

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: P885348

Luminaire Tested: **NAV-SB6C-830-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885348
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-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 31194 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

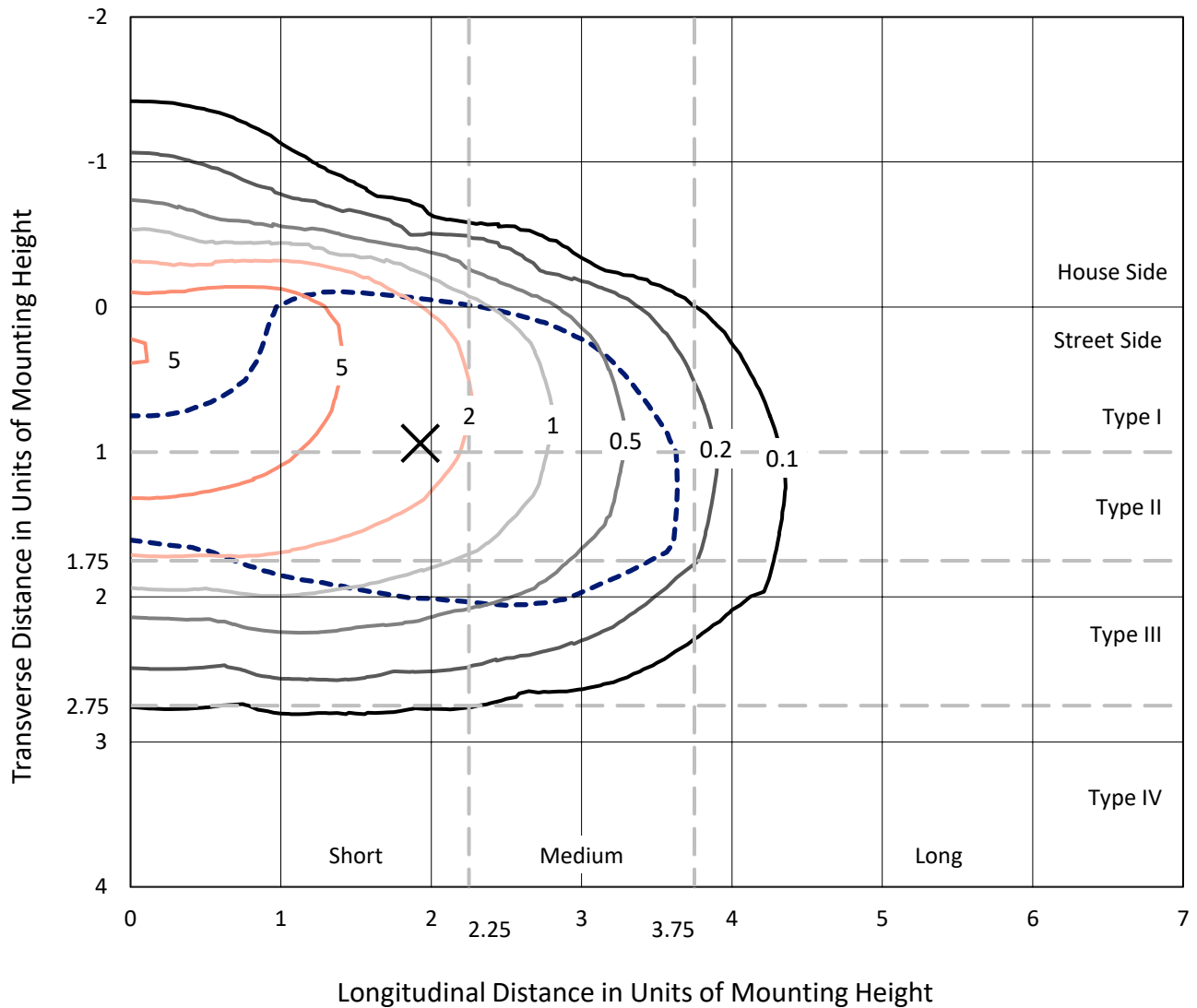
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

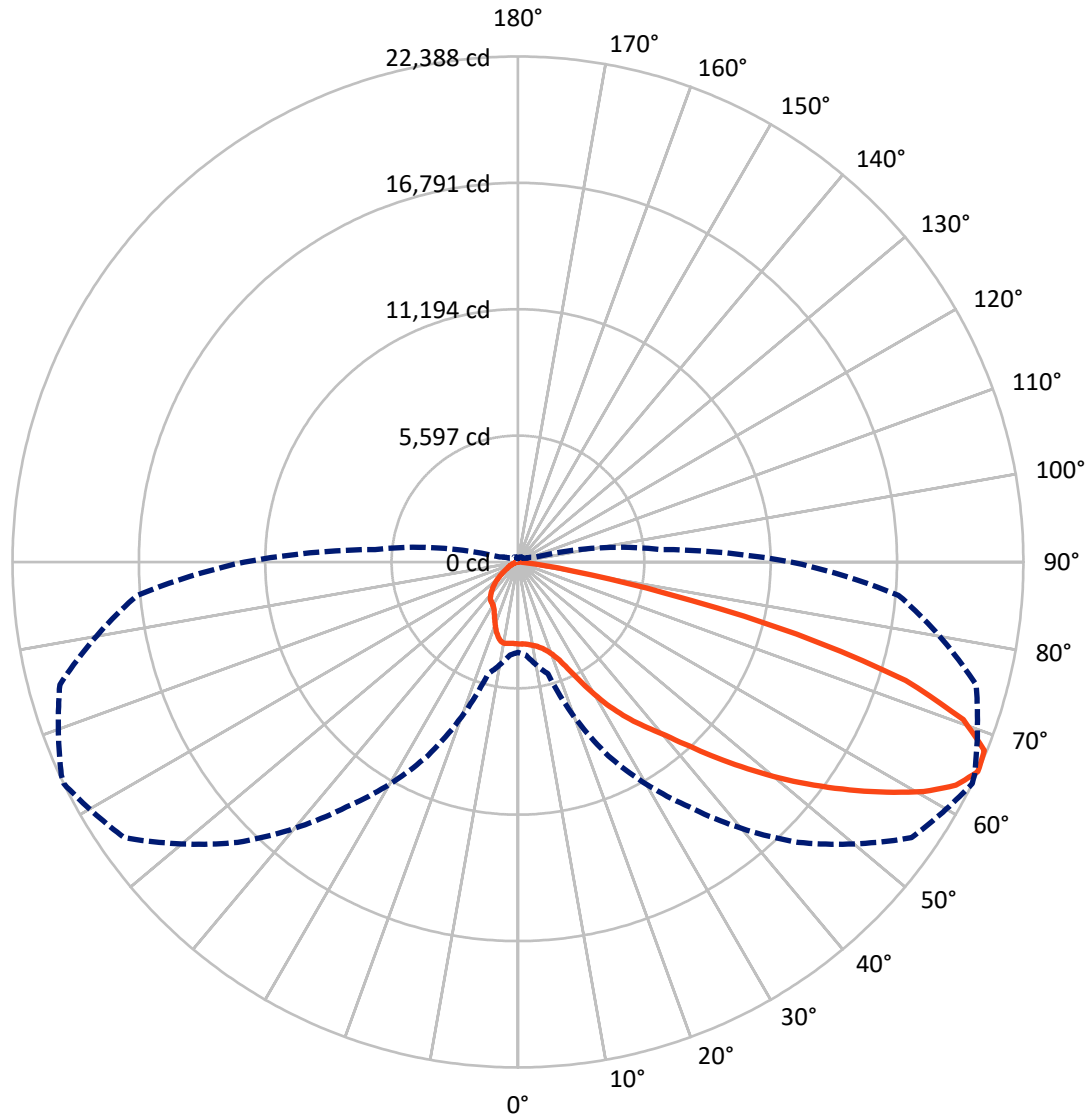
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4171.6	0.0	4171.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27022.4	0.0	27022.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	31194.0	0.0	31194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.7	1.1
10°-20°	907.9	2.9
20°-30°	1720.4	5.5
30°-40°	3481.3	11.2
40°-50°	5930.4	19.0
50°-60°	8064.8	25.9
60°-70°	7573.3	24.3
70°-80°	3034.2	9.7
80°-90°	147.0	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°	31194.0	100.0
0°-180°	31194.0	100.0

Coefficient of Utilization



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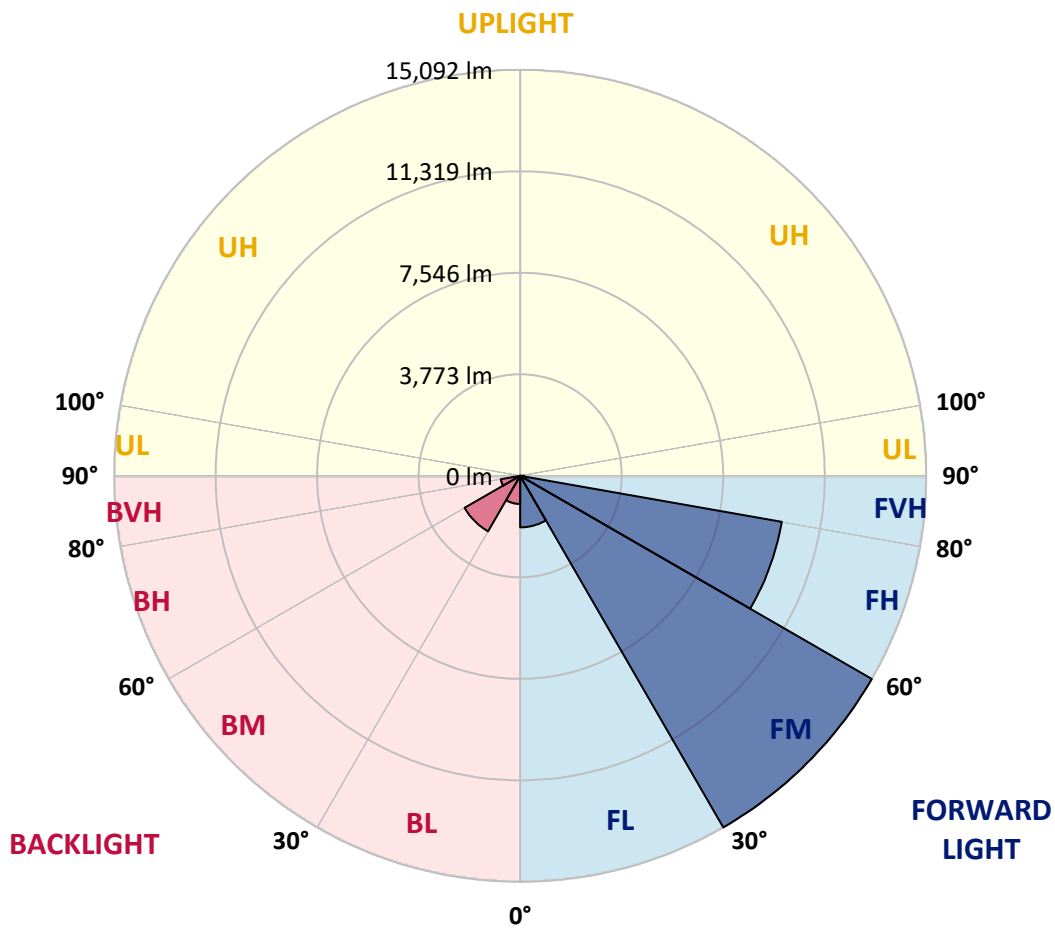
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.7	6.1			
FM (30°-60°)	15091.6	48.4			
FH (60°-80°)	9875.3	31.7			G4/12000
FVH (80°-90°)	139.8	0.4			G2/225
BL (0°-30°)	1047.4	3.4	B3/2500		
BM (30°-60°)	2384.9	7.6	B2/2500		
BH (60°-80°)	732.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.2	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°	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2
