

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: P885458

Luminaire Tested: **NAV-SB6D-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885458
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-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 47684 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

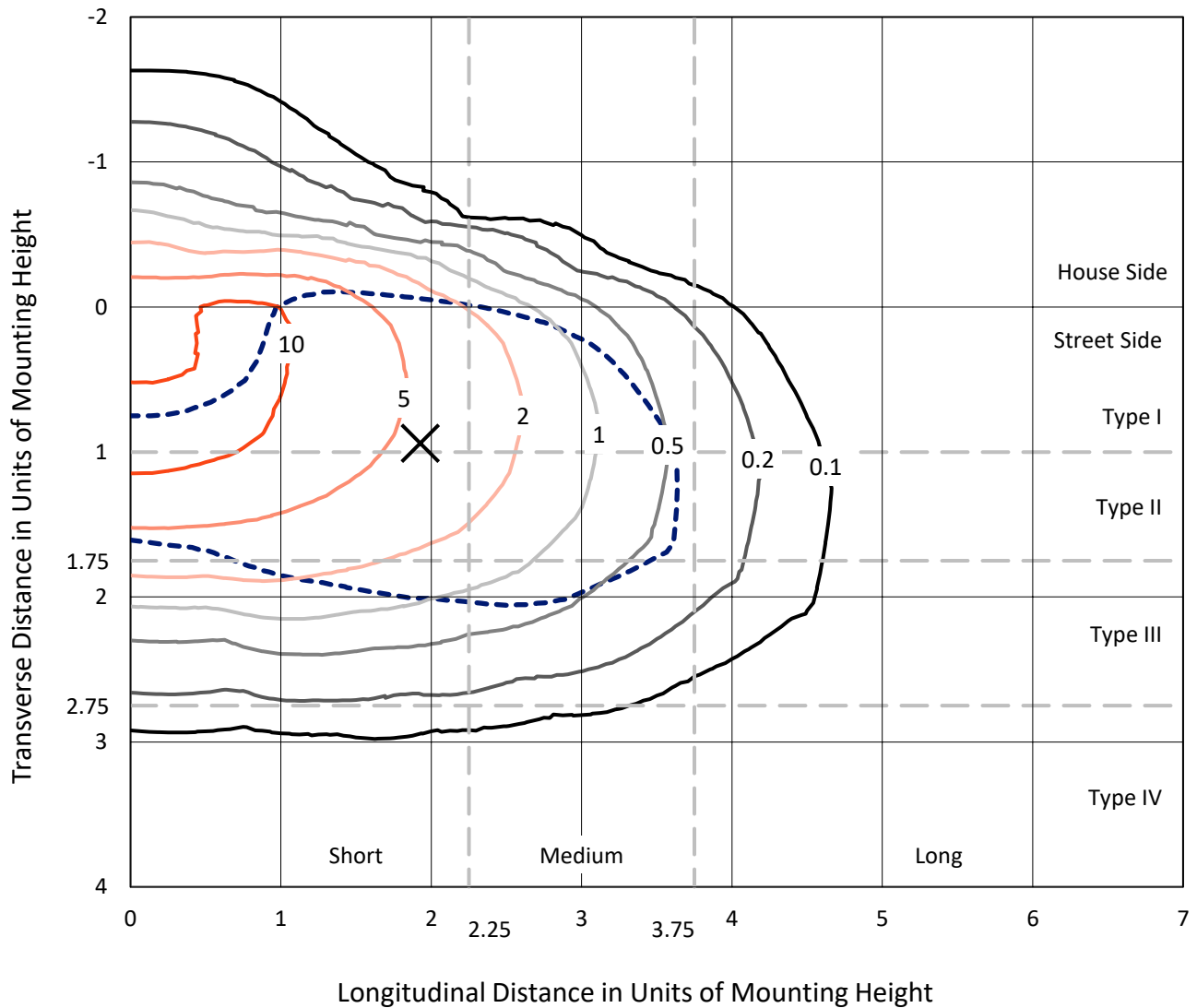
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

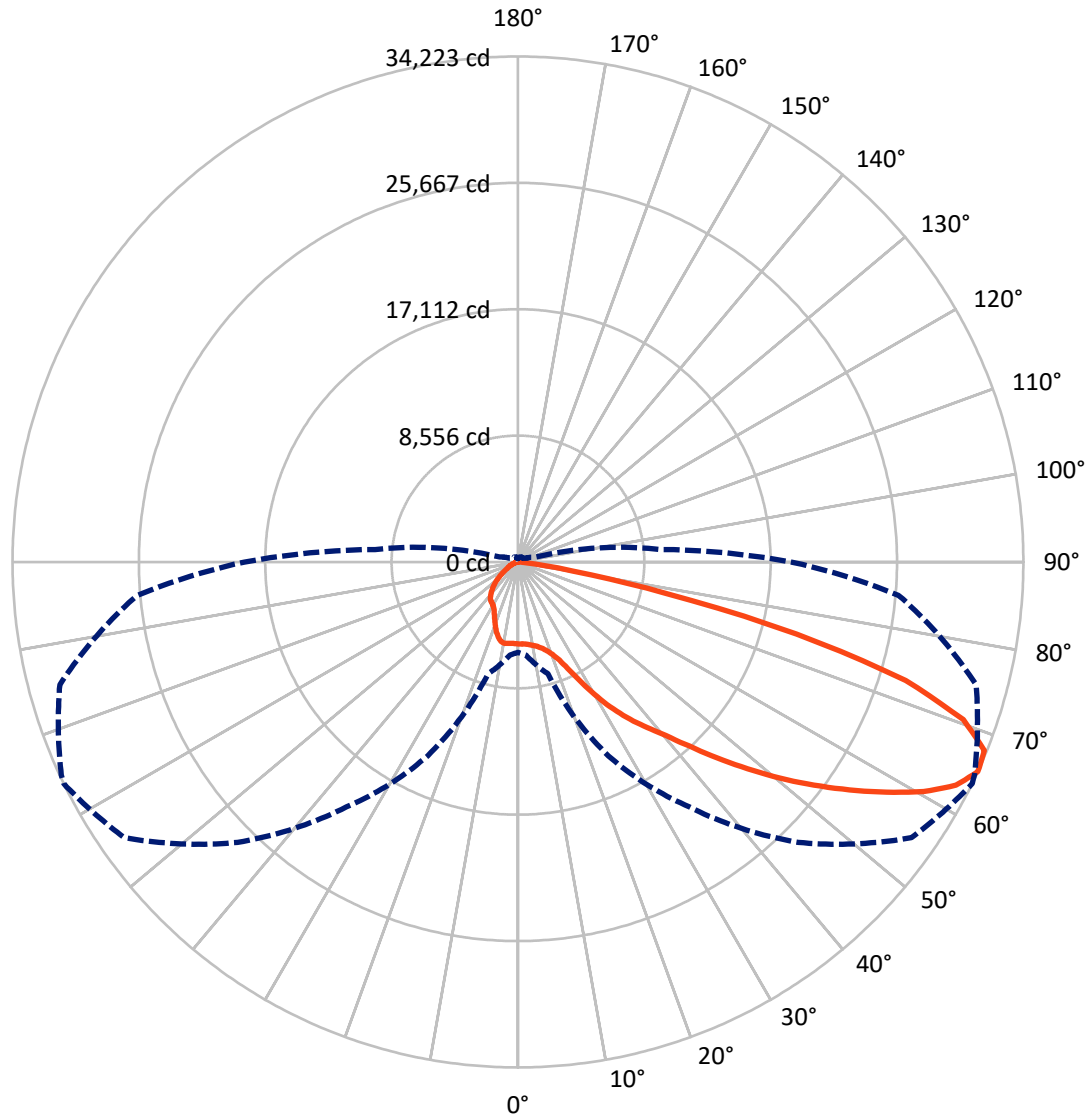
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	6376.8	0.0	6376.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	41307.2	0.0	41307.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	47684.0	0.0	47684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.7	1.1
10°-20°	1387.8	2.9
20°-30°	2629.8	5.5
30°-40°	5321.6	11.2
40°-50°	9065.3	19.0
50°-60°	12328.1	25.9
60°-70°	11576.7	24.3
70°-80°	4638.1	9.7
80°-90°	224.7	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°	47684.0	100.0
0°-180°	47684.0	100.0

Coefficient of Utilization



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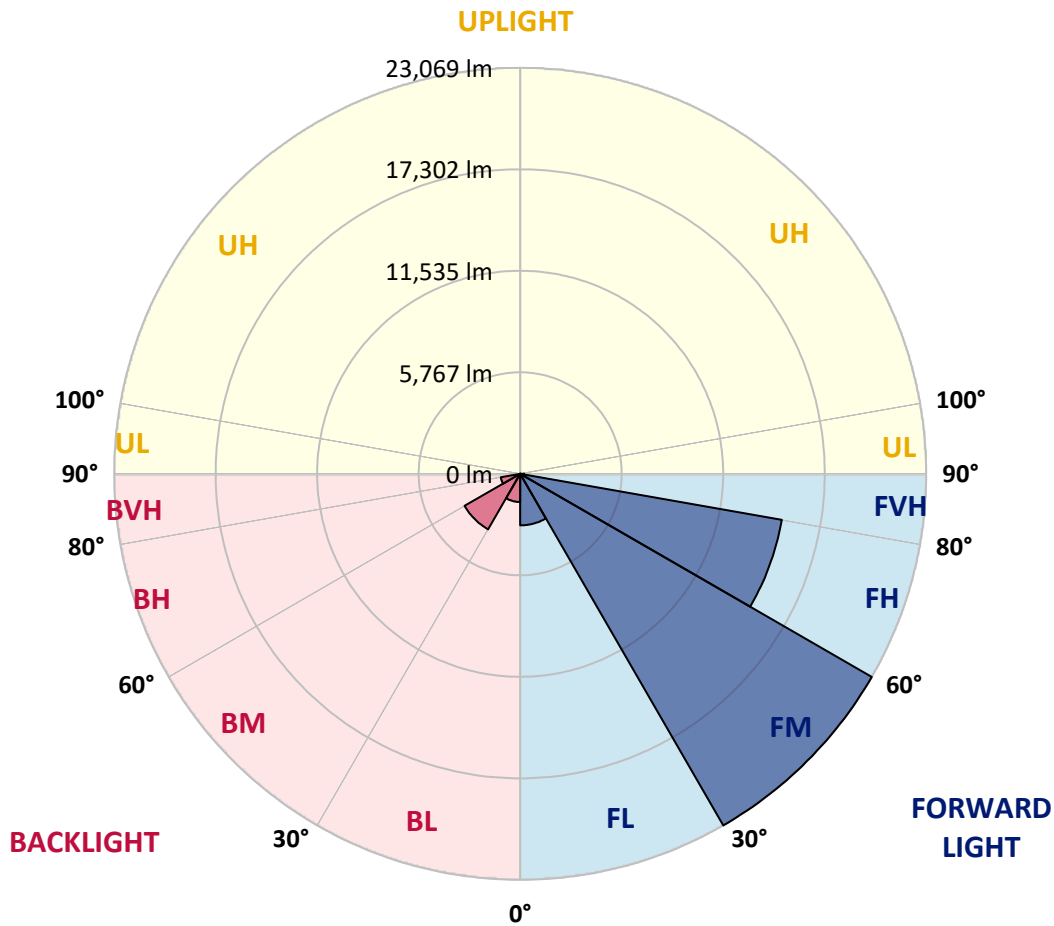
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2928.3	6.1			
