

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: P883418

Luminaire Tested: **NAV-SB3D-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883418
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-SB3D-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 900mA 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: 23564 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

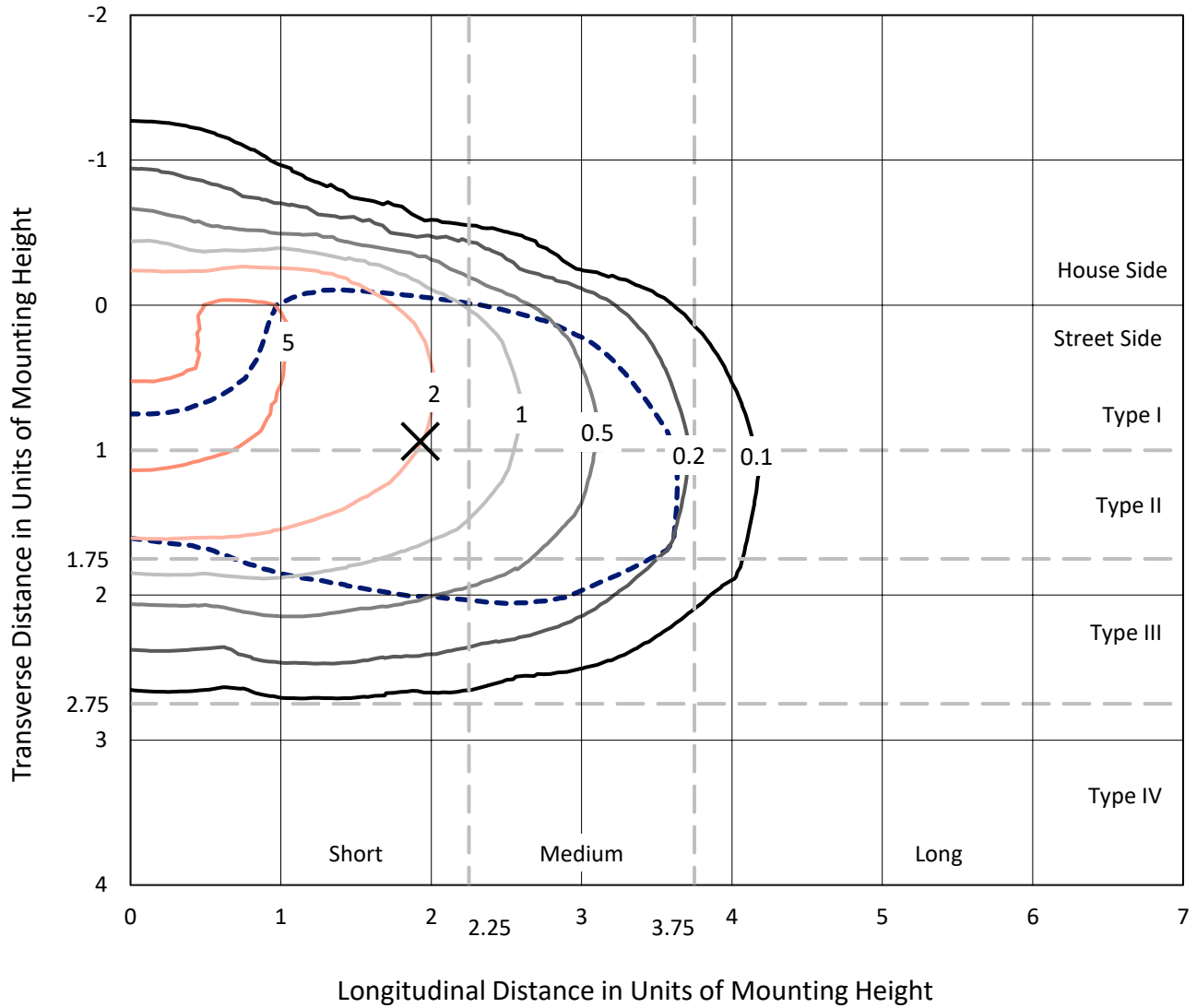
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

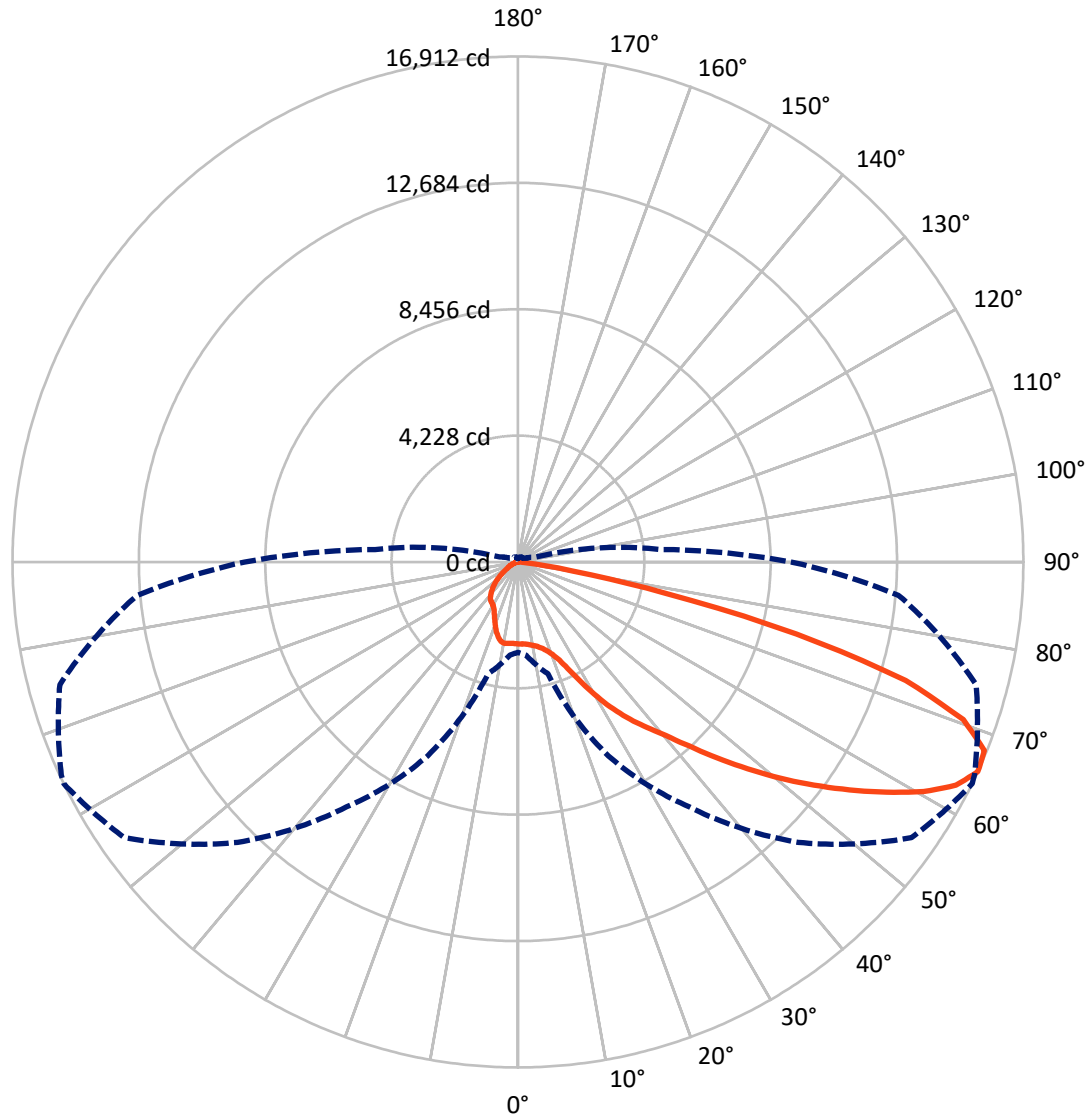
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3151.2	0.0	3151.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20412.8	0.0	20412.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	23564.0	0.0	23564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.9	1.1
10°-20°	685.8	2.9
20°-30°	1299.6	5.5
30°-40°	2629.8	11.2
40°-50°	4479.8	19.0
50°-60°	6092.2	25.9
60°-70°	5720.9	24.3
70°-80°	2292.0	9.7
80°-90°	111.0	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°	23564.0	100.0
0°-180°	23564.0	100.0

Coefficient of Utilization



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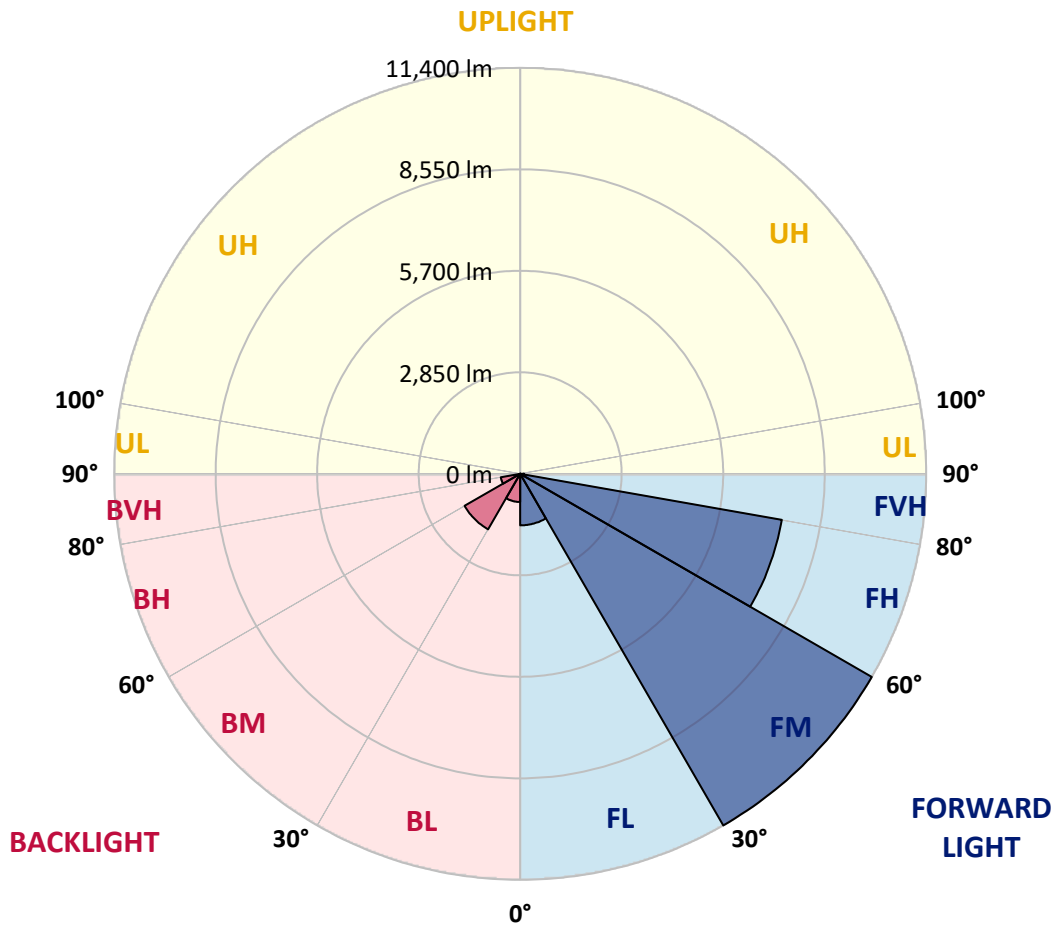
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.1	6.1			
FM (30°-60°)	11400.2	48.4			
FH (60°-80°)	7459.8	31.7			G3/7500
FVH (80°-90°)	105.6	0.4			G2/225
BL (0°-30°)	791.2	3.4	B2/1000		
BM (30°-60°)	1801.5	7.6	B2/2500		
