

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: P884988

Luminaire Tested: **NAV-SB6A-760-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884988
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-SB6A-760-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 350mA 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: 23022 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

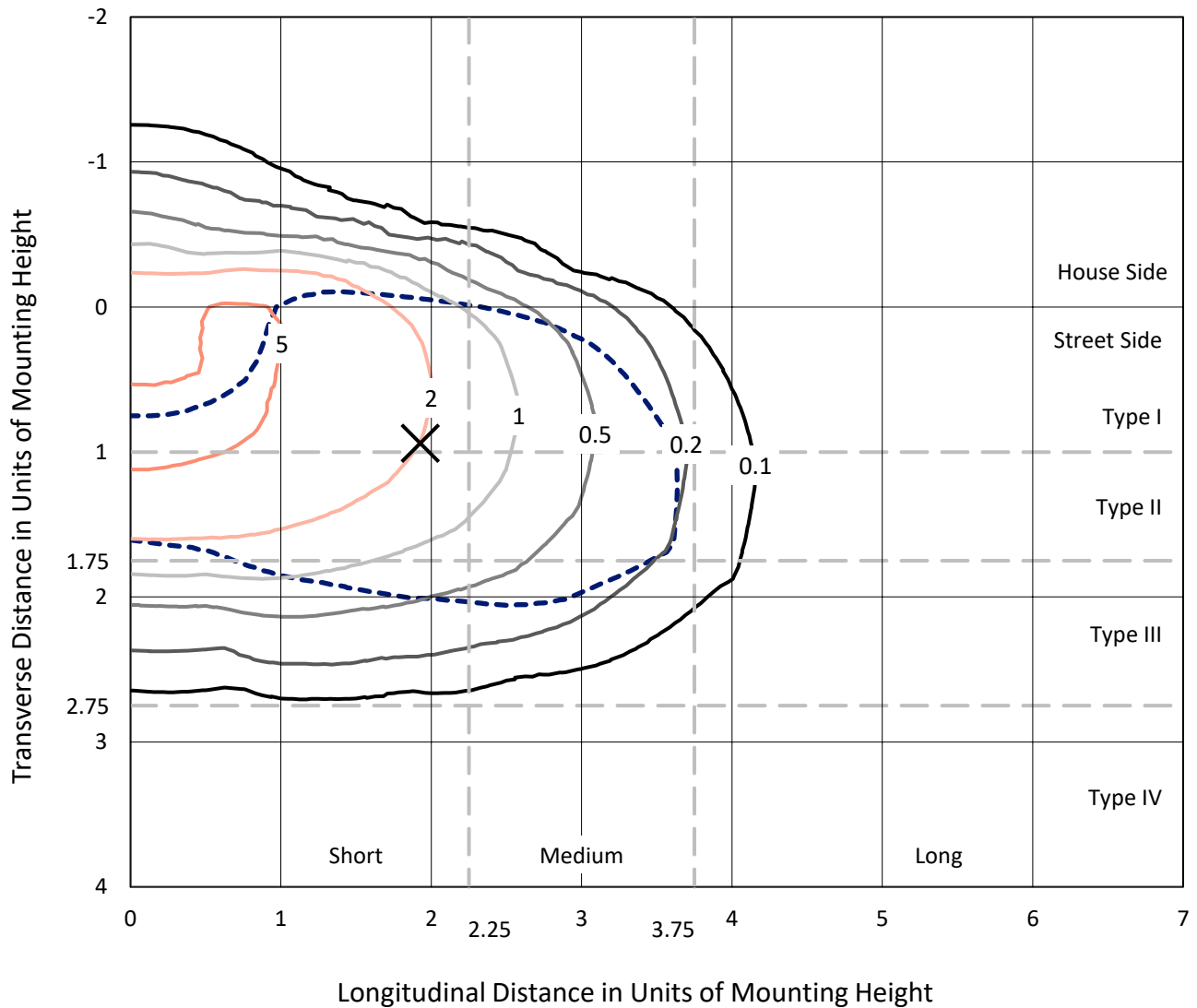
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

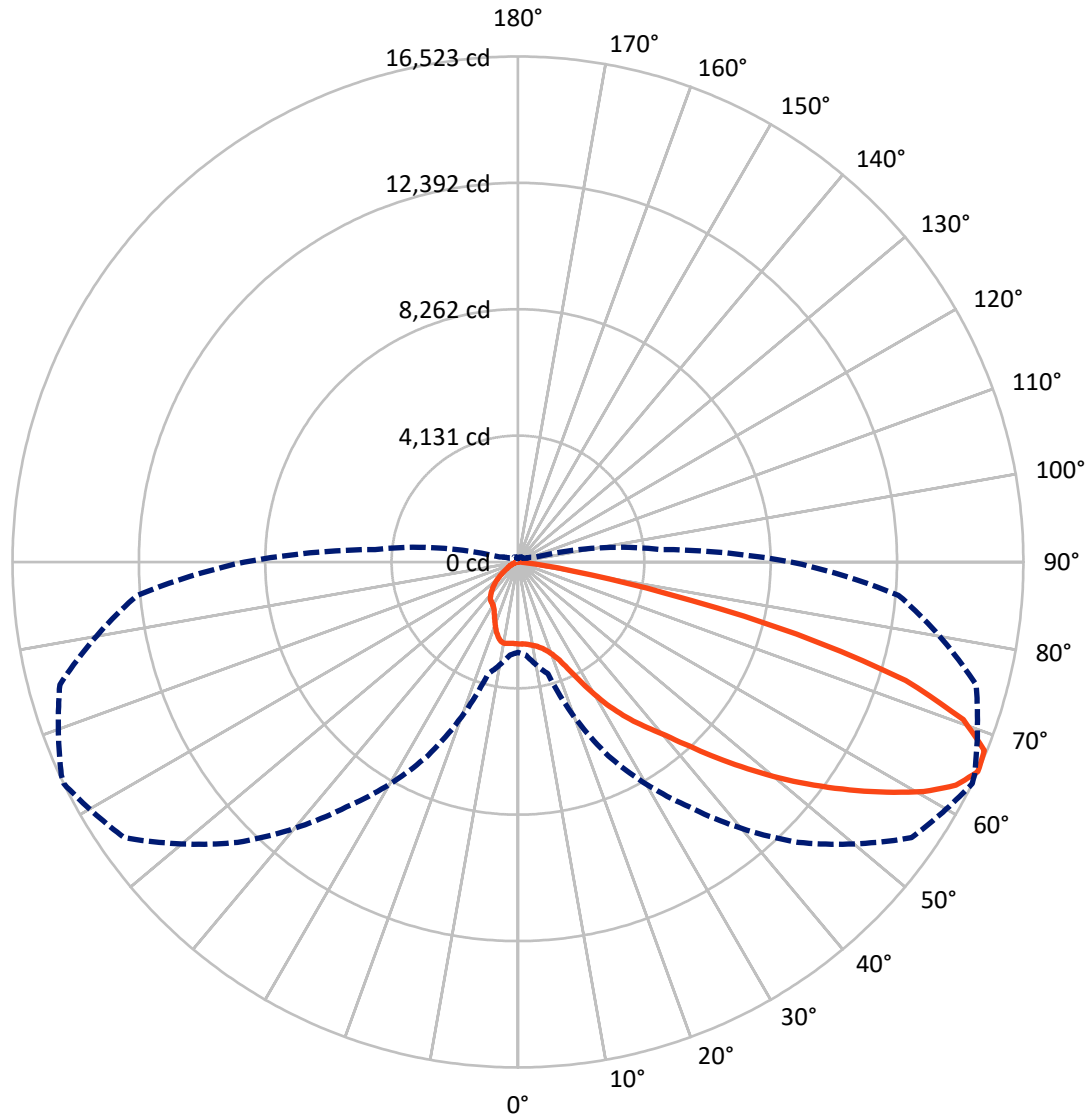
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3078.7	0.0	3078.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19943.3	0.0	19943.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	23022.0	0.0	23022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	1.1
10°-20°	670.1	2.9
20°-30°	1269.7	5.5
30°-40°	2569.3	11.2
40°-50°	4376.8	19.0
50°-60°	5952.1	25.9
60°-70°	5589.3	24.3
70°-80°	2239.3	9.7
80°-90°	108.5	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°	23022.0	100.0
0°-180°	23022.0	100.0

Coefficient of Utilization



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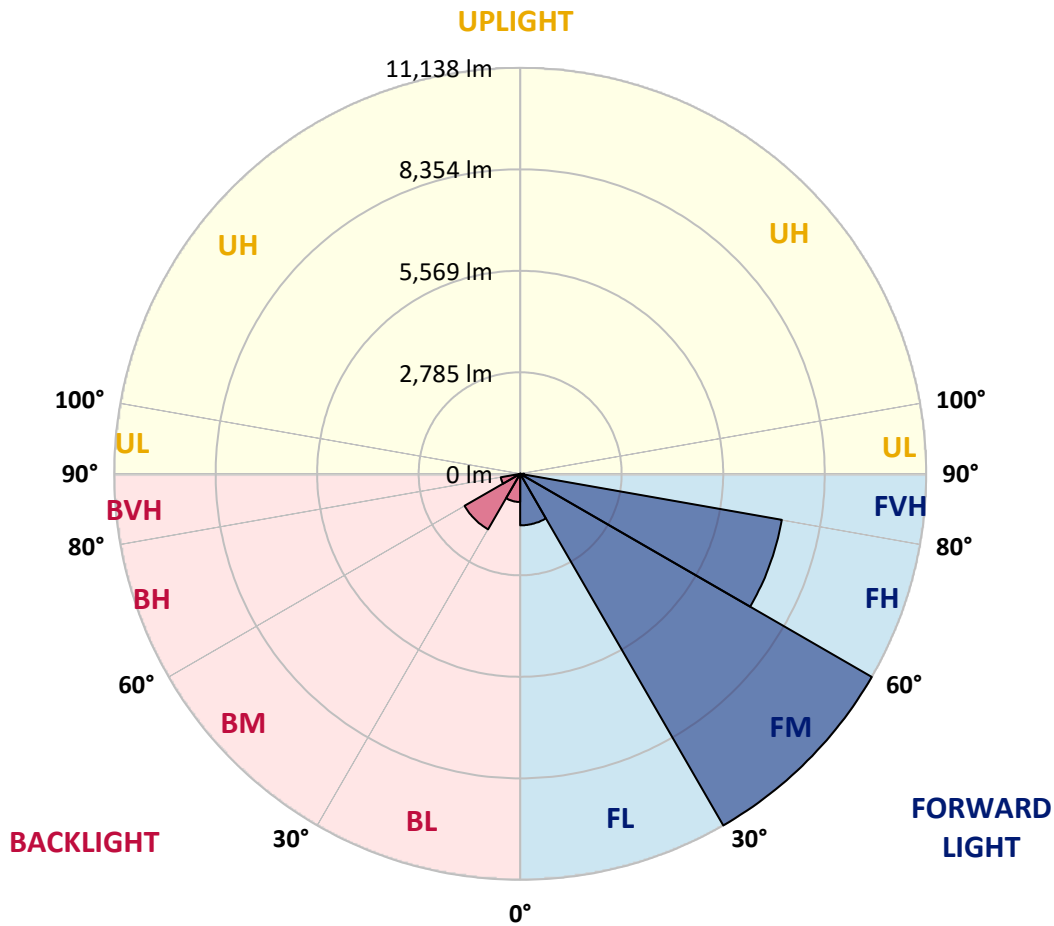
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.8	6.1			
FM (30°-60°)	11138.0	48.4			
FH (60°-80°)	7288.2	31.7			G3/7500
FVH (80°-90°)	103.2	0.4			G2/225
BL (0°-30°)	773.0	3.4	B2/1000		
BM (30°-60°)	1760.1	7.6	B2/2500		
