

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: P970257

Luminaire Tested: **NAV-SB6B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970257
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-SB6B-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA 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: 24652.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

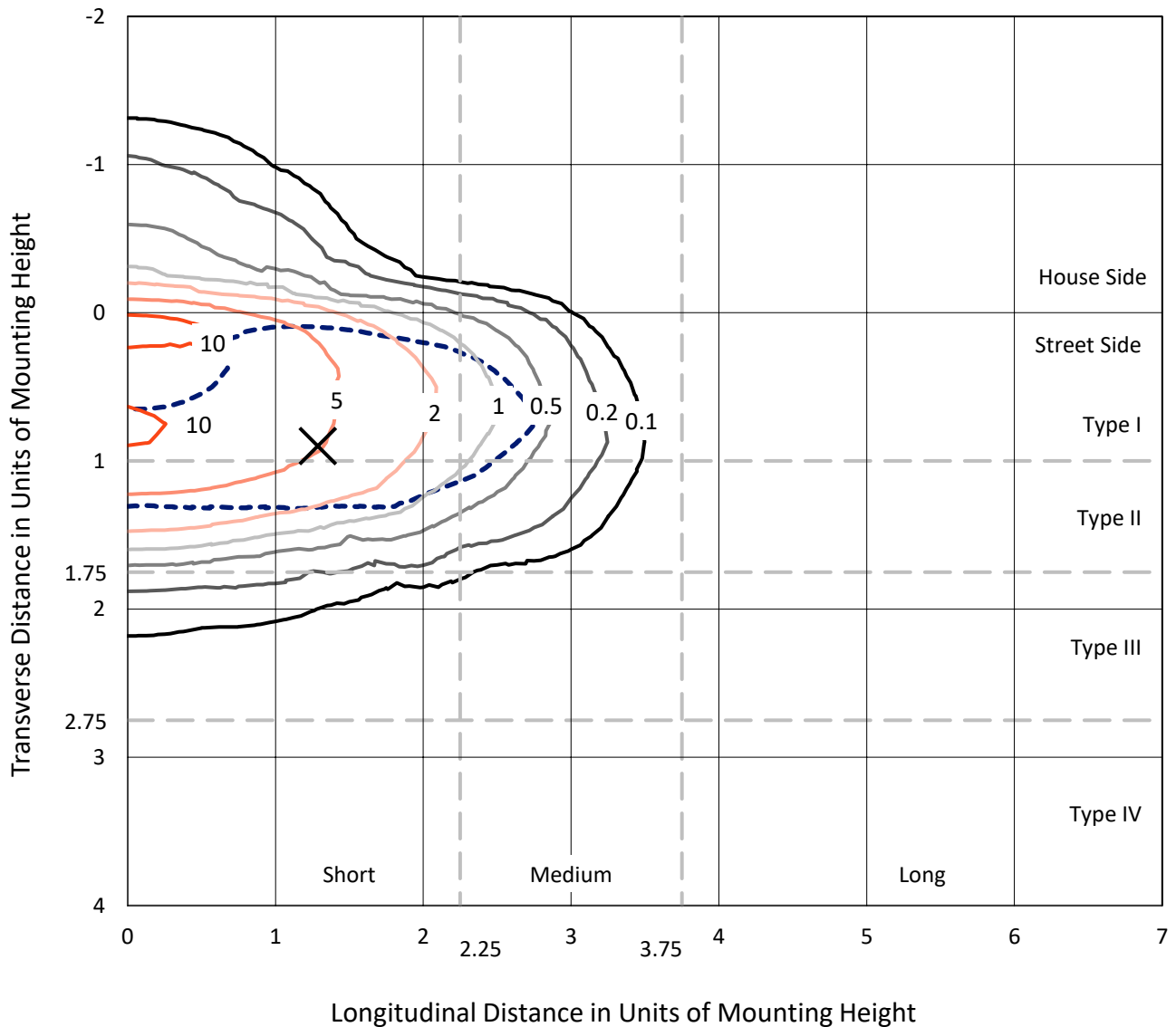
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

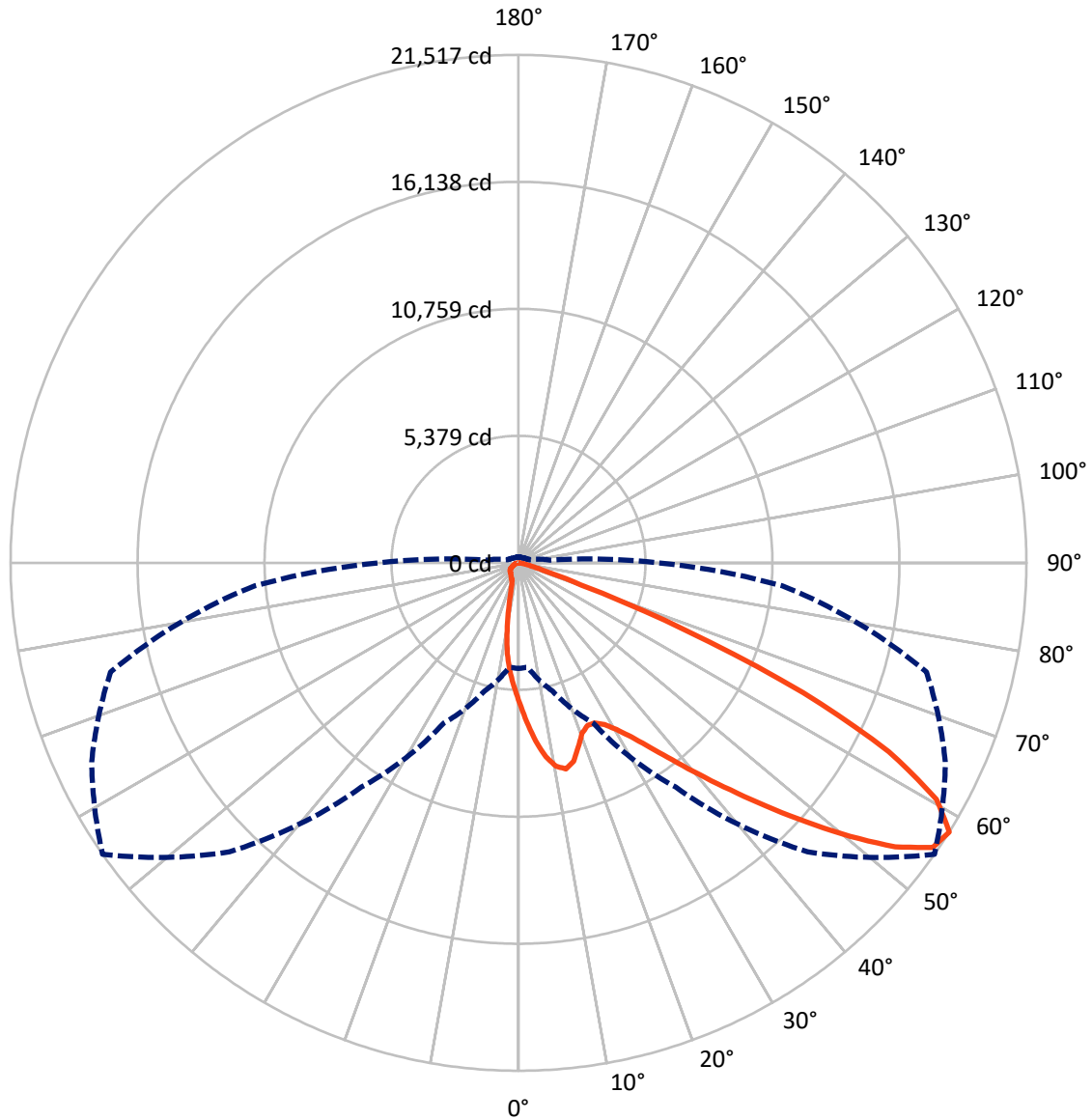
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.2	0.0	1925.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	22727.0	0.0	22727.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	24652.3	0.0	24652.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.7	2.2
10°-20°	1335.1	5.4
20°-30°	2136.2	8.7
30°-40°	3615.7	14.7
40°-50°	5936.2	24.1
50°-60°	6524.3	26.5
60°-70°	3742.3	15.2
70°-80°	764.7	3.1
80°-90°	45.1	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°	24652.3	100.0
0°-180°	24652.3	100.0

Coefficient of Utilization

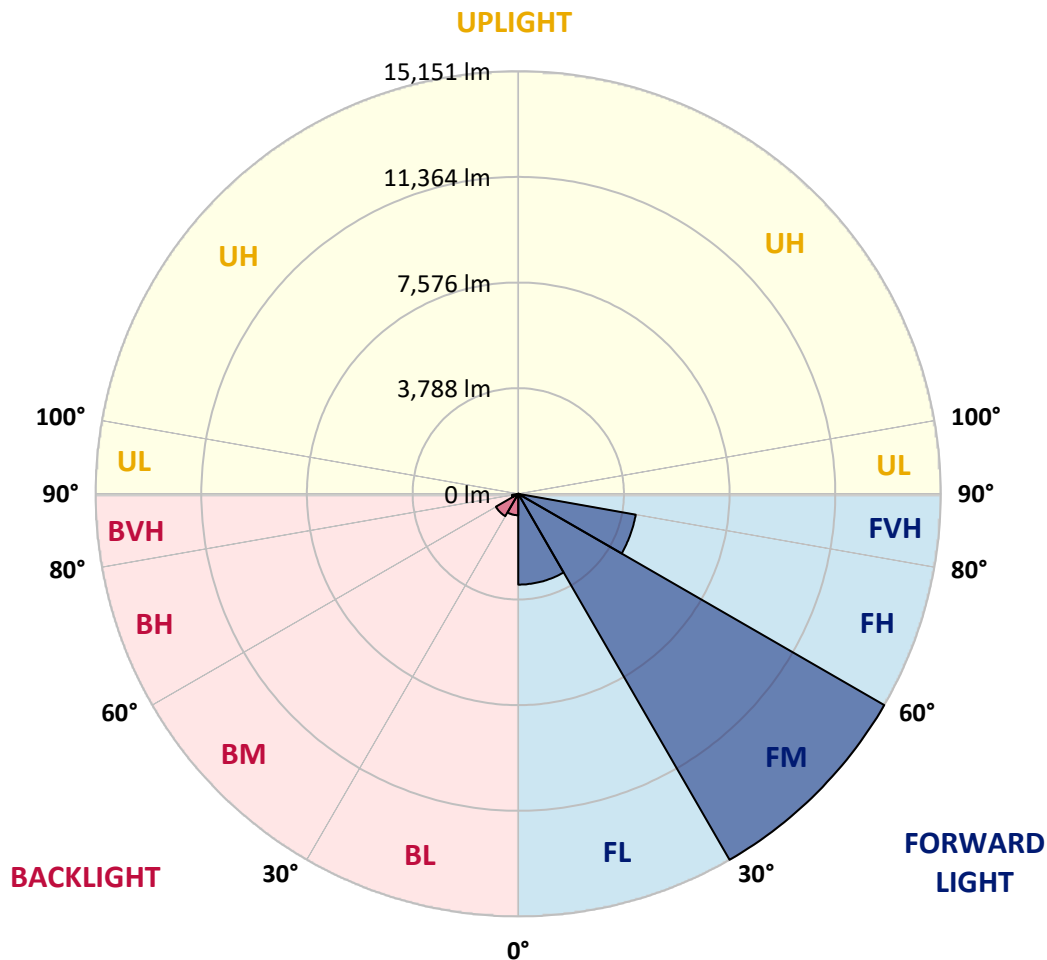


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3255.5	13.2			
FM (30°-60°)	15151.5	61.5			
FH (60°-80°)	4278.0	17.4			G2/5000
FVH (80°-90°)	42.1	0.2			G1/100
BL (0°-30°)	768.6	3.1	B2/1000		
BM (30°-60°)	924.6	3.8	B1/1000		
