

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: P885188

Luminaire Tested: **NAV-SB6B-835-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885188
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-SB6B-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA 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: 22617 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

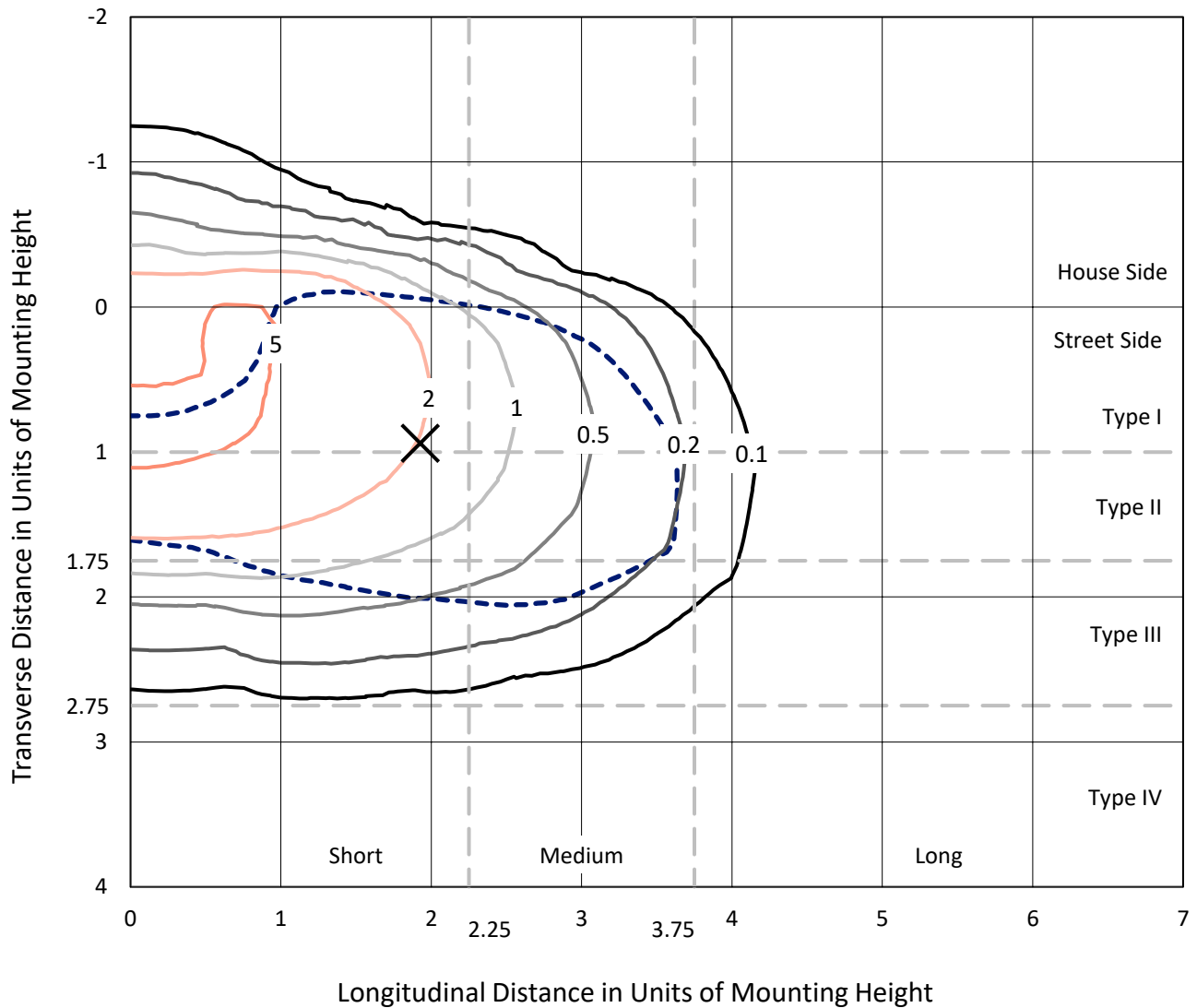
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

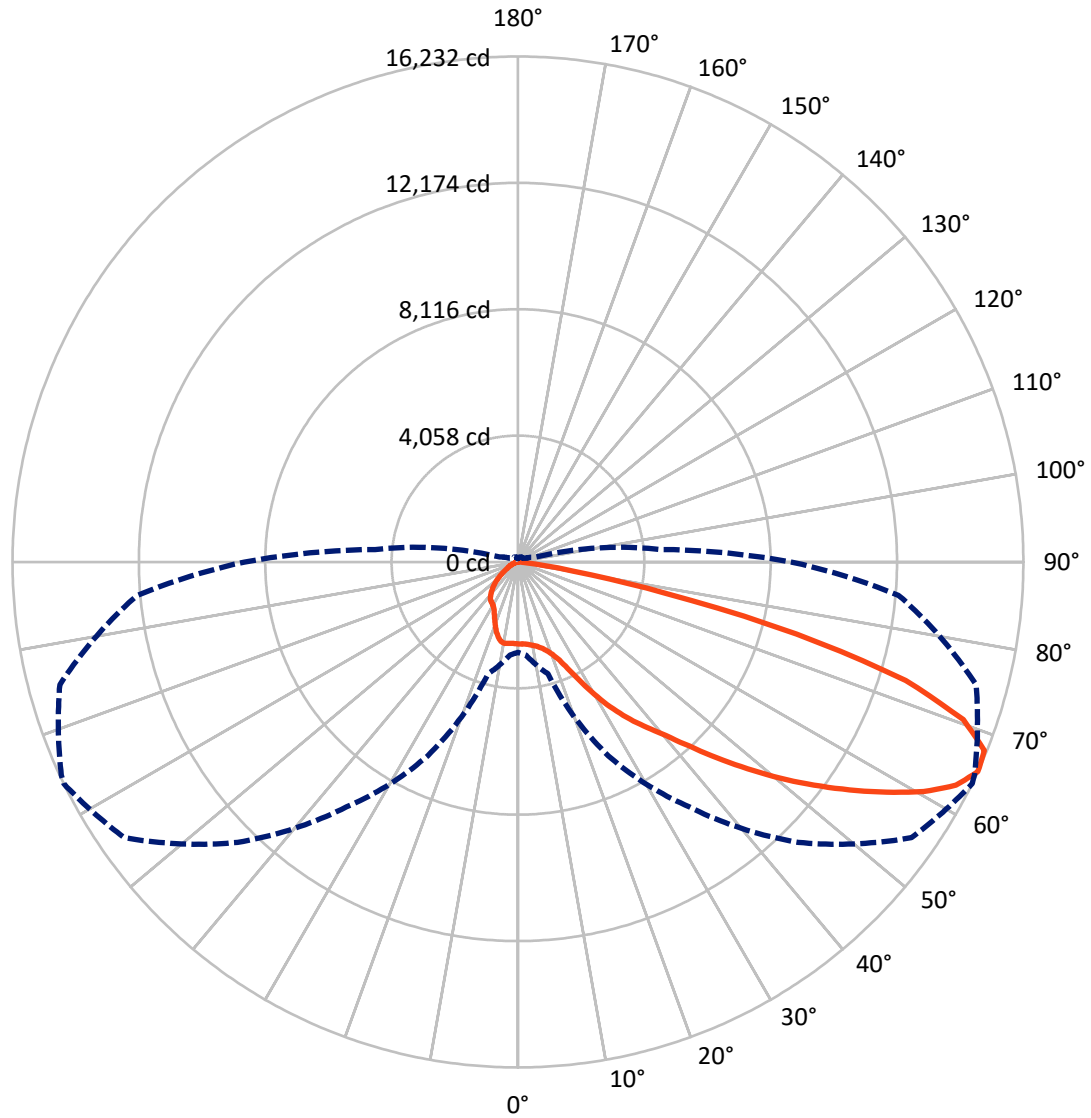
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3024.6	0.0	3024.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19592.4	0.0	19592.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	22617.0	0.0	22617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.1
10°-20°	658.3	2.9
20°-30°	1247.4	5.5
30°-40°	2524.1	11.2
40°-50°	4299.8	19.0
50°-60°	5847.4	25.9
60°-70°	5491.0	24.3
70°-80°	2199.9	9.7
80°-90°	106.6	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°	22617.0	100.0
0°-180°	22617.0	100.0

Coefficient of Utilization



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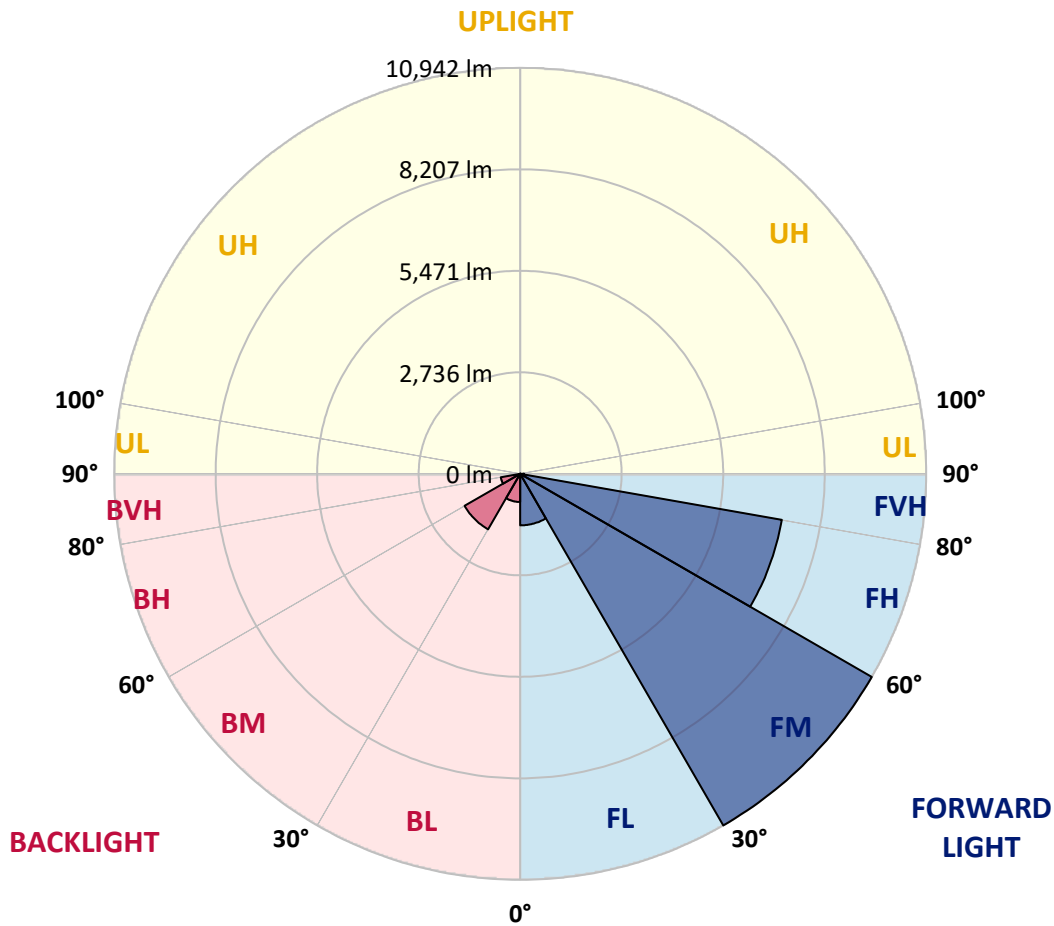
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.9	6.1			
FM (30°-60°)	10942.1	48.4			
FH (60°-80°)	7160.0	31.7			G3/7500
FVH (80°-90°)	101.4	0.4			G2/225
BL (0°-30°)	759.4	3.4	B2/1000		
BM (30°-60°)	1729.1	7.6	B2/2500		
