

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: P885118

Luminaire Tested: **NAV-SB6B-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885118
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-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 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: 26387 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

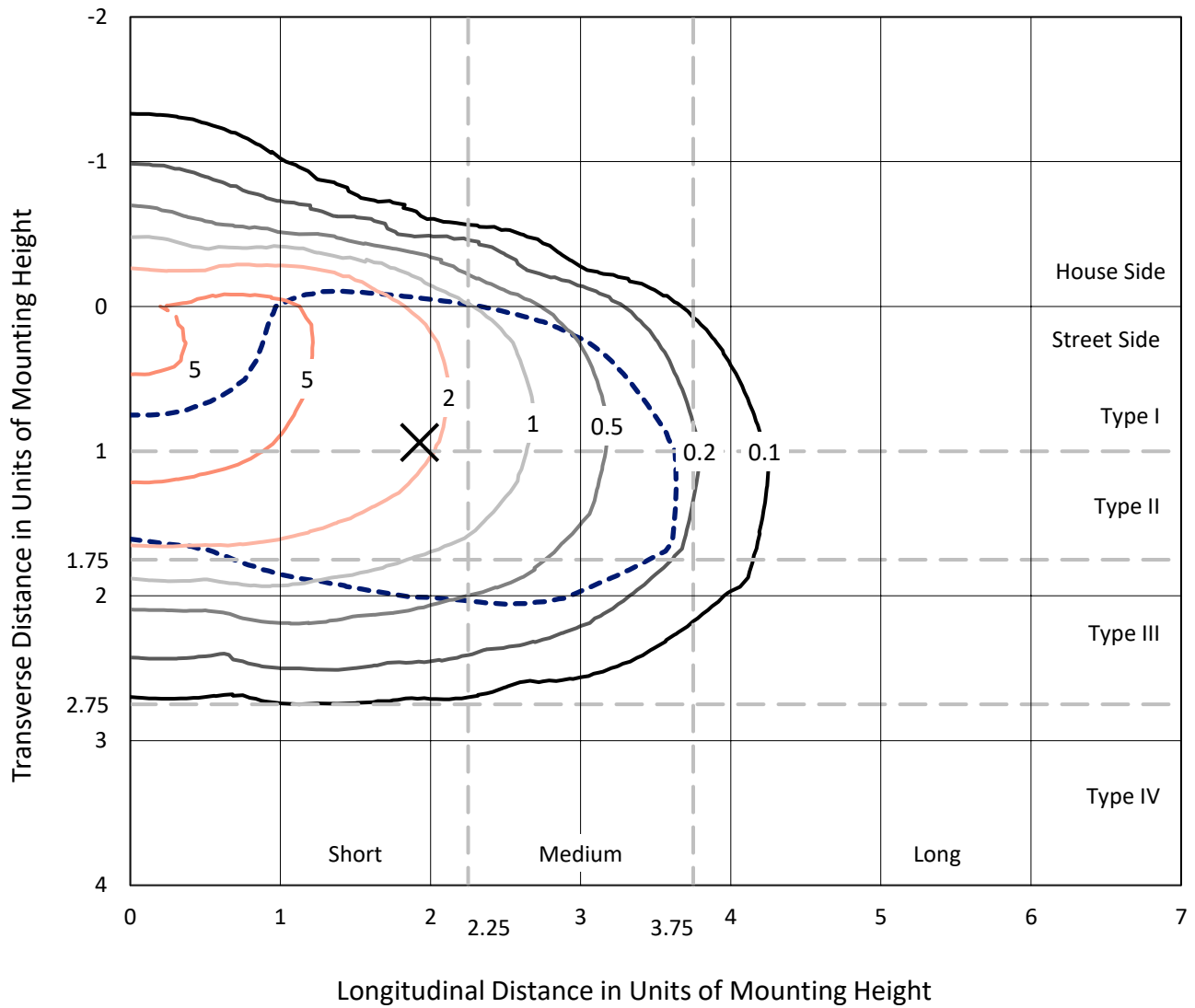
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

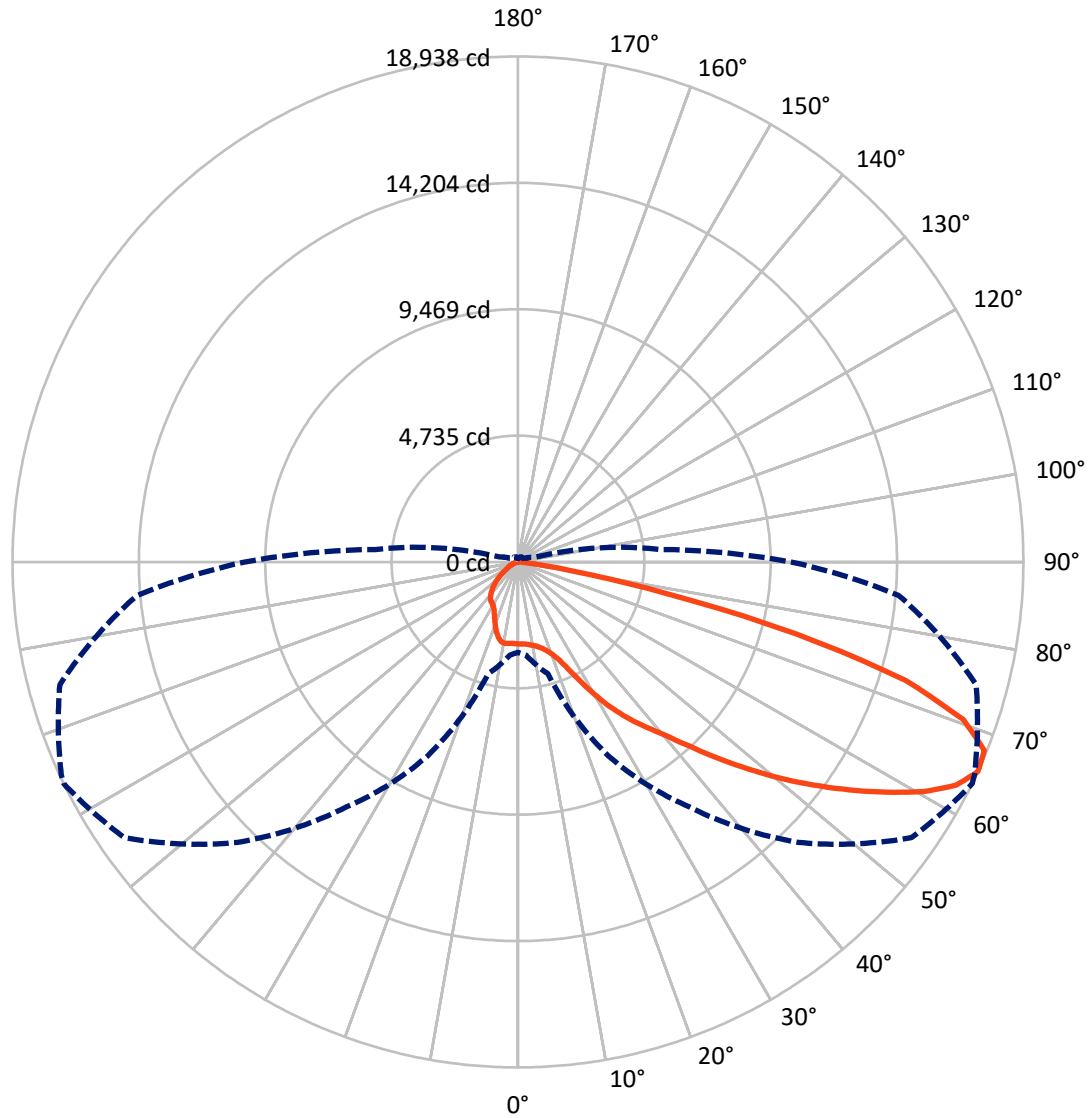
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3528.8	0.0	3528.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22858.3	0.0	22858.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	26387.0	0.0	26387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	1.1
10°-20°	768.0	2.9
20°-30°	1455.3	5.5
30°-40°	2944.8	11.2
40°-50°	5016.5	19.0
50°-60°	6822.1	25.9
60°-70°	6406.3	24.3
70°-80°	2566.6	9.7
80°-90°	124.3	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°	26387.0	100.0
0°-180°	26387.0	100.0

Coefficient of Utilization



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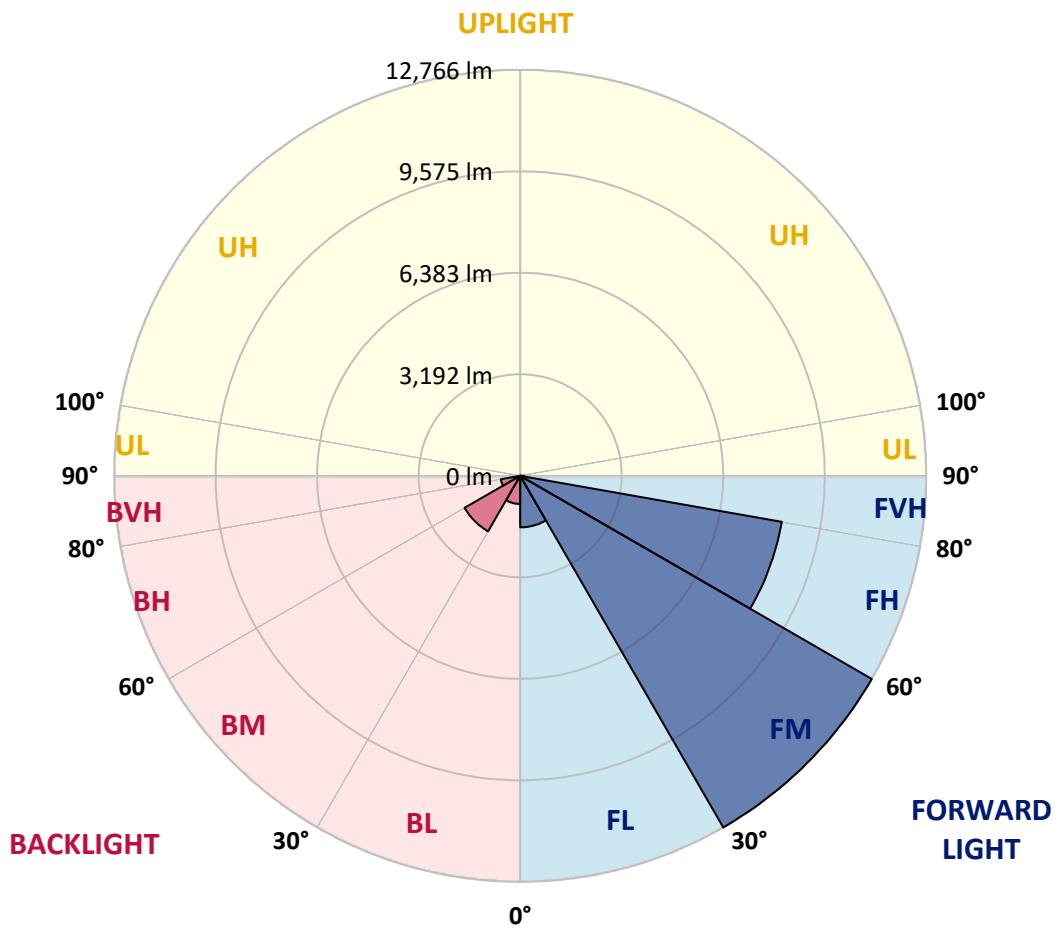
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1620.5	6.1			
FM (30°-60°)	12766.0	48.4			
FH (60°-80°)	8353.5	31.7			G4/12000
FVH (80°-90°)	118.3	0.4			G2/225
BL (0°-30°)	886.0	3.4	B2/1000		
BM (30°-60°)	2017.4	7.6	B2/2500		
BH (60°-80°)	619.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1
