

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: P885268

Luminaire Tested: **NAV-SB6C-722-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885268  
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-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

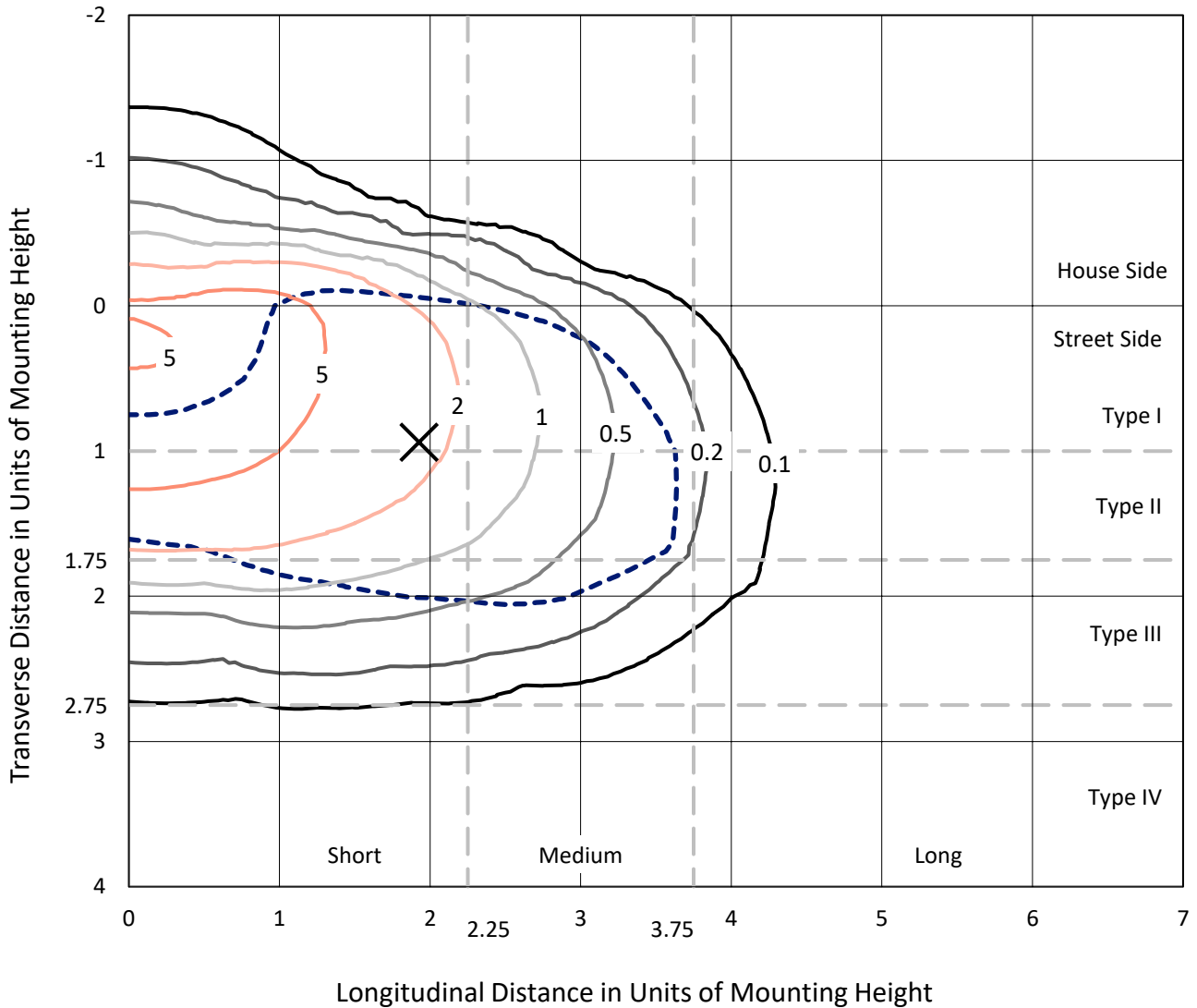
Lumens per Lamp: N/A  
Luminaire Lumens: 28409 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

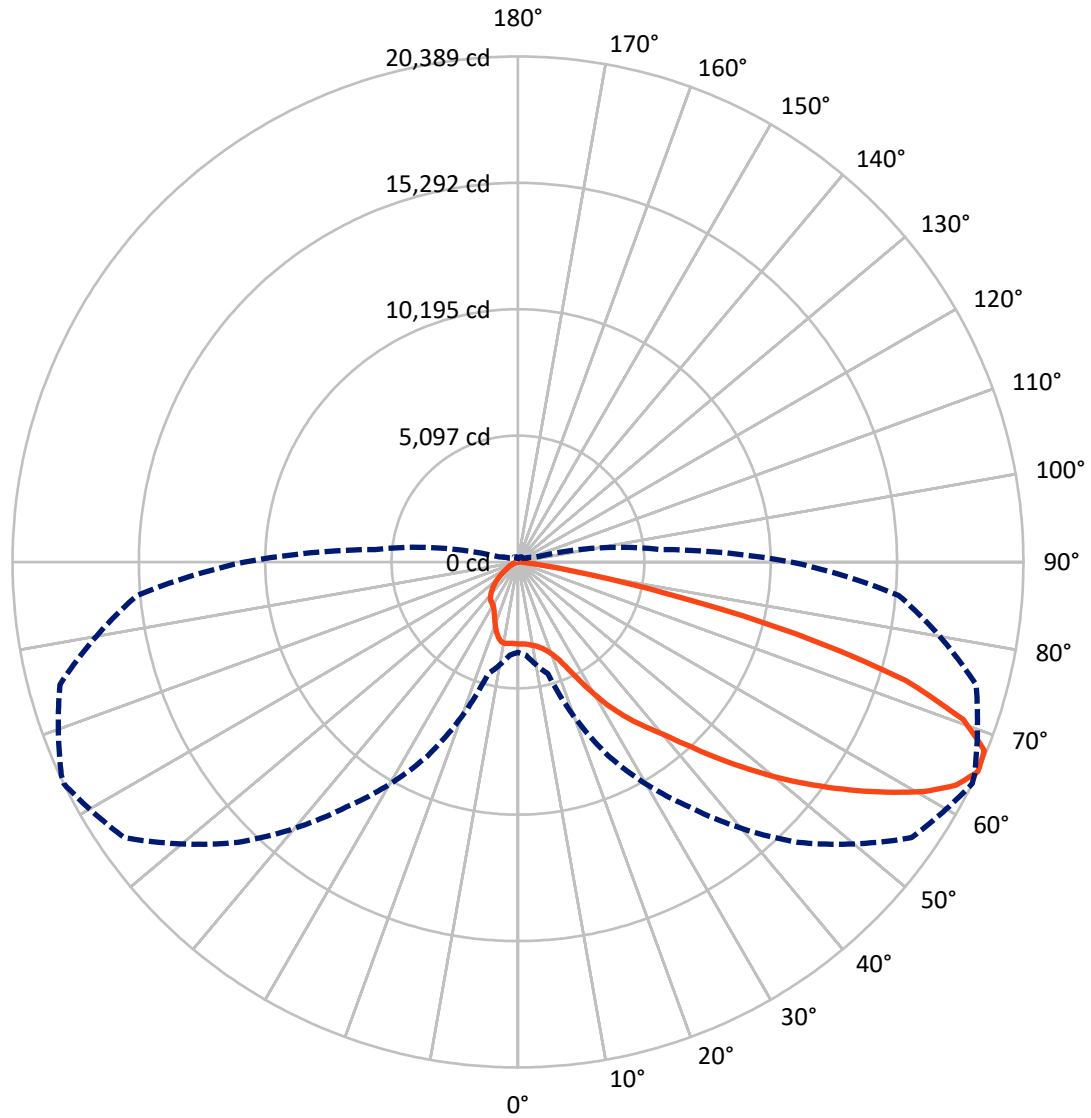
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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
<b>House Side</b>	Lumens	3799.1	0.0	3799.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	24609.8	0.0	24609.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	28409.0	0.0	28409.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.9	1.1
10°-20°	826.8	2.9
20°-30°	1566.8	5.5
30°-40°	3170.5	11.2
40°-50°	5400.9	19.0
50°-60°	7344.8	25.9
60°-70°	6897.2	24.3
70°-80°	2763.3	9.7
80°-90°	133.9	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°	28409.0	100.0
0°-180°	28409.0	100.0

**Coefficient of Utilization**



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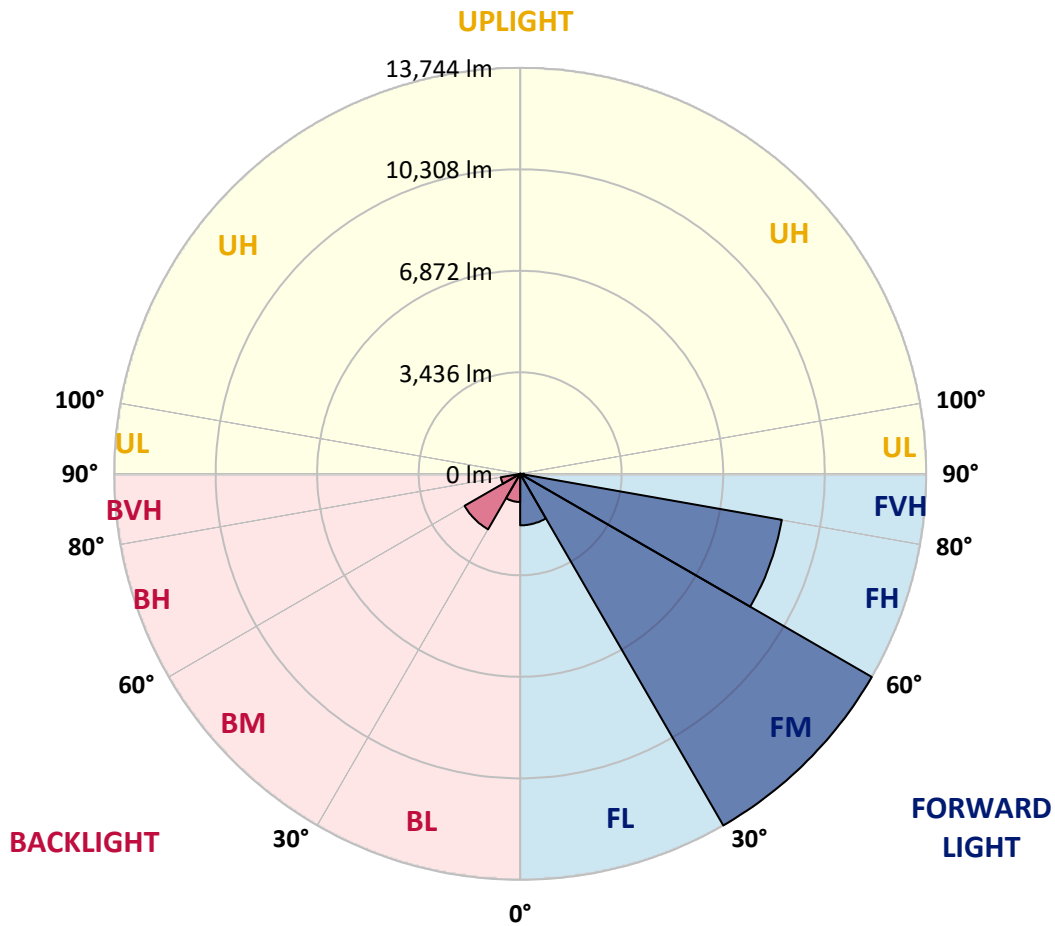
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.6	6.1			
FM (30°-60°)	13744.2	48.4			
FH (60°-80°)	8993.6	31.7			G4/12000
FVH (80°-90°)	127.3	0.4			G2/225
BL (0°-30°)	953.9	3.4	B2/1000		
BM (30°-60°)	2171.9	7.6	B2/2500		
