

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: P885498

Luminaire Tested: **NAV-SB6D-760-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885498
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-SB6D-760-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 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: 52225 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

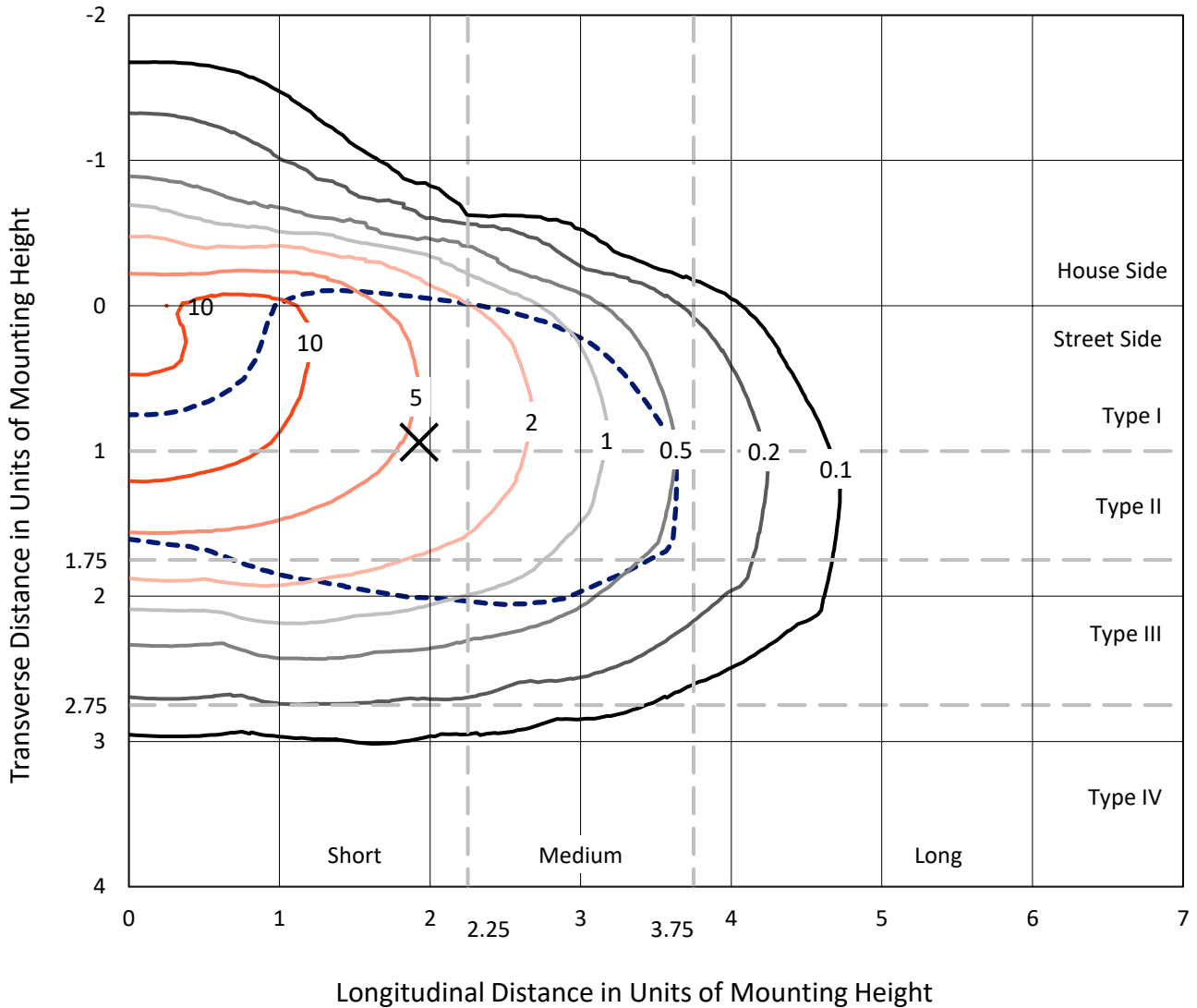
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

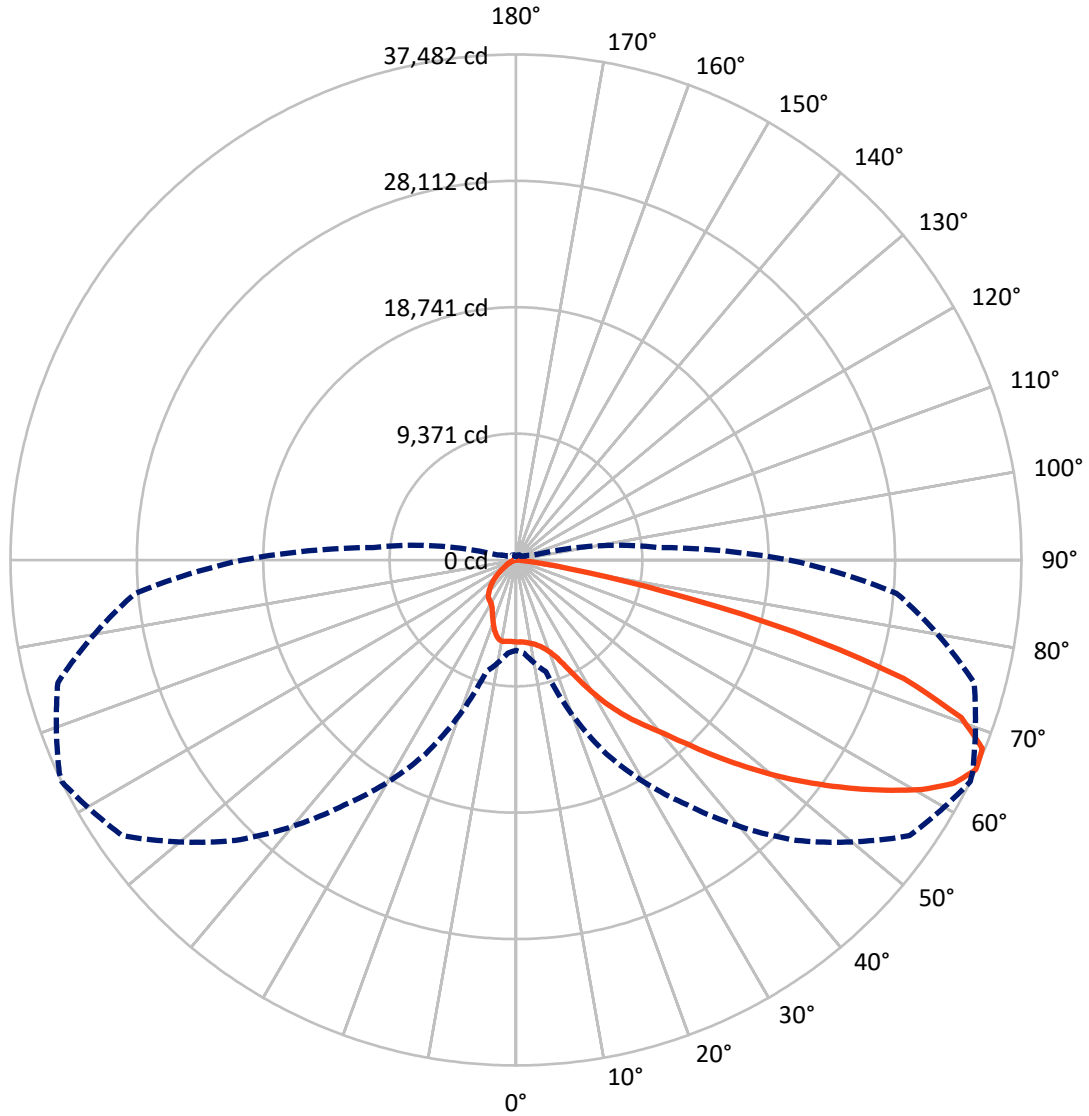
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	6984.1	0.0	6984.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	45240.9	0.0	45240.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	52225.0	0.0	52225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.4	1.1
10°-20°	1520.0	2.9
20°-30°	2880.3	5.5
30°-40°	5828.3	11.2
40°-50°	9928.6	19.0
50°-60°	13502.2	25.9
60°-70°	12679.2	24.3
70°-80°	5079.8	9.7
80°-90°	246.1	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°	52225.0	100.0
0°-180°	52225.0	100.0

Coefficient of Utilization



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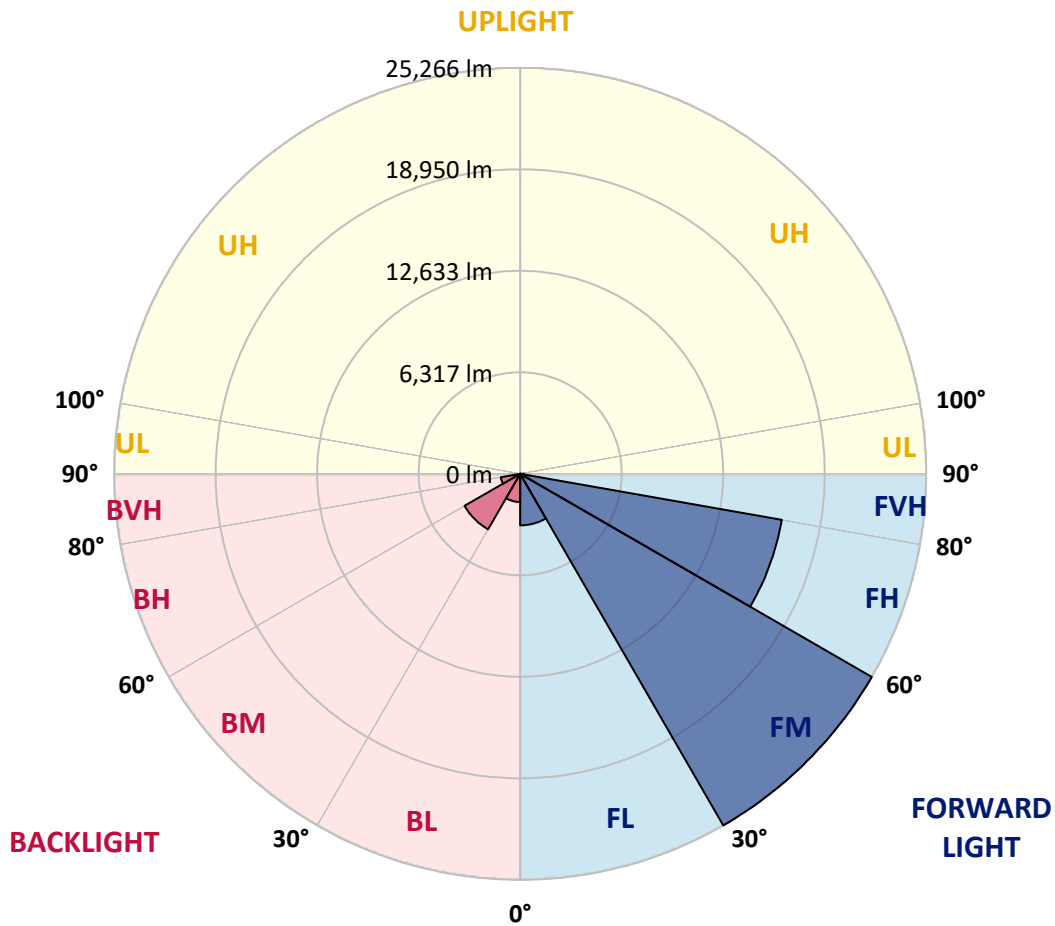
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3207.2	6.1			
FM (30°-60°)	25266.4	48.4			
FH (60°-80°)	16533.2	31.7			G5
FVH (80°-90°)	234.1	0.4			G3/500
BL (0°-30°)	1753.5	3.4	B3/2500		
BM (30°-60°)	3992.7	7.6	B3/5000		
BH (60°-80°)	1225.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	12.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3