BH (60°-80°)	540.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.3	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°	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7
2.5°	2668.4	2687.0	2682.3	2677.7	2676.2	2679.2	2680.8	2679.2	2679.2	2679.2	2680.8
5°	2617.5	2632.9	2632.9	2643.7	2659.2	2677.7	2691.6	2694.7	2697.8	2702.4	2700.8
7.5°	2520.3	2532.6	2541.9	2577.4	2616.0	2665.4	2707.0	2728.6	2731.7	2748.7	2754.9
10°	2453.9	2469.3	2484.8	2521.8	2577.4	2651.5	2722.5	2774.9	2782.6	2822.8	2841.3
12.5°	2450.8	2466.3	2486.3	2526.5	2591.3	2670.0	2756.4	2832.0	2845.9	2904.6	2943.2
15°	2483.2	2501.8	2520.3	2569.7	2639.1	2734.8	2827.4	2921.5	2935.4	3018.8	3060.4
17.5°	2549.6	2574.3	2588.2	2637.6	2711.7	2818.1	2940.1	3048.1	3060.4	3157.7	3210.2
20°	2680.8	2710.1	2714.7	2754.9	2827.4	2941.6	3086.7	3221.0	3236.4	3347.5	3406.2
22.5°	2952.4	2994.1	2957.0	2977.1	3041.9	3156.1	3313.6	3483.3	3504.9	3631.5	3684.0
25°	3430.8	3489.5	3393.8	3359.9	3387.6	3506.5	3704.0	3918.5	3943.2	4045.1	4071.3
27.5°	4370.7	4295.1	4150.0	4008.1	3924.7	3992.6	4214.9	4480.3	4511.2	4610.0	4579.1
30°	5403.2	5336.9	5140.9	4826.0	4628.5	4617.7	4822.9	5119.3	5154.8	5248.9	5154.8
32.5°	6437.3	6374.0	6161.0	5773.6	5431.0	5261.3	5403.2	5732.0	5750.5	5810.7	5671.8
35°	7454.3	7389.5	7176.5	6779.9	6358.6	5972.7	5945.0	6315.4	6321.5	6384.8	6178.0
37.5°	8477.6	8423.6	8196.7	7807.8	7392.6	6860.2	6602.4	6867.9	6875.6	6937.3	6722.8
40°	9207.6	9230.7	9074.8	8773.9	8417.4	7835.5	7340.1	7455.9	7409.6	7513.0	7384.9