BH (60°-80°)	666.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.5	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3292.8	3315.7	3310.0	3304.3	3302.4	3306.2	3308.1	3306.2	3306.2	3306.2	3308.1
5°	3230.0	3249.0	3249.0	3262.4	3281.4	3304.3	3321.4	3325.2	3329.0	3334.7	3332.8
7.5°	3110.0	3125.2	3136.7	3180.5	3228.1	3289.0	3340.4	3367.1	3370.9	3391.9	3399.5
10°	3028.1	3047.2	3066.2	3111.9	3180.5	3271.9	3359.5	3424.2	3433.8	3483.3	3506.1
12.5°	3024.3	3043.3	3068.1	3117.6	3197.6	3294.7	3401.4	3494.7	3511.8	3584.2	3631.8
15°	3064.3	3087.2	3110.0	3170.9	3256.6	3374.7	3489.0	3605.2	3622.3	3725.2	3776.6
17.5°	3146.2	3176.7	3193.8	3254.7	3346.2	3477.6	3628.0	3761.3	3776.6	3896.6	3961.3
20°	3308.1	3344.3	3350.0	3399.5	3489.0	3629.9	3808.9	3974.6	3993.7	4130.8	4203.2
22.5°	3643.3	3694.7	3649.0	3673.7	3753.7	3894.6	4088.9	4298.4	4325.1	4481.2	4546.0
25°	4233.6	4306.0	4187.9	4146.0	4180.3	4327.0	4570.7	4835.5	4865.9	4991.6	5024.0
27.5°	5393.5	5300.2	5121.1	4945.9	4843.1	4926.9	5201.1	5528.7	5566.8	5688.7	5650.6
30°	6667.6	6585.7	6343.8	5955.3	5711.5	5698.2	5951.5	6317.1	6360.9	6477.1	6360.9
32.5°	7943.6	7865.5	7602.7	7124.6	6701.8	6492.4	6667.6	7073.2	7096.1	7170.3	6998.9
35°	9198.6	9118.6	8855.8	8366.4	7846.4	7370.3	7336.0	7793.1	7800.7	7878.8	7623.6
37.5°	10461.3	10394.6	10114.7	9634.7	9122.4	8465.4	8147.3	8474.9	8484.4	8560.6	8295.9
40°	11362.1	11390.7	11198.3	10826.9	10387.0	9669.0	9057.7	9200.5	9143.4	9271.0	9112.9