2.5°	6053.3	6095.3	6084.8	6074.3	6070.8	6077.8	6081.3	6077.8	6077.8	6077.8	6081.3
5°	5937.8	5972.8	5972.8	5997.3	6032.3	6074.3	6105.8	6112.8	6119.8	6130.3	6126.8
7.5°	5717.2	5745.2	5766.2	5846.7	5934.3	6046.3	6140.8	6189.8	6196.8	6235.4	6249.4
10°	5566.7	5601.7	5636.7	5720.7	5846.7	6014.8	6175.8	6294.9	6312.4	6403.4	6445.4
12.5°	5559.7	5594.7	5640.2	5731.2	5878.3	6056.8	6252.9	6424.4	6455.9	6589.0	6676.5
15°	5633.2	5675.2	5717.2	5829.2	5986.8	6203.8	6413.9	6627.5	6659.0	6848.0	6942.6
17.5°	5783.7	5839.7	5871.2	5983.3	6151.3	6392.9	6669.5	6914.6	6942.6	7163.1	7282.2
20°	6081.3	6147.8	6158.3	6249.4	6413.9	6673.0	7002.1	7306.7	7341.7	7593.8	7726.8
22.5°	6697.5	6792.0	6708.0	6753.5	6900.6	7159.6	7516.7	7901.9	7950.9	8238.0	8357.0
25°	7782.8	7915.9	7698.8	7621.8	7684.8	7954.4	8402.5	8889.1	8945.2	9176.2	9235.8
27.5°	9915.0	9743.4	9414.3	9092.2	8903.2	9057.2	9561.3	10163.5	10233.5	10457.6	10387.6
30°	12257.2	12106.6	11662.0	10947.8	10499.6	10475.1	10940.8	11613.0	11693.5	11907.0	11693.5
32.5°	14602.9	14459.3	13976.2	13097.4	12320.2	11935.1	12257.2	13002.9	13044.9	13181.4	12866.3
35°	16910.0	16763.0	16279.9	15380.1	14424.3	13549.0	13486.0	14326.3	14340.3	14483.8	14014.7
37.5°	19231.2	19108.7	18594.0	17711.8	16770.0	15562.1	14977.5	15579.6	15597.1	15737.2	15250.5
40°	20887.2	20939.7	20586.1	19903.4	19094.7	17774.8	16651.0	16913.5	16808.5	17043.1	16752.5