BH (60°-80°)	530.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2621.5	2639.7	2635.1	2630.6	2629.1	2632.1	2633.6	2632.1	2632.1	2632.1	2633.6
5°	2571.5	2586.6	2586.6	2597.2	2612.4	2630.6	2644.2	2647.3	2650.3	2654.9	2653.3
7.5°	2475.9	2488.1	2497.2	2532.0	2569.9	2618.5	2659.4	2680.6	2683.7	2700.3	2706.4
10°	2410.7	2425.9	2441.1	2477.5	2532.0	2604.8	2674.6	2726.1	2733.7	2773.1	2791.3
12.5°	2407.7	2422.9	2442.6	2482.0	2545.7	2623.0	2707.9	2782.2	2795.9	2853.5	2891.4
15°	2439.6	2457.7	2475.9	2524.5	2592.7	2686.7	2777.7	2870.2	2883.8	2965.7	3006.6
17.5°	2504.7	2529.0	2542.7	2591.2	2663.9	2768.6	2888.3	2994.5	3006.6	3102.1	3153.7
20°	2633.6	2662.4	2667.0	2706.4	2777.7	2889.9	3032.4	3164.3	3179.5	3288.6	3346.2
22.5°	2900.5	2941.4	2905.0	2924.7	2988.4	3100.6	3255.3	3422.0	3443.3	3567.6	3619.1
25°	3370.5	3428.1	3334.1	3300.7	3328.0	3444.8	3638.9	3849.6	3873.9	3973.9	3999.7
27.5°	4293.9	4219.6	4077.0	3937.5	3855.7	3922.4	4140.7	4401.5	4431.8	4528.9	4498.5
30°	5308.2	5243.0	5050.4	4741.1	4547.1	4536.4	4738.1	5029.2	5064.1	5156.6	5064.1
32.5°	6324.0	6261.9	6052.6	5672.1	5335.5	5168.7	5308.2	5631.1	5649.3	5708.5	5572.0
35°	7323.2	7259.5	7050.3	6660.6	6246.7	5867.7	5840.4	6204.3	6210.3	6272.5	6069.3
37.5°	8328.4	8275.4	8052.5	7670.4	7262.6	6739.5	6486.3	6747.1	6754.6	6815.3	6604.5
40°	9045.6	9068.3	8915.2	8619.5	8269.3	7697.7	7211.0	7324.7	7279.2	7380.8	7255.0
42.5°	9661.2	9706.7	9573.2	9424.6	9221.5	8718.1	8108.6	8088.9	8016.1	8070.7	7940.3
