

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: P883918

Luminaire Tested: **NAV-SB4C-727-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883918
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-SB4C-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 21572 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

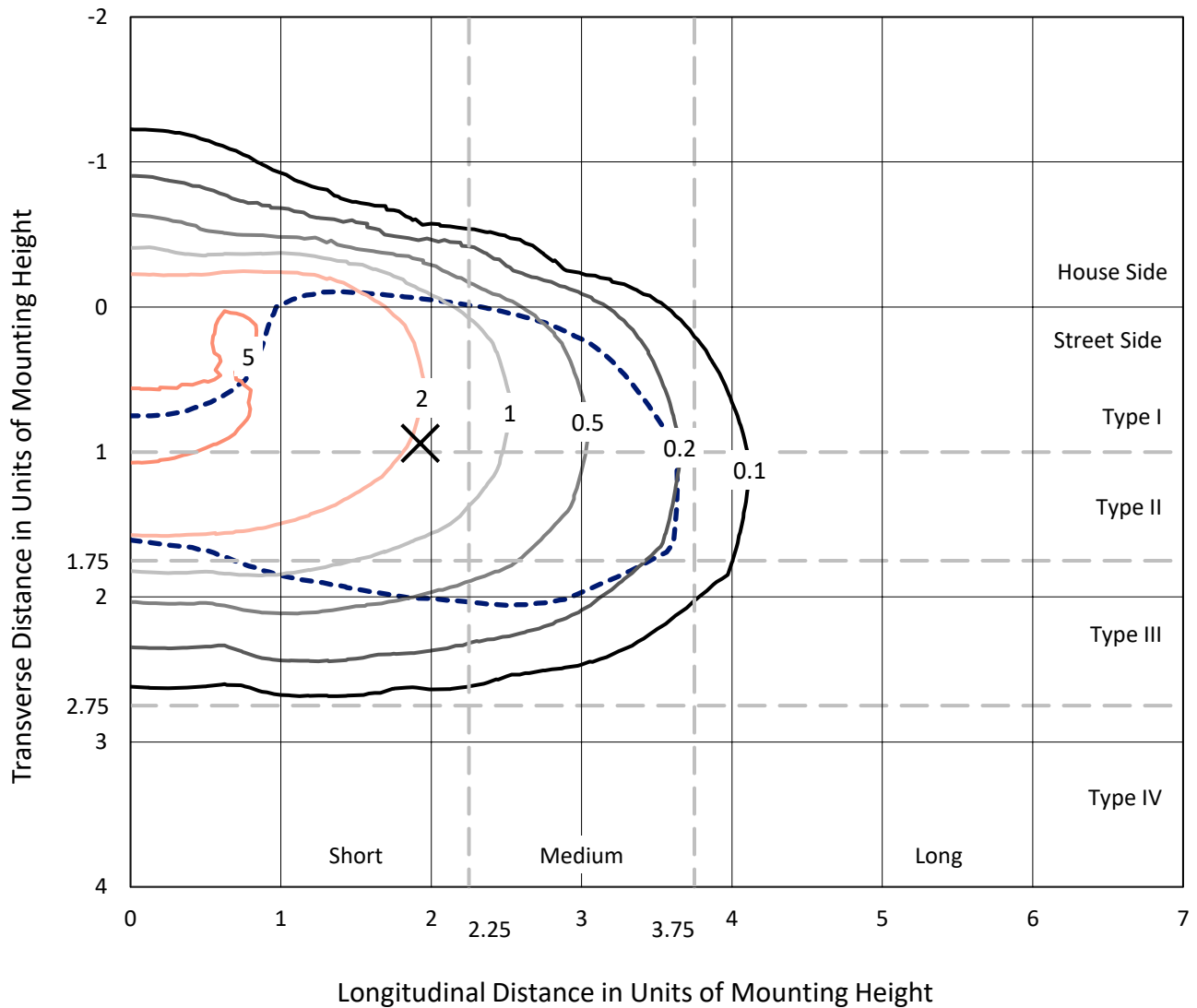
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

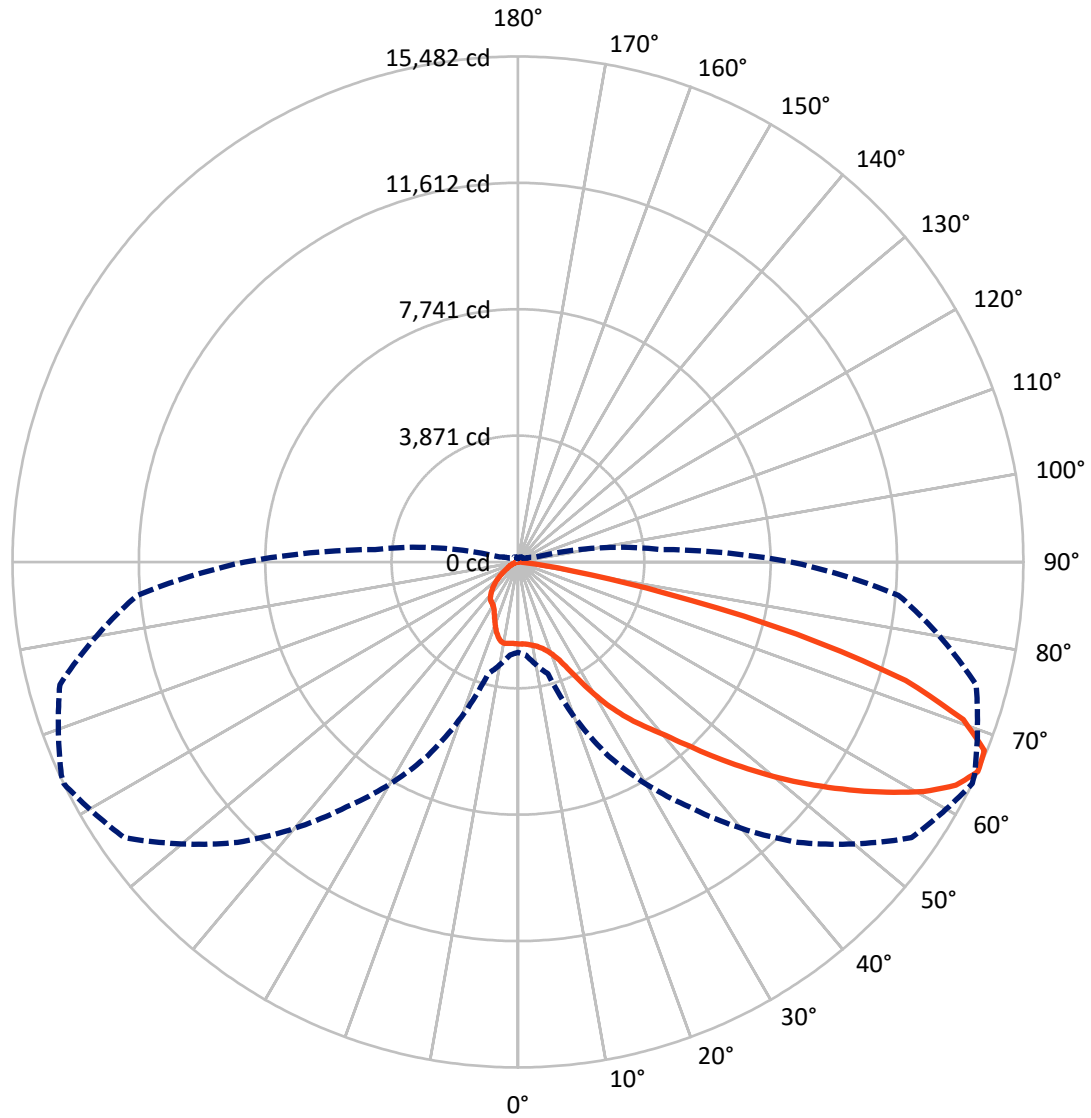
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
House Side	Lumens	2884.8	0.0	2884.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18687.2	0.0	18687.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	21572.0	0.0	21572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	1.1
10°-20°	627.9	2.9
20°-30°	1189.7	5.5
30°-40°	2407.4	11.2
40°-50°	4101.1	19.0
50°-60°	5577.2	25.9
60°-70°	5237.3	24.3
70°-80°	2098.3	9.7
80°-90°	101.7	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°	21572.0	100.0
0°-180°	21572.0	100.0

Coefficient of Utilization



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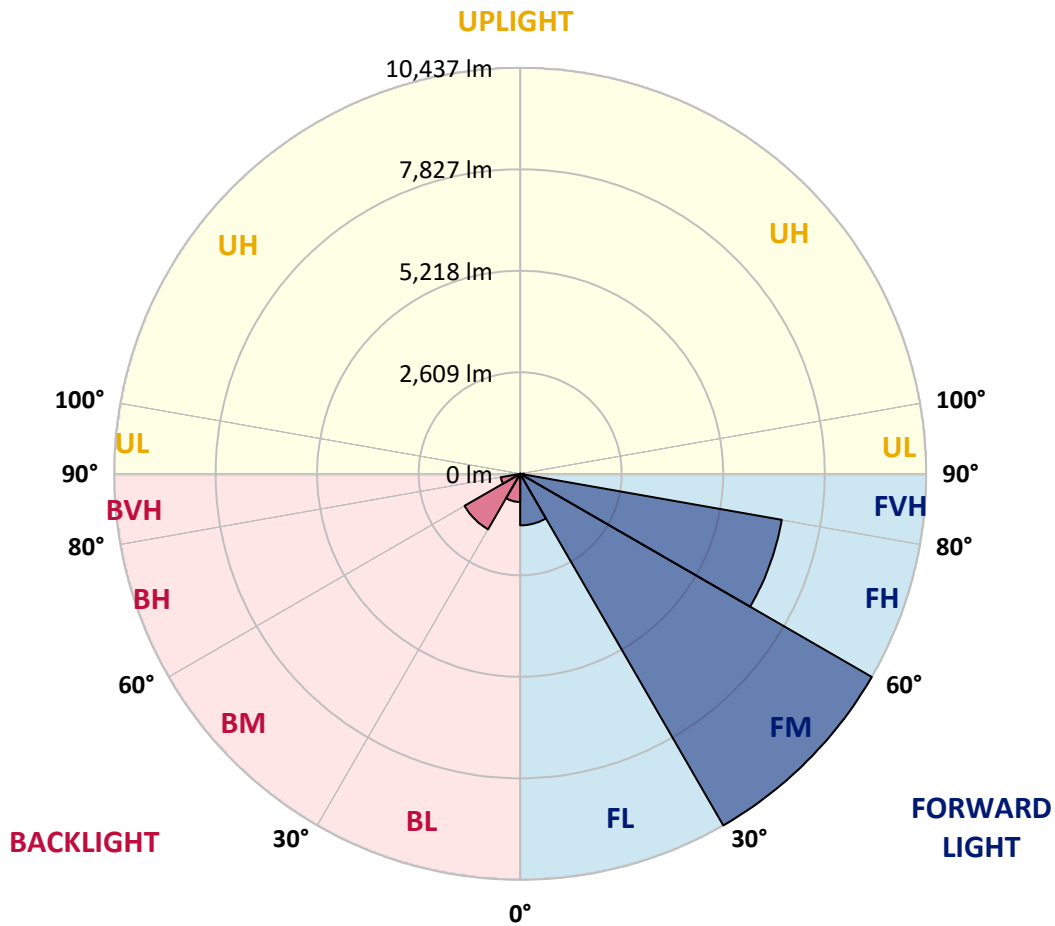
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.8	6.1			
FM (30°-60°)	10436.5	48.4			
FH (60°-80°)	6829.2	31.7			G3/7500
FVH (80°-90°)	96.7	0.4			G1/100
BL (0°-30°)	724.3	3.4	B2/1000		
BM (30°-60°)	1649.2	7.6	B2/2500		