2.5°	3058.5	3079.7	3074.4	3069.1	3067.3	3070.9	3072.6	3070.9	3070.9	3070.9	3072.6
5°	3000.1	3017.8	3017.8	3030.2	3047.9	3069.1	3085.0	3088.5	3092.1	3097.4	3095.6
7.5°	2888.7	2902.8	2913.4	2954.1	2998.3	3054.9	3102.7	3127.5	3131.0	3150.5	3157.5
10°	2812.6	2830.3	2848.0	2890.4	2954.1	3039.0	3120.4	3180.5	3189.4	3235.4	3256.6
12.5°	2809.1	2826.7	2849.7	2895.7	2970.0	3060.2	3159.3	3246.0	3261.9	3329.1	3373.3
15°	2846.2	2867.4	2888.7	2945.3	3024.9	3134.5	3240.7	3348.6	3364.5	3460.0	3507.8
17.5°	2922.3	2950.6	2966.5	3023.1	3108.0	3230.1	3369.8	3493.6	3507.8	3619.2	3679.4
20°	3072.6	3106.2	3111.5	3157.5	3240.7	3371.6	3537.8	3691.7	3709.4	3836.8	3904.0
22.5°	3384.0	3431.7	3389.3	3412.3	3486.5	3617.4	3797.9	3992.5	4017.2	4162.3	4222.4
25°	3932.3	3999.5	3889.9	3850.9	3882.8	4019.0	4245.4	4491.3	4519.6	4636.3	4666.4
27.5°	5009.6	4922.9	4756.6	4593.9	4498.4	4576.2	4830.9	5135.2	5170.6	5283.8	5248.4
30°	6193.0	6116.9	5892.3	5531.4	5305.0	5292.6	5527.9	5867.5	5908.2	6016.1	5908.2
32.5°	7378.2	7305.7	7061.5	6617.5	6224.8	6030.3	6193.0	6569.8	6591.0	6660.0	6500.8
35°	8543.9	8469.6	8225.5	7770.9	7288.0	6845.7	6813.9	7238.4	7245.5	7318.0	7081.0
37.5°	9716.7	9654.8	9394.8	8949.0	8473.1	7862.9	7567.5	7871.7	7880.6	7951.3	7705.4
40°	10553.4	10579.9	10401.3	10056.3	9647.7	8980.8	8413.0	8545.7	8492.6	8611.1	8464.3
42.5°	11271.6	11324.6	11169.0	10995.6	10758.6	10171.3	9460.2	9437.2	9352.3	9416.0	9263.9