45°	10193.4	10231.3	10111.5	10076.6	10072.1	9718.8	9089.6	8971.3	8869.7	8859.1	8702.9
47.5°	10388.9	10461.7	10513.3	10630.0	10857.4	10708.9	10103.9	9920.4	9806.7	9723.3	9476.2
50°	10463.2	10540.6	10716.4	11056.1	11594.3	11658.0	11113.7	10907.5	10768.0	10616.4	10252.5
52.5°	10363.2	10501.1	10737.7	11309.3	12090.1	12419.1	12082.5	11902.1	11742.9	11495.8	10956.0
55°	9773.4	9911.3	10395.0	11306.2	12337.2	12952.8	12998.3	12918.0	12739.0	12349.4	11524.6
57.5°	8530.1	8734.8	9500.5	10921.1	12332.7	13412.2	13895.9	13953.5	13753.4	13195.4	11971.8
60°	6807.7	7085.2	8019.1	10067.5	11952.1	13660.9	14682.8	14970.9	14758.6	14029.3	12334.2
62.5°	4750.2	5071.7	5955.6	8730.2	11081.8	13482.0	15257.4	15789.6	15628.9	14775.3	12473.7
65°	2897.4	3000.5	3713.2	6869.9	9602.0	12733.0	15434.8	16232.3	16179.3	15231.7	12267.5
67.5°	1930.1	2016.5	2221.2	4710.8	7453.6	11236.5	15010.3	16155.0	16170.2	15157.4	11512.4
70°	1162.9	1237.2	1370.6	2739.8	4830.6	8894.0	13695.8	15169.5	15257.4	14164.3	10081.2
72.5°	479.1	529.2	650.4	1241.8	2501.7	5644.8	10906.0	13024.1	13228.8	11909.7	7737.1
75°	271.4	297.2	382.1	623.2	1085.6	2630.6	6606.0	9245.7	9547.5	8208.7	4654.7
77.5°	180.4	192.6	247.1	403.3	611.0	897.6	2823.1	4816.9	5393.1	4483.4	2015.0
80°	121.3	131.9	169.8	269.9	397.2	385.1	899.1	1784.6	2195.4	1540.5	491.2
82.5°	81.9	83.4	121.3	177.4	251.7	186.5	265.3	554.9	697.4	445.8	186.5