FM (30°-60°)	23069.5	48.4			
FH (60°-80°)	15095.7	31.7			G5
FVH (80°-90°)	213.7	0.4			G2/225
BL (0°-30°)	1601.0	3.4	B3/2500		
BM (30°-60°)	3645.6	7.6	B3/5000		
BH (60°-80°)	1119.2	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.0	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°	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1
2.5°	5527.0	5565.3	5555.7	5546.1	5542.9	5549.3	5552.5	5549.3	5549.3	5549.3	5552.5
5°	5421.5	5453.4	5453.4	5475.8	5507.8	5546.1	5574.9	5581.3	5587.7	5597.3	5594.1
7.5°	5220.1	5245.7	5264.8	5338.4	5418.3	5520.6	5606.9	5651.6	5658.0	5693.2	5706.0
10°	5082.6	5114.6	5146.6	5223.3	5338.4	5491.8	5638.8	5747.5	5763.5	5846.6	5885.0
12.5°	5076.2	5108.2	5149.8	5232.9	5367.1	5530.2	5709.2	5865.8	5894.6	6016.0	6096.0
15°	5143.4	5181.7	5220.1	5322.4	5466.2	5664.4	5856.2	6051.2	6080.0	6252.6	6338.9
17.5°	5280.8	5332.0	5360.7	5463.0	5616.5	5837.0	6089.6	6313.3	6338.9	6540.3	6649.0
20°	5552.5	5613.3	5622.9	5706.0	5856.2	6092.8	6393.2	6671.4	6703.3	6933.5	7055.0
22.5°	6115.1	6201.5	6124.7	6166.3	6300.5	6537.1	6863.2	7214.8	7259.5	7521.7	7630.3
25°	7106.1	7227.6	7029.4	6959.1	7016.6	7262.7	7671.9	8116.2	8167.4	8378.4	8432.7