BH (60°-80°)	553.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.4	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°	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7
2.5°	2731.3	2750.2	2745.5	2740.7	2739.2	2742.3	2743.9	2742.3	2742.3	2742.3	2743.9
5°	2679.1	2694.9	2694.9	2706.0	2721.8	2740.7	2755.0	2758.1	2761.3	2766.0	2764.4
7.5°	2579.6	2592.2	2601.7	2638.1	2677.6	2728.1	2770.8	2792.9	2796.0	2813.4	2819.7
10°	2511.7	2527.5	2543.3	2581.2	2638.1	2713.9	2786.5	2840.3	2848.2	2889.2	2908.2
12.5°	2508.5	2524.3	2544.9	2585.9	2652.3	2732.8	2821.3	2898.7	2912.9	2973.0	3012.4
15°	2541.7	2560.7	2579.6	2630.2	2701.2	2799.2	2894.0	2990.3	3004.5	3089.8	3132.5
17.5°	2609.6	2634.9	2649.1	2699.7	2775.5	2884.5	3009.3	3119.9	3132.5	3232.0	3285.7
20°	2743.9	2773.9	2778.7	2819.7	2894.0	3010.9	3159.4	3296.8	3312.6	3426.3	3486.3
22.5°	3021.9	3064.6	3026.7	3047.2	3113.5	3230.4	3391.6	3565.3	3587.4	3717.0	3770.7
25°	3511.6	3571.6	3473.7	3439.0	3467.4	3589.0	3791.2	4010.8	4036.1	4140.3	4167.2
27.5°	4473.6	4396.2	4247.7	4102.4	4017.1	4086.6	4314.1	4585.8	4617.4	4718.5	4686.9
30°	5530.4	5462.5	5261.9	4939.6	4737.4	4726.4	4936.5	5239.8	5276.1	5372.5	5276.1
32.5°	6588.8	6524.1	6306.1	5909.6	5558.9	5385.1	5530.4	5866.9	5885.9	5947.5	5805.3
35°	7629.8	7563.5	7345.5	6939.5	6508.3	6113.3	6084.9	6464.0	6470.4	6535.1	6323.4
37.5°	8677.2	8621.9	8389.7	7991.6	7566.6	7021.7	6757.9	7029.6	7037.5	7100.6	6881.1
40°	9424.3	9448.0	9288.5	8980.5	8615.6	8020.0	7512.9	7631.4	7584.0	7689.9	7558.7