85°	47.0	45.5	89.5	103.1	112.2	77.3	80.4	166.8	218.3	188.0	106.1
87.5°	6.1	9.1	34.9	27.3	15.2	16.7	16.7	28.8	42.5	45.5	22.7
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°	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6	2630.6
2.5°	2633.6	2632.1	2627.6	2623.0	2612.4	2606.3	2609.4	2606.3	2604.8	2606.3	2612.4
5°	2653.3	2648.8	2636.7	2621.5	2600.3	2574.5	2557.8	2533.6	2510.8	2497.2	2500.2
7.5°	2706.4	2701.9	2685.2	2642.7	2574.5	2466.8	2368.3	2281.9	2216.7	2178.8	2180.3
10°	2791.3	2783.7	2758.0	2663.9	2485.0	2250.0	2054.4	1892.2	1786.1	1736.0	1731.5
12.5°	2891.4	2882.3	2836.8	2644.2	2315.2	1948.3	1678.4	1498.0	1399.4	1355.5	1350.9
15°	3009.6	2997.5	2908.1	2550.2	2068.1	1614.7	1367.6	1232.7	1169.0	1129.6	1131.1
17.5°	3156.7	3135.5	2961.1	2409.2	1799.7	1360.0	1176.6	1075.0	1018.9	981.0	977.9
20°	3347.8	3312.9	3003.6	2240.9	1552.6	1199.3	1047.7	962.8	920.3	887.0	880.9
22.5°	3614.6	3564.6	3055.1	2059.0	1378.2	1088.6	952.2	890.0	855.1	817.2	811.2
25°	3945.1	3886.0	3118.8	1890.7	1258.4	993.1	882.4	830.9	789.9	746.0	741.4
27.5°	4407.6	4301.4	3194.6	1752.7	1155.3	911.2	818.7	761.1	714.1	677.7	670.2
30°	4923.1	4748.7	3261.3	1669.3	1061.3	835.4	735.4	677.7	633.8	608.0	603.4
32.5°	5411.3	5174.8	3305.3	1632.9	976.4	749.0	644.4	582.2	548.9	541.3	545.8
35°	5872.2	5559.9	3300.7	1598.1	900.6	662.6	554.9	491.2	465.5	470.0	470.0
37.5°	6402.9	5970.8	3268.9	1543.5	838.5	583.7	477.6	421.5	398.8	400.3	406.3