42.5°	12135.3	12192.4	12024.8	11838.2	11583.0	10950.7	10185.1	10160.4	10069.0	10137.5	9973.7
45°	12803.8	12851.4	12700.9	12657.1	12651.4	12207.7	11417.3	11268.8	11141.2	11127.8	10931.7
47.5°	13049.5	13140.9	13205.6	13352.3	13637.9	13451.3	12691.4	12461.0	12318.1	12213.4	11903.0
50°	13142.8	13239.9	13460.8	13887.4	14563.5	14643.5	13959.8	13700.8	13525.6	13335.1	12878.1
52.5°	13017.1	13190.4	13487.5	14205.5	15186.3	15599.5	15176.8	14950.1	14750.1	14439.7	13761.7
55°	12276.2	12449.5	13057.1	14201.7	15496.7	16269.9	16327.1	16226.1	16001.4	15511.9	14475.9
57.5°	10714.6	10971.7	11933.4	13717.9	15491.0	16847.0	17454.5	17526.9	17275.5	16574.6	15037.7
60°	8551.1	8899.6	10072.8	12645.7	15013.0	17159.3	18442.9	18804.8	18538.1	17622.1	15492.9
62.5°	5966.7	6370.5	7480.8	10966.0	13919.8	16934.6	19164.7	19833.2	19631.3	18559.1	15668.1
65°	3639.4	3769.0	4664.1	8629.2	12061.0	15993.8	19387.5	20389.3	20322.6	19132.3	15409.1
67.5°	2424.4	2532.9	2790.1	5917.2	9362.4	14114.1	18854.3	20292.2	20311.2	19039.0	14460.7
70°	1460.7	1554.1	1721.6	3441.4	6067.7	11171.6	17203.1	19054.3	19164.7	17791.6	12662.8
72.5°	601.8	664.7	817.0	1559.8	3142.4	7090.4	13698.9	16359.4	16616.5	14959.6	9718.5
75°	340.9	373.3	479.9	782.7	1363.6	3304.3	8297.8	11613.5	11992.5	10310.8	5846.7
77.5°	226.6	241.9	310.4	506.6	767.5	1127.4	3546.1	6050.5	6774.2	5631.5	2531.0
80°	152.4	165.7	213.3	339.0	499.0	483.7	1129.4	2241.6	2757.7	1934.9	617.0