BH (60°-80°)	229.0	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6
2.5°	7371.0	7278.3	7264.6	7246.3	7070.0	6937.8	6746.2	6536.4	6300.9	6060.7	5954.2
5°	8515.7	8442.7	8429.0	8343.9	8143.2	7918.2	7577.7	7147.5	6708.2	6191.4	5969.5
7.5°	8737.6	8723.9	8786.2	8783.2	8755.9	8578.0	8290.7	7778.4	7118.6	6352.5	6009.0
10°	7748.0	7782.9	7968.5	8131.1	8570.3	8825.8	8763.4	8340.8	7541.2	6536.4	6053.0
12.5°	6846.6	6805.5	6937.8	7121.7	7632.5	8392.5	8959.5	8810.6	8024.6	6744.7	6118.4
15°	6281.1	6264.4	6338.9	6424.0	6813.2	7579.3	8731.5	9192.1	8489.8	6991.0	6217.2
17.5°	6100.2	6086.6	6109.3	6130.6	6383.0	6975.7	8188.8	9426.2	8935.2	7272.2	6326.7
20°	6247.7	6229.4	6226.4	6209.7	6314.5	6718.9	7697.9	9442.9	9335.0	7527.6	6420.9
22.5°	6677.9	6656.6	6582.0	6515.2	6524.3	6753.8	7478.9	9275.7	9636.0	7766.2	6480.3
25°	7457.7	7422.7	7267.7	7042.7	6899.8	6997.1	7512.4	9055.3	9923.2	7953.2	6451.3
27.5°	8433.6	8388.0	8188.8	7854.4	7527.6	7409.0	7754.1	8903.3	10162.0	8096.1	6389.0
30°	9389.7	9330.5	9134.4	8874.4	8397.1	8023.2	8190.4	8970.2	10446.2	8245.1	6306.9
32.5°	10421.9	10365.6	10105.7	9783.4	9388.2	8885.0	8787.7	9297.0	10794.3	8453.4	6249.2
35°	11727.6	11639.5	11270.1	10830.8	10411.2	9902.0	9596.5	9860.9	11258.0	8771.0	6281.1
37.5°	13214.3	13095.7	12697.5	12091.0	11543.8	10973.6	10581.5	10636.2	11937.5	9196.7	6379.9