45°	11892.5	11936.7	11797.0	11756.3	11751.0	11338.8	10604.7	10466.7	10348.2	10335.8	10153.6
47.5°	12120.7	12205.6	12265.7	12401.9	12667.3	12493.9	11788.1	11574.1	11441.4	11344.1	11055.8
50°	12207.3	12297.6	12502.8	12899.0	13527.0	13601.3	12966.2	12725.6	12562.9	12386.0	11961.5
52.5°	12090.6	12251.6	12527.5	13194.4	14105.4	14489.3	14096.6	13886.0	13700.3	13412.0	12782.2
55°	11402.5	11563.5	12127.7	13190.9	14393.7	15111.9	15165.0	15071.2	14862.5	14407.9	13445.6
57.5°	9952.0	10190.8	11084.1	12741.6	14388.4	15647.9	16212.2	16279.4	16045.9	15394.9	13967.4
60°	7942.5	8266.2	9355.8	11745.7	13944.4	15938.0	17130.3	17466.3	17218.7	16367.8	14390.2
62.5°	5542.0	5917.0	6948.3	10185.5	12929.1	15729.3	17800.7	18421.6	18234.1	17238.2	14552.9
65°	3380.4	3500.7	4332.1	8015.0	11202.6	14855.4	18007.6	18938.1	18876.2	17770.6	14312.4
67.5°	2251.8	2352.7	2591.5	5496.0	8696.0	13109.5	17512.3	18847.9	18865.6	17683.9	13431.4
70°	1356.8	1443.4	1599.1	3196.4	5635.8	10376.5	15978.7	17698.1	17800.7	16525.3	11761.6
72.5°	559.0	617.4	758.9	1448.7	2918.7	6585.7	12723.9	15195.1	15433.9	13894.9	9026.8
75°	316.6	346.7	445.8	727.0	1266.5	3069.1	7707.2	10786.9	11138.9	9577.0	5430.6
77.5°	210.5	224.7	288.3	470.5	712.9	1047.2	3293.7	5619.9	6292.1	5230.7	2350.9
80°	141.5	153.9	198.1	314.9	463.5	449.3	1049.0	2082.0	2561.4	1797.2	573.1
82.5°	95.5	97.3	141.5	207.0	293.6	217.6	309.6	647.4	813.7	520.1	217.6