27.5°	9052.8	8896.2	8595.7	8301.6	8129.0	8269.7	8730.0	9279.8	9343.7	9548.3	9484.4
30°	11191.4	11053.9	10648.0	9995.8	9586.7	9564.3	9989.5	10603.2	10676.7	10871.7	10676.7
32.5°	13333.1	13202.1	12760.9	11958.6	11248.9	10897.3	11191.4	11872.3	11910.6	12035.3	11747.6
35°	15439.7	15305.4	14864.3	14042.8	13170.1	12370.9	12313.4	13080.6	13093.4	13224.4	12796.1
37.5°	17559.1	17447.2	16977.3	16171.7	15311.8	14209.0	13675.2	14225.0	14241.0	14368.8	13924.5
40°	19071.1	19119.0	18796.2	18172.8	17434.4	16229.3	15203.1	15442.9	15347.0	15561.2	15295.9
42.5°	20368.9	20464.8	20183.5	19870.2	19441.9	18380.6	17095.6	17054.0	16900.6	17015.6	16740.7
45°	21490.9	21570.8	21318.3	21244.8	21235.2	20490.4	19163.8	18914.4	18700.3	18677.9	18348.6
47.5°	21903.3	22056.7	22165.4	22411.5	22891.0	22577.8	21302.3	20915.5	20675.8	20500.0	19978.9
50°	22059.9	22222.9	22593.7	23309.8	24444.6	24578.8	23431.3	22996.5	22702.4	22382.8	21615.6
52.5°	21848.9	22139.8	22638.5	23843.6	25489.9	26183.6	25473.9	25093.5	24757.9	24236.8	23098.8
55°	20605.4	20896.3	21916.1	23837.2	26010.9	27308.8	27404.7	27235.2	26858.0	26036.5	24297.5
57.5°	17984.2	18415.8	20030.1	23025.3	26001.3	28277.3	29297.1	29418.5	28996.6	27820.2	25240.6