40°	14615.9	14508.0	14140.1	13568.5	12881.4	12189.8	11771.7	11650.2	12875.3	9715.1	6553.2
42.5°	15456.5	15359.2	15204.1	14962.4	14383.3	13677.9	13150.4	12887.5	13985.0	10335.3	6764.5
45°	15503.6	15418.5	15626.7	15908.0	15793.9	15324.3	14681.2	14199.3	15099.3	10917.5	6983.4
47.5°	14749.6	14691.8	15324.3	16306.2	16795.6	16993.3	16400.5	15401.8	16018.9	11335.5	7073.1
50°	12694.4	12673.2	13974.3	15777.2	17177.3	18455.6	18213.9	16520.5	16731.9	11551.3	6987.9
52.5°	11007.2	10929.6	11688.2	14083.8	16622.4	19224.8	19986.4	17618.1	17230.5	11592.3	6788.8
55°	8348.4	8280.1	9231.7	11250.3	14833.2	18951.2	21283.1	18750.5	17587.7	11487.5	6431.6
57.5°	4478.2	4435.7	5638.1	7488.0	11595.4	17309.5	21517.2	19948.4	17888.6	11209.3	5931.5
60°	1743.5	1735.9	2185.9	3633.1	7047.2	14082.3	20336.0	20667.4	18077.1	10867.3	5513.5
62.5°	1054.9	1077.8	1150.8	1631.1	3113.2	8748.3	17613.5	19849.6	18203.3	10554.1	5168.4
65°	872.6	874.0	883.1	1120.3	1491.3	3660.4	13259.9	17159.0	17891.7	9996.2	4678.9
67.5°	747.9	761.6	796.5	889.3	1052.0	1605.3	7634.0	13291.9	15996.1	8698.0	3915.8
70°	589.8	608.0	652.1	731.1	811.7	1004.8	2821.3	8844.0	12220.2	6556.2	2961.2
72.5°	497.1	495.6	518.3	594.4	644.5	706.8	1085.4	4955.6	7101.9	3129.9	1465.3
75°	384.6	399.7	428.7	497.1	527.5	512.3	588.2	1810.5	2544.7	948.5	498.6
77.5°	300.9	313.1	339.0	405.9	436.2	363.3	339.0	647.6	817.8	340.5	225.0