BH (60°-80°)	506.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.0	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0
2.5°	2500.4	2517.7	2513.4	2509.0	2507.6	2510.5	2511.9	2510.5	2510.5	2510.5	2511.9
5°	2452.6	2467.1	2467.1	2477.2	2491.7	2509.0	2522.1	2525.0	2527.8	2532.2	2530.7
7.5°	2361.5	2373.1	2381.8	2415.0	2451.2	2497.5	2536.5	2556.8	2559.7	2575.6	2581.4
10°	2299.4	2313.8	2328.3	2363.0	2415.0	2484.5	2551.0	2600.2	2607.4	2645.0	2662.3
12.5°	2296.5	2310.9	2329.7	2367.3	2428.1	2501.8	2582.8	2653.7	2666.7	2721.6	2757.8
15°	2326.8	2344.2	2361.5	2407.8	2472.9	2562.6	2649.3	2737.5	2750.6	2828.6	2867.7
17.5°	2389.0	2412.2	2425.2	2471.4	2540.9	2640.6	2754.9	2856.1	2867.7	2958.8	3008.0
20°	2511.9	2539.4	2543.8	2581.4	2649.3	2756.3	2892.3	3018.1	3032.5	3136.7	3191.6
22.5°	2766.5	2805.5	2770.8	2789.6	2850.3	2957.4	3104.9	3263.9	3284.2	3402.8	3451.9
25°	3214.8	3269.7	3180.1	3148.2	3174.3	3285.6	3470.7	3671.7	3694.9	3790.3	3814.9
27.5°	4095.5	4024.6	3888.7	3755.6	3677.5	3741.2	3949.4	4198.1	4227.1	4319.6	4290.7
30°	5062.9	5000.7	4817.1	4522.1	4337.0	4326.8	4519.2	4796.8	4830.1	4918.3	4830.1
32.5°	6031.8	5972.5	5773.0	5410.0	5089.0	4929.9	5062.9	5371.0	5388.3	5444.7	5314.6
35°	6984.8	6924.1	6724.5	6352.9	5958.1	5596.5	5570.5	5917.6	5923.4	5982.7	5788.9
37.5°	7943.6	7893.0	7680.4	7316.0	6927.0	6428.1	6186.6	6435.3	6442.5	6500.4	6299.4
40°	8627.7	8649.3	8503.3	8221.3	7887.2	7342.0	6877.8	6986.3	6942.9	7039.8	6919.8