85°	54.8	53.1	104.4	120.3	130.9	90.2	93.8	194.6	254.7	219.3	123.8
87.5°	7.1	10.6	40.7	31.8	17.7	19.5	19.5	33.6	49.5	53.1	26.5
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°	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1	3069.1
2.5°	3072.6	3070.9	3065.5	3060.2	3047.9	3040.8	3044.3	3040.8	3039.0	3040.8	3047.9
5°	3095.6	3090.3	3076.2	3058.5	3033.7	3003.6	2984.2	2955.9	2929.3	2913.4	2917.0
7.5°	3157.5	3152.2	3132.8	3083.2	3003.6	2878.0	2763.1	2662.2	2586.2	2541.9	2543.7
10°	3256.6	3247.7	3217.7	3108.0	2899.3	2625.1	2396.9	2207.6	2083.8	2025.4	2020.1
12.5°	3373.3	3362.7	3309.7	3085.0	2701.1	2273.1	1958.2	1747.7	1632.7	1581.4	1576.1
15°	3511.3	3497.2	3392.8	2975.3	2412.8	1883.9	1595.6	1438.1	1363.8	1317.8	1319.6
17.5°	3682.9	3658.1	3454.7	2810.8	2099.7	1586.7	1372.7	1254.2	1188.7	1144.5	1141.0
20°	3905.8	3865.1	3504.2	2614.5	1811.4	1399.2	1222.3	1123.3	1073.7	1034.8	1027.7
22.5°	4217.1	4158.7	3564.4	2402.2	1608.0	1270.1	1110.9	1038.4	997.7	953.4	946.4
25°	4602.7	4533.8	3638.7	2205.8	1468.2	1158.6	1029.5	969.4	921.6	870.3	865.0
27.5°	5142.3	5018.4	3727.1	2044.9	1347.9	1063.1	955.2	888.0	833.2	790.7	781.9
30°	5743.7	5540.3	3805.0	1947.6	1238.2	974.7	857.9	790.7	739.4	709.3	704.0
32.5°	6313.3	6037.3	3856.3	1905.1	1139.2	873.8	751.8	679.3	640.4	631.5	636.8
35°	6851.0	6486.6	3850.9	1864.4	1050.7	773.0	647.4	573.1	543.1	548.4	548.4
37.5°	7470.2	6966.0	3813.8	1800.8	978.2	681.0	557.2	491.8	465.2	467.0	474.1