80°	135.3	146.0	231.0	299.5	355.7	250.8	183.9	331.4	363.3	155.1	114.0
82.5°	24.3	41.0	135.3	158.1	182.4	162.7	95.7	171.8	177.8	62.3	39.6
85°	1.5	3.1	47.2	57.8	73.0	53.2	28.9	68.4	59.2	21.3	15.2
87.5°	0.0	0.0	0.0	1.5	1.5	7.6	9.1	12.2	9.1	7.6	6.0
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°	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6	5940.6
2.5°	5844.9	5629.0	5419.2	5247.4	5147.1	4976.9	4864.3	4846.1	4798.9	4840.0
5°	5732.3	5346.2	4955.6	4605.9	4318.6	3947.7	3671.0	3554.0	3452.2	3487.2
7.5°	5679.1	5069.5	4461.5	3864.1	3250.0	2657.1	2216.4	2032.4	1892.6	1912.3
10°	5607.7	4782.2	3829.2	2917.0	2094.7	1509.5	1205.4	1093.0	1030.6	1032.2
12.5°	5552.9	4438.8	3095.0	1977.6	1275.4	963.7	869.5	842.1	823.9	825.4
15°	5525.6	4034.4	2369.9	1317.9	912.0	816.3	793.5	781.4	769.2	767.6
17.5°	5480.0	3584.4	1734.4	962.3	798.1	764.6	744.9	731.1	716.0	712.9
20°	5411.6	3073.7	1267.8	813.2	747.9	722.0	694.6	676.5	658.3	655.2
22.5°	5285.4	2534.0	974.4	752.5	711.5	682.5	649.1	627.8	609.6	606.5
25°	5051.3	2027.9	820.8	714.4	679.5	644.5	608.0	579.1	562.4	559.4
27.5°	4754.9	1593.1	744.9	679.5	638.5	606.5	565.5	538.1	523.0	519.9
30°	4405.2	1226.7	700.8	640.0	589.8	562.4	525.9	503.2	494.0	494.0
32.5°	4028.2	980.5	682.5	600.4	547.2	516.8	488.0	478.9	475.8	474.3
35°	3674.1	851.3	673.4	568.6	509.2	480.3	468.2	469.8	475.8	475.8