42.5°	22308.6	22413.7	22105.6	21762.5	21293.3	20131.0	18723.6	18678.1	18510.0	18636.1	18335.0
45°	23537.5	23625.0	23348.5	23267.9	23257.4	22441.7	20988.8	20715.7	20481.1	20456.6	20096.0
47.5°	23989.1	24157.2	24276.2	24545.8	25071.0	24727.9	23331.0	22907.3	22644.7	22452.2	21881.5
50°	24160.7	24339.3	24745.4	25529.6	26772.5	26919.5	25662.6	25186.5	24864.4	24514.3	23674.1
52.5°	23929.6	24248.2	24794.4	26114.3	27917.3	28677.0	27899.8	27483.2	27115.6	26544.9	25298.5
55°	22567.7	22886.3	24003.2	26107.3	28488.0	29909.4	30014.4	29828.9	29415.8	28516.0	26611.4
57.5°	19696.9	20169.5	21937.5	25218.0	28477.5	30970.2	32087.1	32220.1	31758.0	30469.6	27644.2
60°	15719.7	16360.4	18517.0	23246.9	27598.7	31544.4	33904.1	34569.3	34079.2	32395.2	28481.0
62.5°	10968.8	11711.0	13752.1	20159.0	25589.1	31131.3	35231.0	36459.9	36088.8	34117.7	28803.1
65°	6690.5	6928.6	8574.1	15863.2	22172.1	29401.8	35640.6	37482.2	37359.6	35171.5	28326.9
67.5°	4456.8	4656.4	5129.0	10877.7	17211.1	25946.2	34660.3	37303.6	37338.6	34999.9	26583.4
70°	2685.3	2856.9	3164.9	6326.4	11154.3	20537.1	31624.9	35027.9	35231.0	32706.7	23278.4
72.5°	1106.3	1221.9	1501.9	2867.4	5776.7	13034.4	25183.0	30074.0	30546.6	27500.7	17865.8
75°	626.7	686.2	882.3	1438.9	2506.7	6074.3	15254.0	21349.4	22046.1	18954.6	10748.2
77.5°	416.6	444.6	570.7	931.3	1410.9	2072.6	6518.9	11122.8	12453.2	10352.6	4652.9
80°	280.1	304.6	392.1	623.2	917.3	889.3	2076.1	4120.7	5069.5	3557.1	1134.3
82.5°	189.1	192.6	280.1	409.6	581.2	430.6	612.7	1281.4	1610.5	1029.3	430.6