40°	7020.0	6445.3	3249.2	1440.4	770.2	511.0	413.9	368.4	351.8	345.7	344.2
42.5°	7678.0	6904.7	3252.2	1323.6	685.3	445.8	370.0	332.0	316.9	312.3	310.8
45°	8339.1	7342.9	3256.8	1202.3	595.9	395.7	338.1	306.3	297.2	291.1	291.1
47.5°	8960.7	7715.9	3171.9	1071.9	507.9	357.8	312.3	291.1	283.5	275.9	275.9
50°	9539.9	7964.6	2967.2	920.3	438.2	327.5	292.6	277.5	269.9	262.3	262.3
52.5°	9990.2	8004.0	2629.1	764.2	389.7	304.8	280.5	266.8	257.8	250.2	248.7
55°	10190.3	7756.8	2148.4	618.6	351.8	285.0	268.4	254.7	244.1	236.5	235.0
57.5°	10138.8	7236.8	1675.4	497.3	315.4	265.3	253.2	244.1	232.0	219.8	218.3
60°	9885.6	6540.8	1263.0	413.9	282.0	244.1	236.5	228.9	212.3	194.1	191.0
62.5°	9447.4	5666.0	900.6	342.7	245.6	219.8	216.8	210.8	186.5	153.1	150.1
65°	8777.2	4603.2	606.5	285.0	210.8	192.6	194.1	183.5	151.6	113.7	110.7
67.5°	7797.8	3365.9	388.1	233.5	175.9	160.7	162.2	156.2	128.9	97.0	92.5
70°	6549.9	2228.8	253.2	177.4	141.0	124.3	133.4	134.9	109.2	78.8	75.8
72.5°	4801.8	1316.1	177.4	131.9	103.1	86.4	109.2	112.2	87.9	59.1	56.1
75°	2736.7	624.7	133.4	95.5	63.7	60.6	84.9	84.9	60.6	39.4	36.4
77.5°	1149.3	260.8	94.0	62.2	36.4	34.9	57.6	53.1	30.3	18.2	18.2
80°	332.0	116.7	50.0	30.3	15.2	13.6	22.7	16.7	7.6	3.0	3.0
82.5°	130.4	51.6	19.7	12.1	6.1	6.1	3.0	0.0	0.0	0.0	0.0
85°	77.3	21.2	9.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	4.5	3.0	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)