42.5°	9214.8	9258.2	9130.9	8989.2	8795.4	8315.3	7733.9	7715.1	7645.7	7697.8	7573.4
45°	9722.4	9758.5	9644.3	9611.0	9606.7	9269.7	8669.6	8556.8	8459.9	8449.8	8300.8
47.5°	9908.9	9978.3	10027.5	10138.9	10355.8	10214.1	9637.1	9462.1	9353.6	9274.1	9038.4
50°	9979.8	10053.5	10221.3	10545.2	11058.6	11119.3	10600.2	10403.5	10270.5	10125.9	9778.8
52.5°	9884.3	10015.9	10241.5	10786.7	11531.5	11845.3	11524.3	11352.2	11200.3	10964.6	10449.8
55°	9321.8	9453.4	9914.7	10783.8	11767.2	12354.3	12397.7	12321.1	12150.4	11778.8	10992.1
57.5°	8136.0	8331.2	9061.5	10416.5	11762.9	12792.5	13253.8	13308.8	13117.9	12585.7	11418.7
60°	6493.2	6757.8	7648.6	9602.3	11399.9	13029.7	14004.4	14279.2	14076.7	13381.1	11764.3
62.5°	4530.7	4837.3	5680.4	8326.9	10569.8	12859.0	14552.5	15060.1	14906.8	14092.6	11897.4
65°	2763.6	2861.9	3541.6	6552.4	9158.4	12144.7	14721.7	15482.3	15431.7	14527.9	11700.7
67.5°	1840.9	1923.4	2118.6	4493.1	7109.2	10717.3	14316.8	15408.6	15423.1	14457.0	10980.5
70°	1109.2	1180.0	1307.3	2613.2	4607.4	8483.0	13063.0	14468.6	14552.5	13509.8	9615.4
72.5°	457.0	504.7	620.4	1184.4	2386.1	5384.0	10402.1	12422.3	12617.5	11359.4	7379.6
75°	258.9	283.4	364.4	594.4	1035.4	2509.0	6300.8	8818.5	9106.3	7829.4	4439.6
77.5°	172.1	183.7	235.7	384.7	582.8	856.1	2692.7	4594.4	5143.9	4276.2	1921.9
80°	115.7	125.8	162.0	257.4	378.9	367.3	857.6	1702.1	2094.0	1469.3	468.5
82.5°	78.1	79.5	115.7	169.2	240.1	177.9	253.1	529.3	665.2	425.2	177.9