85°	108.5	105.0	206.6	238.1	259.1	178.6	185.6	385.1	504.2	434.1	245.1
87.5°	14.0	21.0	80.5	63.0	35.0	38.5	38.5	66.5	98.0	105.0	52.5
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°	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3	6074.3
2.5°	6081.3	6077.8	6067.3	6056.8	6032.3	6018.3	6025.3	6018.3	6014.8	6018.3	6032.3
5°	6126.8	6116.3	6088.3	6053.3	6004.3	5944.8	5906.3	5850.2	5797.7	5766.2	5773.2
7.5°	6249.4	6238.9	6200.3	6102.3	5944.8	5696.2	5468.6	5269.1	5118.5	5031.0	5034.5
10°	6445.4	6427.9	6368.4	6151.3	5738.2	5195.5	4743.9	4369.3	4124.2	4008.7	3998.2
12.5°	6676.5	6655.5	6550.5	6105.8	5346.1	4498.8	3875.7	3459.0	3231.5	3129.9	3119.4
15°	6949.6	6921.6	6715.0	5888.8	4775.4	3728.6	3157.9	2846.3	2699.3	2608.3	2611.8
17.5°	7289.2	7240.2	6837.5	5563.2	4155.7	3140.4	2716.8	2482.2	2352.7	2265.2	2258.2
20°	7730.3	7649.8	6935.6	5174.5	3585.1	2769.3	2419.2	2223.2	2125.1	2048.1	2034.1
22.5°	8346.5	8231.0	7054.6	4754.4	3182.4	2513.7	2198.7	2055.1	1974.6	1887.1	1873.1
25°	9109.7	8973.2	7201.6	4365.8	2905.9	2293.2	2037.6	1918.6	1824.0	1722.5	1712.0
27.5°	10177.5	9932.5	7376.7	4047.2	2667.8	2104.1	1890.6	1757.5	1649.0	1565.0	1547.5
30°	11367.9	10965.3	7530.7	3854.6	2450.7	1929.1	1698.0	1565.0	1463.4	1403.9	1393.4
32.5°	12495.2	11949.1	7632.3	3770.6	2254.7	1729.5	1487.9	1344.4	1267.4	1249.9	1260.4
35°	13559.5	12838.3	7621.8	3690.1	2079.6	1530.0	1281.4	1134.3	1074.8	1085.3	1085.3
37.5°	14784.9	13787.1	7548.2	3564.1	1936.1	1347.9	1102.8	973.3	920.8	924.3	938.3