82.5°	102.8	104.7	152.4	222.8	316.1	234.3	333.3	697.0	876.1	559.9	234.3
85°	59.0	57.1	112.4	129.5	140.9	97.1	100.9	209.5	274.2	236.2	133.3
87.5°	7.6	11.4	43.8	34.3	19.0	20.9	20.9	36.2	53.3	57.1	28.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3308.1	3306.2	3300.5	3294.7	3281.4	3273.8	3277.6	3273.8	3271.9	3273.8	3281.4
5°	3332.8	3327.1	3311.9	3292.8	3266.2	3233.8	3212.8	3182.4	3153.8	3136.7	3140.5
7.5°	3399.5	3393.8	3372.8	3319.5	3233.8	3098.6	2974.8	2866.2	2784.3	2736.7	2738.6
10°	3506.1	3496.6	3464.2	3346.2	3121.4	2826.2	2580.6	2376.8	2243.5	2180.6	2174.9
12.5°	3631.8	3620.4	3563.3	3321.4	2908.1	2447.2	2108.3	1881.6	1757.8	1702.6	1696.9
15°	3780.4	3765.1	3652.8	3203.3	2597.7	2028.3	1717.8	1548.3	1468.3	1418.8	1420.7
17.5°	3965.1	3938.5	3719.4	3026.2	2260.6	1708.3	1477.9	1350.3	1279.8	1232.2	1228.4
20°	4205.1	4161.3	3772.8	2814.8	1950.2	1506.4	1316.0	1209.3	1156.0	1114.1	1106.5
22.5°	4540.3	4477.4	3837.5	2586.3	1731.2	1367.4	1196.0	1117.9	1074.1	1026.5	1018.9
25°	4955.4	4881.2	3917.5	2374.9	1580.7	1247.4	1108.4	1043.7	992.2	937.0	931.3
27.5°	5536.3	5403.0	4012.7	2201.6	1451.2	1144.6	1028.4	956.0	897.0	851.3	841.8
30°	6183.8	5964.8	4096.5	2096.8	1333.1	1049.4	923.7	851.3	796.1	763.7	758.0
32.5°	6797.1	6500.0	4151.8	2051.1	1226.5	940.8	809.4	731.3	689.4	679.9	685.6
35°	7376.0	6983.7	4146.0	2007.3	1131.3	832.3	697.0	617.0	584.7	590.4	590.4
37.5°	8042.6	7499.8	4106.0	1938.8	1053.2	733.2	599.9	529.4	500.9	502.8	510.4