2.5°	3615.6	3640.7	3634.5	3628.2	3626.1	3630.3	3632.4	3630.3	3630.3	3630.3	3632.4
5°	3546.6	3567.5	3567.5	3582.2	3603.1	3628.2	3647.0	3651.2	3655.4	3661.6	3659.6
7.5°	3414.9	3431.6	3444.2	3492.3	3544.5	3611.5	3667.9	3697.2	3701.4	3724.4	3732.7
10°	3325.0	3345.9	3366.8	3417.0	3492.3	3592.6	3688.8	3759.9	3770.4	3824.8	3849.9
12.5°	3320.8	3341.7	3368.9	3423.3	3511.1	3617.7	3734.8	3837.3	3856.1	3935.6	3987.9
15°	3364.7	3389.8	3414.9	3481.8	3575.9	3705.6	3831.0	3958.6	3977.4	4090.3	4146.8
17.5°	3454.6	3488.1	3506.9	3573.8	3674.2	3818.5	3983.7	4130.1	4146.8	4278.5	4349.6
20°	3632.4	3672.1	3678.4	3732.7	3831.0	3985.8	4182.3	4364.3	4385.2	4535.8	4615.2
22.5°	4000.4	4056.9	4006.7	4033.9	4121.7	4276.4	4489.7	4719.8	4749.1	4920.5	4991.6
25°	4648.7	4728.1	4598.5	4552.5	4590.1	4751.1	5018.8	5309.5	5342.9	5481.0	5516.5
27.5°	5922.2	5819.7	5623.2	5430.8	5317.9	5409.9	5711.0	6070.7	6112.5	6246.3	6204.5
30°	7321.2	7231.3	6965.7	6539.1	6271.4	6256.8	6534.9	6936.4	6984.5	7112.1	6984.5
32.5°	8722.3	8636.5	8348.0	7823.1	7358.8	7128.8	7321.2	7766.6	7791.7	7873.3	7685.1
35°	10100.4	10012.5	9724.0	9186.5	8615.6	8092.8	8055.2	8557.1	8565.4	8651.2	8371.0
37.5°	11486.8	11413.6	11106.2	10579.2	10016.7	9295.3	8946.0	9305.7	9316.2	9399.8	9109.2
40°	12475.9	12507.3	12296.1	11888.3	11405.3	10616.9	9945.6	10102.5	10039.7	10179.8	10006.3
42.5°	13325.0	13387.7	13203.7	12998.7	12718.5	12024.2	11183.6	11156.4	11056.0	11131.3	10951.5
