	3694.9	3710.1	3731.8	3757.8	3777.2	3781.6	3785.9	3792.4	3790.2
7.5°	3536.8	3554.2	3567.2	3617.0	3671.1	3740.4	3798.9	3829.2	3833.6	3857.4	3866.0
10°	3443.7	3465.4	3487.0	3539.0	3617.0	3720.9	3820.6	3894.2	3905.0	3961.3	3987.3
12.5°	3439.4	3461.0	3489.2	3545.5	3636.5	3746.9	3868.2	3974.3	3993.8	4076.1	4130.3
15°	3484.9	3510.8	3536.8	3606.1	3703.6	3837.9	3967.8	4100.0	4119.5	4236.4	4294.9
17.5°	3578.0	3612.6	3632.1	3701.4	3805.4	3954.8	4126.0	4277.6	4294.9	4431.3	4505.0
20°	3762.1	3803.2	3809.7	3866.0	3967.8	4128.1	4331.7	4520.1	4541.8	4697.7	4780.0
22.5°	4143.3	4201.8	4149.8	4177.9	4268.9	4429.2	4650.1	4888.3	4918.7	5096.3	5169.9
25°	4814.7	4897.0	4762.7	4715.1	4754.0	4920.8	5198.0	5499.1	5533.8	5676.7	5713.5
27.5°	6133.7	6027.6	5824.0	5624.7	5507.8	5603.1	5914.9	6287.5	6330.8	6469.4	6426.1
30°	7582.7	7489.5	7214.5	6772.6	6495.4	6480.2	6768.3	7184.1	7234.0	7366.1	7234.0
32.5°	9033.8	8945.0	8646.1	8102.5	7621.6	7383.4	7582.7	8044.0	8070.0	8154.4	7959.5
35°	10461.1	10370.1	10071.2	9514.6	8923.3	8381.9	8342.9	8862.7	8871.3	8960.1	8669.9
37.5°	11897.0	11821.2	11502.8	10957.1	10374.4	9627.2	9265.5	9638.0	9648.9	9735.5	9434.5
40°	12921.5	12954.0	12735.2	12312.9	11812.6	10996.0	10300.8	10463.2	10398.3	10543.4	10363.6
42.5°	13800.8	13865.8	13675.2	13462.9	13172.7	12453.7	11583.0	11554.8	11450.9	11528.8	11342.6
45°	14561.0	14615.2	14444.1	14394.3	14387.8	13883.1	12984.3	12815.4	12670.2	12655.1	12432.0
47.5°	14840.4	14944.4	15018.0	15184.8	15509.7	15297.4	14433.2	14171.2	14008.7	13889.6	13536.6
50°	14946.6	15057.0	15308.3	15793.4	16562.3	16653.2	15875.7	15581.2	15381.9	15165.3	14645.5
52.5°	14803.6	15000.7	15338.6	16155.1	17270.5	17740.5	17259.7	17002.0	16774.5	16421.5	15650.5
55°	13961.1	14158.2	14849.1	16150.8	17623.6	18502.9	18567.9	18453.1	18197.5	17640.9	16462.7
57.5°	12185.1	12477.5	13571.2	15600.6	17617.1	19159.1	19850.0	19932.4	19646.5	18849.4	17101.6
60°	9724.7	10121.0	11455.2	14381.3	17073.4	19514.3	20974.1	21385.6	21082.4	20040.6	17619.2
62.5°	6785.6	7244.8	8507.5	12471.0	15830.2	19258.8	21795.0	22555.2	22325.6	21106.2	17818.5
65°	4138.9	4286.2	5304.2	9813.5	13716.4	18188.8	22048.4	23187.6	23111.8	21758.2	17523.9
67.5°	2757.1	2880.6	3173.0	6729.3	10647.3	16051.1	21441.9	23077.2	23098.8	21652.0	16445.3
70°	1661.2	1767.3	1957.9	3913.7	6900.4	12704.9	19564.2	21669.4	21795.0	20233.4	14400.8
72.5°	684.4	755.9	929.2	1773.8	3573.7	8063.5	15579.0	18604.7	18897.1	17012.8	11052.4
75°	387.7	424.5	545.8	890.2	1550.8	3757.8	9436.6	13207.4	13638.4	11725.9	6649.2
77.5°	257.7	275.1	353.0	576.1	872.8	1282.2	4032.8	6880.9	7703.9	6404.4	2878.4
80°	173.3	188.4	242.6	385.5	567.5	550.1	1284.4	2549.2	3136.2	2200.5	701.7
82.5°	117.0	119.1	173.3	253.4	359.5	266.4	379.0	792.7	996.3	636.8	266.4
85°	67.1	65.0	127.8	147.3	160.3	110.5	114.8	238.2	311.9	268.6	151.6