42.5°	9834.2	9880.5	9744.7	9593.4	9386.6	8874.2	8253.8	8233.7	8159.6	8215.2	8082.5
45°	10375.9	10414.5	10292.5	10257.0	10252.4	9892.8	9252.3	9132.0	9028.5	9017.7	8858.8
47.5°	10575.0	10649.1	10701.5	10820.4	11051.9	10900.6	10284.8	10098.1	9982.3	9897.4	9645.9
50°	10650.6	10729.3	10908.3	11254.0	11801.9	11866.8	11312.7	11102.8	10960.8	10806.5	10436.1
52.5°	10548.7	10689.2	10929.9	11511.8	12306.6	12641.5	12298.9	12115.2	11953.2	11701.6	11152.2
55°	9948.4	10088.8	10581.1	11508.7	12558.2	13184.8	13231.1	13149.3	12967.2	12570.5	11730.9
57.5°	8682.8	8891.2	9670.6	11116.7	12553.5	13652.4	14144.7	14203.4	13999.7	13431.7	12186.2
60°	6929.6	7212.0	8162.7	10247.8	12166.2	13905.5	14945.7	15239.0	15022.9	14280.5	12555.1
62.5°	4835.3	5162.5	6062.2	8886.6	11280.3	13723.4	15530.6	16072.4	15908.8	15039.9	12697.1
65°	2949.3	3054.3	3779.6	6992.9	9774.0	12961.0	15711.2	16523.0	16469.0	15504.4	12487.2
67.5°	1964.7	2052.6	2261.0	4795.2	7587.1	11437.7	15279.1	16444.3	16459.7	15428.8	11718.6
70°	1183.7	1259.4	1395.2	2788.8	4917.1	9053.2	13941.0	15441.1	15530.6	14417.9	10261.7
72.5°	487.7	538.6	662.1	1264.0	2546.5	5745.9	11101.3	13257.3	13465.7	12122.9	7875.7
75°	276.3	302.5	388.9	634.3	1105.0	2677.7	6724.3	9411.3	9718.4	8355.7	4738.1
77.5°	183.7	196.0	251.6	410.5	622.0	913.7	2873.7	4903.2	5489.7	4563.7	2051.1
80°	123.5	134.3	172.9	274.7	404.4	392.0	915.2	1816.5	2234.8	1568.0	500.0