40°	8190.1	7519.7	3790.8	1680.5	898.6	596.1	482.9	429.8	410.4	403.3	401.5
42.5°	8957.8	8055.7	3794.3	1544.3	799.6	520.1	431.6	387.4	369.7	364.4	362.6
45°	9729.1	8566.9	3799.6	1402.8	695.2	461.7	394.5	357.3	346.7	339.6	339.6
47.5°	10454.3	9002.1	3700.6	1250.6	592.6	417.5	364.4	339.6	330.8	321.9	321.9
50°	11130.1	9292.2	3461.8	1073.7	511.2	382.1	341.4	323.7	314.9	306.0	306.0
52.5°	11655.4	9338.1	3067.3	891.5	454.6	355.6	327.3	311.3	300.7	291.9	290.1
55°	11888.9	9049.8	2506.6	721.7	410.4	332.6	313.1	297.2	284.8	276.0	274.2
57.5°	11828.8	8443.1	1954.7	580.2	367.9	309.6	295.4	284.8	270.6	256.5	254.7
60°	11533.4	7631.1	1473.5	482.9	329.0	284.8	276.0	267.1	247.6	226.4	222.9
62.5°	11022.2	6610.5	1050.7	399.8	286.6	256.5	253.0	245.9	217.6	178.7	175.1
65°	10240.3	5370.5	707.6	332.6	245.9	224.7	226.4	214.0	176.9	132.7	129.1
67.5°	9097.6	3927.0	452.8	272.4	205.2	187.5	189.3	182.2	150.4	113.2	107.9
70°	7641.7	2600.3	295.4	207.0	164.5	145.1	155.7	157.4	127.4	92.0	88.4
72.5°	5602.2	1535.4	207.0	153.9	120.3	100.8	127.4	130.9	102.6	69.0	65.5
75°	3192.9	728.8	155.7	111.4	74.3	70.8	99.1	99.1	70.8	46.0	42.5
77.5°	1340.8	304.3	109.7	72.5	42.5	40.7	67.2	61.9	35.4	21.2	21.2
80°	387.4	136.2	58.4	35.4	17.7	15.9	26.5	19.5	8.8	3.5	3.5
82.5°	152.1	60.1	23.0	14.2	7.1	7.1	3.5	0.0	0.0	0.0	0.0
85°	90.2	24.8	10.6	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.0	5.3	3.5	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	0.0

(END OF REPORT)