40°	16209.8	14882.9	7502.7	3326.0	1778.5	1179.9	955.8	850.8	812.2	798.2	794.7
42.5°	17729.3	15943.8	7509.7	3056.4	1582.5	1029.3	854.3	766.7	731.7	721.2	717.7
45°	19255.7	16955.6	7520.2	2776.3	1375.9	913.8	780.7	707.2	686.2	672.2	672.2
47.5°	20691.2	17816.8	7324.2	2475.2	1172.8	826.2	721.2	672.2	654.7	637.2	637.2
50°	22028.6	18391.0	6851.5	2125.1	1011.8	756.2	675.7	640.7	623.2	605.7	605.7
52.5°	23068.4	18482.0	6070.8	1764.5	899.8	703.7	647.7	616.2	595.2	577.7	574.2
55°	23530.5	17911.3	4961.0	1428.4	812.2	658.2	619.7	588.2	563.7	546.2	542.7
57.5°	23411.5	16710.5	3868.7	1148.3	728.2	612.7	584.7	563.7	535.7	507.7	504.2
60°	22826.8	15103.5	2916.4	955.8	651.2	563.7	546.2	528.7	490.1	448.1	441.1
62.5°	21815.0	13083.4	2079.6	791.2	567.2	507.7	500.6	486.6	430.6	353.6	346.6
65°	20267.5	10629.2	1400.4	658.2	486.6	444.6	448.1	423.6	350.1	262.6	255.6
67.5°	18005.9	7772.3	896.3	539.2	406.1	371.1	374.6	360.6	297.6	224.1	213.6
70°	15124.5	5146.5	584.7	409.6	325.6	287.1	308.1	311.6	252.1	182.1	175.1
72.5°	11087.8	3038.9	409.6	304.6	238.1	199.6	252.1	259.1	203.1	136.5	129.5
75°	6319.4	1442.4	308.1	220.6	147.0	140.0	196.1	196.1	140.0	91.0	84.0
77.5°	2653.8	602.2	217.1	143.5	84.0	80.5	133.0	122.5	70.0	42.0	42.0
80°	766.7	269.6	115.5	70.0	35.0	31.5	52.5	38.5	17.5	7.0	7.0
82.5°	301.1	119.0	45.5	28.0	14.0	14.0	7.0	0.0	0.0	0.0	0.0
85°	178.6	49.0	21.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.5	10.5	7.0	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)