82.5°	83.3	84.9	123.5	180.6	256.2	189.8	270.1	564.9	709.9	453.7	189.8
85°	47.8	46.3	91.1	104.9	114.2	78.7	81.8	169.8	222.2	191.4	108.0
87.5°	6.2	9.3	35.5	27.8	15.4	17.0	17.0	29.3	43.2	46.3	23.2
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°	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7	2677.7
2.5°	2680.8	2679.2	2674.6	2670.0	2659.2	2653.0	2656.1	2653.0	2651.5	2653.0	2659.2
5°	2700.8	2696.2	2683.9	2668.4	2646.8	2620.6	2603.6	2578.9	2555.8	2541.9	2545.0
7.5°	2754.9	2750.2	2733.3	2690.0	2620.6	2511.0	2410.7	2322.7	2256.4	2217.8	2219.3
10°	2841.3	2833.6	2807.3	2711.7	2529.5	2290.3	2091.2	1926.1	1818.1	1767.1	1762.5
12.5°	2943.2	2933.9	2887.6	2691.6	2356.7	1983.2	1708.5	1524.8	1424.5	1379.7	1375.1
15°	3063.5	3051.2	2960.1	2595.9	2105.1	1643.7	1392.1	1254.7	1189.9	1149.8	1151.3
17.5°	3213.2	3191.6	3014.1	2452.4	1831.9	1384.4	1197.6	1094.2	1037.1	998.5	995.5
20°	3407.7	3372.2	3057.4	2281.1	1580.4	1220.8	1066.4	980.0	936.8	902.9	896.7
22.5°	3679.3	3628.4	3109.8	2095.9	1402.9	1108.1	969.2	905.9	870.4	831.9	825.7
25°	4015.8	3955.6	3174.7	1924.5	1281.0	1010.9	898.2	845.8	804.1	759.3	754.7
27.5°	4486.5	4378.5	3251.8	1784.1	1176.0	927.5	833.4	774.8	726.9	689.9	682.2
30°	5011.2	4833.7	3319.7	1699.2	1080.3	850.4	748.5	689.9	645.1	618.9	614.2
32.5°	5508.2	5267.4	3364.5	1662.2	993.9	762.4	655.9	592.6	558.7	551.0	555.6
35°	5977.4	5659.4	3359.9	1626.7	916.7	674.4	564.9	500.0	473.8	478.4	478.4
37.5°	6517.5	6077.7	3327.4	1571.1	853.5	594.2	486.2	429.0	405.9	407.4	413.6