40°	8817.7	8095.9	4081.3	1809.2	967.5	641.8	519.9	462.8	441.8	434.2	432.3
42.5°	9644.3	8673.0	4085.1	1662.6	860.8	559.9	464.7	417.1	398.0	392.3	390.4
45°	10474.6	9223.4	4090.8	1510.2	748.5	497.1	424.7	384.7	373.3	365.7	365.7
47.5°	11255.4	9691.9	3984.2	1346.5	638.0	449.5	392.3	365.7	356.1	346.6	346.6
50°	11982.9	10004.2	3727.1	1156.0	550.4	411.4	367.6	348.5	339.0	329.5	329.5
52.5°	12548.6	10053.7	3302.4	959.9	489.4	382.8	352.3	335.2	323.8	314.2	312.3
55°	12800.0	9743.3	2698.6	777.0	441.8	358.0	337.1	320.0	306.6	297.1	295.2
57.5°	12735.2	9090.1	2104.4	624.7	396.1	333.3	318.0	306.6	291.4	276.1	274.2
60°	12417.2	8215.9	1586.4	519.9	354.2	306.6	297.1	287.6	266.6	243.8	240.0
62.5°	11866.8	7117.0	1131.3	430.4	308.5	276.1	272.3	264.7	234.3	192.4	188.5
65°	11025.0	5782.0	761.8	358.0	264.7	241.9	243.8	230.4	190.4	142.8	139.0
67.5°	9794.7	4227.9	487.5	293.3	220.9	201.9	203.8	196.2	161.9	121.9	116.2
70°	8227.3	2799.6	318.0	222.8	177.1	156.2	167.6	169.5	137.1	99.0	95.2
72.5°	6031.5	1653.1	222.8	165.7	129.5	108.6	137.1	140.9	110.5	74.3	70.5
75°	3437.6	784.6	167.6	120.0	80.0	76.2	106.7	106.7	76.2	49.5	45.7
77.5°	1443.6	327.6	118.1	78.1	45.7	43.8	72.4	66.7	38.1	22.9	22.9
80°	417.1	146.6	62.8	38.1	19.0	17.1	28.6	20.9	9.5	3.8	3.8
82.5°	163.8	64.8	24.8	15.2	7.6	7.6	3.8	0.0	0.0	0.0	0.0
85°	97.1	26.7	11.4	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.8	5.7	3.8	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)