42.5°	10065.7	10113.1	9974.1	9819.3	9607.6	9083.1	8448.1	8427.6	8351.7	8408.6	8272.8
45°	10620.2	10659.7	10534.9	10498.5	10493.8	10125.7	9470.2	9346.9	9241.1	9230.0	9067.3
47.5°	10823.9	10899.8	10953.5	11075.1	11312.1	11157.3	10527.0	10335.8	10217.3	10130.5	9873.0
50°	10901.3	10981.9	11165.2	11519.0	12079.8	12146.1	11579.0	11364.2	11218.9	11060.9	10681.8
52.5°	10797.1	10940.8	11187.3	11782.8	12596.3	12939.1	12588.4	12400.5	12234.6	11977.1	11414.7
55°	10182.6	10326.3	10830.3	11779.6	12853.8	13495.2	13542.6	13458.8	13272.4	12866.5	12007.1
57.5°	8887.3	9100.5	9898.2	11378.4	12849.1	13973.8	14477.7	14537.8	14329.2	13747.9	12473.1
60°	7092.7	7381.8	8354.9	10489.0	12452.6	14232.9	15297.6	15597.7	15376.6	14616.7	12850.7
62.5°	4949.1	5284.0	6205.0	9095.8	11545.9	14046.5	15896.3	16450.7	16283.3	15393.9	12996.0
65°	3018.8	3126.2	3868.6	7157.5	10004.1	13266.1	16081.1	16912.0	16856.7	15869.4	12781.2
67.5°	2010.9	2101.0	2314.2	4908.1	7765.7	11707.0	15638.8	16831.4	16847.2	15792.0	11994.5
70°	1211.6	1289.0	1428.0	2854.5	5032.8	9266.4	14269.2	15804.7	15896.3	14757.3	10503.3
72.5°	499.2	551.3	677.7	1293.8	2606.5	5881.1	11362.6	13569.4	13782.7	12408.4	8061.1
75°	282.8	309.6	398.1	649.2	1131.0	2740.7	6882.6	9632.9	9947.2	8552.4	4849.6
77.5°	188.0	200.6	257.5	420.2	636.6	935.2	2941.4	5018.6	5618.9	4671.1	2099.4
80°	126.4	137.4	176.9	281.2	413.9	401.2	936.7	1859.3	2287.4	1605.0	511.8