85°	44.8	43.4	85.3	98.3	107.0	73.8	76.6	159.1	208.2	179.3	101.2
87.5°	5.8	8.7	33.3	26.0	14.5	15.9	15.9	27.5	40.5	43.4	21.7
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°	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0	2509.0
2.5°	2511.9	2510.5	2506.2	2501.8	2491.7	2485.9	2488.8	2485.9	2484.5	2485.9	2491.7
5°	2530.7	2526.4	2514.8	2500.4	2480.1	2455.5	2439.6	2416.5	2394.8	2381.8	2384.7
7.5°	2581.4	2577.0	2561.1	2520.6	2455.5	2352.9	2258.9	2176.4	2114.3	2078.1	2079.5
10°	2662.3	2655.1	2630.5	2540.9	2370.2	2146.1	1959.5	1804.8	1703.5	1655.8	1651.5
12.5°	2757.8	2749.1	2705.7	2522.1	2208.3	1858.3	1600.9	1428.8	1334.8	1292.8	1288.5
15°	2870.6	2859.0	2773.7	2432.4	1972.5	1540.1	1304.4	1175.7	1115.0	1077.4	1078.8
17.5°	3010.9	2990.6	2824.3	2297.9	1716.6	1297.2	1122.2	1025.3	971.8	935.7	932.8
20°	3193.1	3159.8	2864.8	2137.4	1480.8	1143.9	999.3	918.3	877.8	846.0	840.2
22.5°	3447.6	3399.9	2914.0	1963.9	1314.5	1038.3	908.2	848.9	815.6	779.5	773.7
25°	3762.8	3706.4	2974.7	1803.3	1200.3	947.2	841.7	792.5	753.4	711.5	707.2
27.5°	4203.9	4102.7	3047.0	1671.7	1102.0	869.1	780.9	726.0	681.1	646.4	639.2
30°	4695.6	4529.3	3110.6	1592.2	1012.3	796.8	701.4	646.4	604.5	579.9	575.6
32.5°	5161.3	4935.7	3152.6	1557.5	931.3	714.4	614.6	555.3	523.5	516.3	520.6
35°	5600.9	5303.0	3148.2	1524.2	859.0	632.0	529.3	468.5	444.0	448.3	448.3
37.5°	6107.0	5694.9	3117.9	1472.2	799.7	556.8	455.5	402.0	380.3	381.8	387.6