37.5°	3359.4	810.3	668.8	545.7	475.8	450.0	457.6	471.2	465.1	465.1
40°	3075.2	814.8	665.8	529.0	448.4	433.3	448.4	437.8	422.6	421.1
42.5°	2857.8	852.8	659.7	515.3	431.7	421.1	415.0	398.3	396.8	399.7
45°	2699.7	886.2	658.3	509.2	413.5	393.7	386.1	369.4	399.7	407.4
47.5°	2512.8	886.2	658.3	488.0	383.0	375.5	363.3	345.0	375.5	383.0
50°	2271.1	829.9	632.3	463.6	358.7	354.1	332.9	310.1	304.0	308.6
52.5°	1965.5	728.2	567.0	430.2	334.5	325.3	299.5	282.7	278.2	278.2
55°	1617.3	609.6	478.9	381.5	308.6	291.8	273.6	266.0	261.5	258.4
57.5°	1314.9	500.1	384.6	339.0	284.2	263.0	256.9	247.7	240.2	235.6
60°	1079.3	393.7	317.8	300.9	259.9	240.2	238.6	226.5	206.7	203.7
62.5°	833.0	288.8	267.5	261.5	235.6	218.9	215.9	191.6	161.1	155.1
65°	588.2	225.0	215.9	229.5	209.8	194.5	187.0	150.5	118.6	114.0
67.5°	413.5	188.5	170.3	200.7	182.4	162.7	158.1	127.7	98.8	95.7
70°	294.9	153.5	139.8	171.8	146.0	142.9	133.8	106.4	80.6	77.5
72.5°	208.3	117.1	107.9	148.9	100.3	123.1	109.5	82.1	60.8	57.8
75°	153.5	83.6	76.1	86.6	73.0	92.8	77.5	54.7	38.0	36.5
77.5°	112.4	53.2	45.6	42.5	42.5	57.8	42.5	22.8	16.7	15.2
80°	79.0	24.3	21.3	18.2	16.7	13.6	6.0	3.1	1.5	1.5
82.5°	47.2	10.7	10.7	7.6	4.5	0.0	0.0	0.0	0.0	0.0
85°	10.7	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	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)