82.5°	85.3	86.9	126.4	184.8	262.2	194.3	276.4	578.2	726.7	464.4	194.3
85°	49.0	47.4	93.2	107.4	116.9	80.6	83.7	173.8	227.5	195.9	110.6
87.5°	6.3	9.5	36.3	28.4	15.8	17.4	17.4	30.0	44.2	47.4	23.7
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°	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7	2740.7
2.5°	2743.9	2742.3	2737.6	2732.8	2721.8	2715.5	2718.6	2715.5	2713.9	2715.5	2721.8
5°	2764.4	2759.7	2747.1	2731.3	2709.1	2682.3	2664.9	2639.6	2615.9	2601.7	2604.9
7.5°	2819.7	2815.0	2797.6	2753.4	2682.3	2570.1	2467.5	2377.4	2309.5	2270.0	2271.6
10°	2908.2	2900.3	2873.4	2775.5	2589.1	2344.2	2140.5	1971.4	1860.9	1808.7	1804.0
12.5°	3012.4	3003.0	2955.6	2755.0	2412.2	2029.9	1748.7	1560.7	1458.0	1412.2	1407.5
15°	3135.7	3123.0	3029.8	2657.0	2154.7	1682.4	1424.9	1284.3	1217.9	1176.9	1178.4
17.5°	3288.9	3266.8	3085.1	2510.1	1875.1	1417.0	1225.8	1120.0	1061.5	1022.1	1018.9
20°	3487.9	3451.6	3129.3	2334.8	1617.6	1249.5	1091.6	1003.1	958.9	924.1	917.8
22.5°	3765.9	3713.8	3183.0	2145.2	1435.9	1134.2	992.0	927.3	890.9	851.4	845.1
25°	4110.3	4048.7	3249.4	1969.9	1311.1	1034.7	919.4	865.7	823.0	777.2	772.5
27.5°	4592.1	4481.5	3328.4	1826.1	1203.7	949.4	853.0	793.0	744.0	706.1	698.2
30°	5129.2	4947.5	3397.9	1739.2	1105.8	870.4	766.1	706.1	660.3	633.5	628.7
32.5°	5637.9	5391.4	3443.7	1701.3	1017.3	780.4	671.4	606.6	571.8	563.9	568.7
35°	6118.1	5792.7	3439.0	1665.0	938.3	690.3	578.2	511.8	485.0	489.7	489.7
37.5°	6671.0	6220.8	3405.8	1608.1	873.6	608.2	497.6	439.1	415.5	417.0	423.4