45°	14059.0	14111.2	13946.0	13897.9	13891.7	13404.4	12536.6	12373.5	12233.4	12218.7	12003.3
47.5°	14328.7	14429.1	14500.2	14661.2	14974.9	14770.0	13935.6	13682.5	13525.7	13410.7	13069.8
50°	14431.2	14537.8	14780.4	15248.8	15991.2	16079.0	15328.3	15043.9	14851.5	14642.4	14140.5
52.5°	14293.2	14483.5	14809.7	15598.1	16675.0	17128.8	16664.6	16415.7	16196.1	15855.3	15110.8
55°	13479.7	13670.0	14337.1	15593.9	17015.9	17864.9	17927.6	17816.8	17570.0	17032.6	15895.0
57.5°	11764.9	12047.3	13103.3	15062.7	17009.6	18498.5	19165.6	19245.1	18969.0	18199.5	16511.9
60°	9389.4	9772.1	11060.2	13885.4	16484.7	18841.5	20250.9	20648.2	20355.5	19349.6	17011.7
62.5°	6551.6	6995.0	8214.1	12041.0	15284.4	18594.7	21043.5	21777.5	21555.8	20378.5	17204.1
65°	3996.2	4138.4	5121.3	9475.1	13243.4	17561.7	21288.1	22388.1	22314.9	21007.9	16919.7
67.5°	2662.1	2781.3	3063.6	6497.3	10280.2	15497.7	20702.6	22281.5	22302.4	20905.5	15878.3
70°	1603.9	1706.4	1890.4	3778.8	6662.5	12266.8	18889.6	20922.2	21043.5	19535.7	13904.2
72.5°	660.8	729.8	897.1	1712.7	3450.4	7785.4	15041.8	17963.2	18245.5	16426.2	10671.3
75°	374.3	409.9	527.0	859.5	1497.3	3628.2	9111.2	12752.0	13168.1	11321.6	6419.9
77.5°	248.8	265.6	340.9	556.3	842.7	1238.0	3893.8	6643.7	7438.3	6183.6	2779.2
80°	167.3	181.9	234.2	372.2	547.9	531.2	1240.1	2461.3	3028.0	2124.6	677.5
82.5°	112.9	115.0	167.3	244.7	347.1	257.2	366.0	765.4	961.9	614.8	257.2