40°	6695.6	6147.5	3099.1	1373.8	734.6	487.3	394.8	351.4	335.5	329.7	328.3
42.5°	7323.2	6585.7	3102.0	1262.5	653.7	425.2	352.9	316.7	302.2	297.9	296.5
45°	7953.8	7003.6	3106.3	1146.8	568.3	377.4	322.5	292.1	283.4	277.7	277.7
47.5°	8546.7	7359.4	3025.3	1022.4	484.5	341.3	297.9	277.7	270.4	263.2	263.2
50°	9099.1	7596.6	2830.1	877.8	417.9	312.4	279.1	264.6	257.4	250.2	250.2
52.5°	9528.6	7634.2	2507.6	728.9	371.7	290.7	267.5	254.5	245.8	238.6	237.2
55°	9719.5	7398.4	2049.2	590.0	335.5	271.9	256.0	243.0	232.8	225.6	224.2
57.5°	9670.3	6902.4	1598.0	474.3	300.8	253.1	241.5	232.8	221.3	209.7	208.2
60°	9428.8	6238.6	1204.6	394.8	269.0	232.8	225.6	218.4	202.5	185.1	182.2
62.5°	9010.9	5404.2	859.0	326.8	234.3	209.7	206.8	201.0	177.9	146.1	143.2
65°	8371.7	4390.5	578.5	271.9	201.0	183.7	185.1	175.0	144.6	108.5	105.6
67.5°	7437.5	3210.4	370.2	222.7	167.8	153.3	154.7	149.0	122.9	92.6	88.2
70°	6247.3	2125.8	241.5	169.2	134.5	118.6	127.3	128.7	104.1	75.2	72.3
72.5°	4579.9	1255.2	169.2	125.8	98.3	82.4	104.1	107.0	83.9	56.4	53.5
75°	2610.3	595.8	127.3	91.1	60.7	57.8	81.0	81.0	57.8	37.6	34.7
77.5°	1096.2	248.7	89.7	59.3	34.7	33.3	55.0	50.6	28.9	17.4	17.4
80°	316.7	111.4	47.7	28.9	14.5	13.0	21.7	15.9	7.2	2.9	2.9
82.5°	124.4	49.2	18.8	11.6	5.8	5.8	2.9	0.0	0.0	0.0	0.0
85°	73.8	20.2	8.7	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.8	4.3	2.9	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)