87.5°	8.7	13.0	49.8	39.0	21.7	23.8	23.8	41.2	60.6	65.0	32.5
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°	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8
2.5°	3762.1	3759.9	3753.4	3746.9	3731.8	3723.1	3727.4	3723.1	3720.9	3723.1	3731.8
5°	3790.2	3783.7	3766.4	3744.8	3714.4	3677.6	3653.8	3619.1	3586.7	3567.2	3571.5
7.5°	3866.0	3859.6	3835.7	3775.1	3677.6	3523.8	3383.1	3259.6	3166.5	3112.3	3114.5
10°	3987.3	3976.5	3939.7	3805.4	3549.8	3214.1	2934.7	2703.0	2551.4	2479.9	2473.4
12.5°	4130.3	4117.3	4052.3	3777.2	3307.3	2783.1	2397.6	2139.9	1999.1	1936.3	1929.8
15°	4299.2	4281.9	4154.1	3643.0	2954.2	2306.6	1953.6	1760.8	1669.9	1613.6	1615.7
17.5°	4509.3	4479.0	4229.9	3441.5	2570.9	1942.8	1680.7	1535.6	1455.5	1401.3	1397.0
20°	4782.2	4732.4	4290.6	3201.1	2217.8	1713.2	1496.6	1375.3	1314.7	1267.0	1258.4
22.5°	5163.4	5091.9	4364.2	2941.2	1968.8	1555.1	1360.2	1271.4	1221.5	1167.4	1158.7
25°	5635.6	5551.1	4455.2	2700.8	1797.7	1418.6	1260.5	1186.9	1128.4	1065.6	1059.1
27.5°	6296.1	6144.5	4563.5	2503.7	1650.4	1301.7	1169.6	1087.3	1020.1	968.1	957.3
30°	7032.5	6783.5	4658.8	2384.6	1516.1	1193.4	1050.4	968.1	905.3	868.5	862.0
32.5°	7729.9	7392.1	4721.6	2332.6	1394.8	1069.9	920.5	831.7	784.0	773.2	779.7
35°	8388.4	7942.2	4715.1	2282.8	1286.5	946.5	792.7	701.7	664.9	671.4	671.4
37.5°	9146.4	8529.1	4669.6	2204.8	1197.7	833.9	682.2	602.1	569.6	571.8	580.4
40°	10027.9	9207.0	4641.4	2057.6	1100.3	729.9	591.3	526.3	502.5	493.8	491.6
42.5°	10967.9	9863.3	4645.8	1890.8	979.0	636.8	528.5	474.3	452.7	446.2	444.0
45°	11912.2	10489.2	4652.3	1717.5	851.2	565.3	483.0	437.5	424.5	415.8	415.8
47.5°	12800.2	11022.0	4531.0	1531.3	725.6	511.1	446.2	415.8	405.0	394.2	394.2
50°	13627.6	11377.2	4238.6	1314.7	625.9	467.8	418.0	396.4	385.5	374.7	374.7
52.5°	14270.8	11433.5	3755.6	1091.6	556.6	435.3	400.7	381.2	368.2	357.4	355.2
55°	14556.7	11080.5	3069.0	883.7	502.5	407.2	383.4	363.9	348.7	337.9	335.7
57.5°	14483.1	10337.6	2393.3	710.4	450.5	379.0	361.7	348.7	331.4	314.0	311.9
60°	14121.4	9343.5	1804.2	591.3	402.8	348.7	337.9	327.0	303.2	277.2	272.9
62.5°	13495.4	8093.8	1286.5	489.5	350.9	314.0	309.7	301.1	266.4	218.8	214.4
65°	12538.1	6575.5	866.3	407.2	301.1	275.1	277.2	262.1	216.6	162.4	158.1
67.5°	11139.0	4808.2	554.5	333.5	251.2	229.6	231.7	223.1	184.1	138.6	132.1
70°	9356.5	3183.8	361.7	253.4	201.4	177.6	190.6	192.8	155.9	112.6	108.3
72.5°	6859.3	1880.0	253.4	188.4	147.3	123.5	155.9	160.3	125.6	84.5	80.1
75°	3909.4	892.3	190.6	136.4	91.0	86.6	121.3	121.3	86.6	56.3	52.0
77.5°	1641.7	372.5	134.3	88.8	52.0	49.8	82.3	75.8	43.3	26.0	26.0
80°	474.3	166.8	71.5	43.3	21.7	19.5	32.5	23.8	10.8	4.3	4.3
82.5°	186.3	73.6	28.2	17.3	8.7	8.7	4.3	0.0	0.0	0.0	0.0
85°	110.5	30.3	13.0	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	6.5	4.3	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)