40°	7313.9	6715.2	3385.2	1500.7	802.5	532.4	431.3	383.9	366.5	360.2	358.6
42.5°	7999.5	7193.8	3388.4	1379.1	714.0	464.4	385.4	345.9	330.2	325.4	323.8
45°	8688.2	7650.4	3393.1	1252.7	620.8	412.3	352.3	319.1	309.6	303.3	303.3
47.5°	9335.9	8039.0	3304.7	1116.8	529.2	372.8	325.4	303.3	295.4	287.5	287.5
50°	9939.3	8298.0	3091.4	958.9	456.5	341.2	304.9	289.1	281.2	273.3	273.3
52.5°	10408.5	8339.1	2739.2	796.2	406.0	317.5	292.2	278.0	268.5	260.6	259.1
55°	10617.0	8081.6	2238.4	644.5	366.5	297.0	279.6	265.4	254.3	246.4	244.8
57.5°	10563.3	7539.8	1745.5	518.1	328.6	276.4	263.8	254.3	241.7	229.1	227.5
60°	10299.5	6814.7	1315.9	431.3	293.8	254.3	246.4	238.5	221.2	202.2	199.0
62.5°	9843.0	5903.2	938.3	357.0	255.9	229.1	225.9	219.6	194.3	159.5	156.4
65°	9144.7	4795.9	631.9	297.0	219.6	200.6	202.2	191.1	158.0	118.5	115.3
67.5°	8124.3	3506.9	404.4	243.3	183.2	167.4	169.0	162.7	134.3	101.1	96.4
70°	6824.2	2322.1	263.8	184.8	146.9	129.5	139.0	140.6	113.7	82.1	79.0
72.5°	5002.8	1371.2	184.8	137.4	107.4	90.0	113.7	116.9	91.6	61.6	58.4
75°	2851.3	650.8	139.0	99.5	66.3	63.2	88.5	88.5	63.2	41.1	37.9
77.5°	1197.4	271.7	97.9	64.8	37.9	36.3	60.0	55.3	31.6	19.0	19.0
80°	345.9	121.6	52.1	31.6	15.8	14.2	23.7	17.4	7.9	3.2	3.2
82.5°	135.9	53.7	20.5	12.6	6.3	6.3	3.2	0.0	0.0	0.0	0.0
85°	80.6	22.1	9.5	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	4.7	3.2	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)