85°	64.8	62.7	123.4	142.2	154.7	106.6	110.8	230.0	301.1	259.3	146.4
87.5°	8.4	12.5	48.1	37.6	20.9	23.0	23.0	39.7	58.6	62.7	31.4
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°	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2	3628.2
2.5°	3632.4	3630.3	3624.0	3617.7	3603.1	3594.7	3598.9	3594.7	3592.6	3594.7	3603.1
5°	3659.6	3653.3	3636.6	3615.6	3586.4	3550.8	3527.8	3494.4	3463.0	3444.2	3448.3
7.5°	3732.7	3726.5	3703.5	3644.9	3550.8	3402.3	3266.4	3147.2	3057.3	3005.0	3007.1
10°	3849.9	3839.4	3803.8	3674.2	3427.4	3103.3	2833.5	2609.8	2463.4	2394.4	2388.1
12.5°	3987.9	3975.3	3912.6	3647.0	3193.2	2687.2	2314.9	2066.1	1930.2	1869.5	1863.2
15°	4151.0	4134.3	4010.9	3517.4	2852.4	2227.1	1886.2	1700.1	1612.3	1557.9	1560.0
17.5°	4353.8	4324.5	4084.1	3322.9	2482.2	1875.8	1622.8	1482.6	1405.3	1353.0	1348.8
20°	4617.3	4569.2	4142.6	3090.8	2141.4	1654.1	1445.0	1327.9	1269.3	1223.3	1215.0
22.5°	4985.4	4916.3	4213.7	2839.8	1900.9	1501.5	1313.3	1227.5	1179.4	1127.1	1118.8
25°	5441.2	5359.7	4301.5	2607.7	1735.7	1369.7	1217.1	1146.0	1089.5	1028.9	1022.6
27.5°	6079.0	5932.7	4406.1	2417.4	1593.5	1256.8	1129.2	1049.8	984.9	934.8	924.3
30°	6790.0	6549.6	4498.1	2302.4	1463.8	1152.2	1014.2	934.8	874.1	838.6	832.3
32.5°	7463.4	7137.2	4558.8	2252.2	1346.7	1033.0	888.7	803.0	757.0	746.5	752.8
35°	8099.1	7668.3	4552.5	2204.1	1242.2	913.8	765.4	677.5	642.0	648.3	648.3
37.5°	8831.0	8235.0	4508.6	2128.8	1156.4	805.1	658.7	581.3	550.0	552.1	560.4