40°	7145.7	6560.7	3307.4	1466.2	784.0	520.1	421.3	375.0	358.1	351.9	350.3
42.5°	7815.5	7028.4	3310.5	1347.3	697.6	453.7	376.6	338.0	322.6	317.9	316.4
45°	8488.4	7474.4	3315.1	1223.9	606.5	402.8	344.2	311.8	302.5	296.3	296.3
47.5°	9121.1	7854.1	3228.7	1091.1	517.0	364.2	317.9	296.3	288.6	280.9	280.9
50°	9710.7	8107.2	3020.3	936.8	446.0	333.4	297.9	282.4	274.7	267.0	267.0
52.5°	10169.1	8147.3	2676.2	777.8	396.6	310.2	285.5	271.6	262.4	254.7	253.1
55°	10372.8	7895.7	2186.9	629.7	358.1	290.1	273.2	259.3	248.5	240.8	239.2
57.5°	10320.3	7366.4	1705.4	506.2	321.0	270.1	257.7	248.5	236.1	223.8	222.2
60°	10062.6	6658.0	1285.6	421.3	287.1	248.5	240.8	233.0	216.1	197.5	194.5
62.5°	9616.6	5767.5	916.7	348.8	250.0	223.8	220.7	214.5	189.8	155.9	152.8
65°	8934.4	4685.6	617.3	290.1	214.5	196.0	197.5	186.7	154.3	115.8	112.7
67.5°	7937.4	3426.2	395.1	237.7	179.0	163.6	165.1	159.0	131.2	98.8	94.1
70°	6667.2	2268.7	257.7	180.6	143.5	126.6	135.8	137.4	111.1	80.3	77.2
72.5°	4887.8	1339.6	180.6	134.3	104.9	88.0	111.1	114.2	89.5	60.2	57.1
75°	2785.7	635.9	135.8	97.2	64.8	61.7	86.4	86.4	61.7	40.1	37.0
77.5°	1169.9	265.5	95.7	63.3	37.0	35.5	58.6	54.0	30.9	18.5	18.5
80°	338.0	118.8	50.9	30.9	15.4	13.9	23.2	17.0	7.7	3.1	3.1
82.5°	132.7	52.5	20.1	12.3	6.2	6.2	3.1	0.0	0.0	0.0	0.0
85°	78.7	21.6	9.3	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.1	4.6	3.1	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)