40°	9682.1	8889.6	4481.4	1986.6	1062.3	704.7	570.9	508.2	485.2	476.8	474.7
42.5°	10589.7	9523.2	4485.6	1825.6	945.2	614.8	510.2	458.0	437.1	430.8	428.7
45°	11501.5	10127.6	4491.8	1658.3	821.8	545.8	466.3	422.4	409.9	401.5	401.5
47.5°	12358.8	10642.0	4374.7	1478.5	700.5	493.5	430.8	401.5	391.0	380.6	380.6
50°	13157.7	10984.9	4092.4	1269.3	604.3	451.7	403.6	382.7	372.2	361.8	361.8
52.5°	13778.7	11039.3	3626.1	1054.0	537.4	420.3	386.9	368.0	355.5	345.0	343.0
55°	14054.8	10698.4	2963.2	853.2	485.2	393.1	370.1	351.3	336.7	326.2	324.1
57.5°	13983.7	9981.2	2310.7	685.9	435.0	366.0	349.2	336.7	319.9	303.2	301.1
60°	13634.5	9021.3	1741.9	570.9	389.0	336.7	326.2	315.8	292.8	267.7	263.5
62.5°	13030.1	7814.7	1242.2	472.6	338.8	303.2	299.0	290.7	257.2	211.2	207.0
65°	12105.8	6348.8	836.5	393.1	290.7	265.6	267.7	253.0	209.1	156.8	152.7
67.5°	10754.9	4642.4	535.3	322.0	242.6	221.7	223.8	215.4	177.7	133.8	127.6
70°	9033.9	3074.0	349.2	244.7	194.5	171.5	184.0	186.1	150.6	108.7	104.6
72.5°	6622.7	1815.1	244.7	181.9	142.2	119.2	150.6	154.7	121.3	81.6	77.4
75°	3774.6	861.6	184.0	131.7	87.8	83.6	117.1	117.1	83.6	54.4	50.2
77.5°	1585.1	359.7	129.7	85.7	50.2	48.1	79.5	73.2	41.8	25.1	25.1
80°	458.0	161.0	69.0	41.8	20.9	18.8	31.4	23.0	10.5	4.2	4.2
82.5°	179.8	71.1	27.2	16.7	8.4	8.4	4.2	0.0	0.0	0.0	0.0
85°	106.6	29.3	12.5	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.2	6.3	4.2	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	0.0

(END OF REPORT)