60°	14352.8	14937.8	16906.9	21225.6	25199.0	28801.6	30956.1	31563.5	31115.9	29578.4	26004.5
62.5°	10015.0	10692.7	12556.3	18406.2	23364.1	28424.4	32167.6	33289.7	32950.8	31151.1	26298.6
65°	6108.8	6326.1	7828.5	14483.9	20244.2	26845.3	32541.6	34223.1	34111.2	32113.3	25863.9
67.5°	4069.3	4251.5	4683.1	9931.9	15714.6	23690.2	31646.6	34060.0	34092.0	31956.7	24272.0
70°	2451.8	2608.4	2889.7	5776.3	10184.4	18751.4	28875.1	31982.2	32167.6	29862.9	21254.4
72.5°	1010.1	1115.6	1371.4	2618.0	5274.4	11901.0	22993.3	27459.0	27890.6	25109.5	16312.4
75°	572.2	626.5	805.5	1313.8	2288.8	5546.1	13927.7	19493.0	20129.1	17306.5	9813.6
77.5°	380.4	406.0	521.0	850.3	1288.2	1892.4	5952.1	10155.7	11370.4	9452.4	4248.3
80°	255.7	278.1	358.0	569.0	837.5	811.9	1895.6	3762.4	4628.7	3247.8	1035.7
82.5°	172.6	175.8	255.7	374.0	530.6	393.2	559.4	1170.0	1470.4	939.8	393.2
85°	99.1	95.9	188.6	217.4	236.6	163.0	169.4	351.6	460.3	396.4	223.8
87.5°	12.8	19.2	73.5	57.5	32.0	35.2	35.2	60.7	89.5	95.9	47.9
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°	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1	5546.1
2.5°	5552.5	5549.3	5539.8	5530.2	5507.8	5495.0	5501.4	5495.0	5491.8	5495.0	5507.8
5°	5594.1	5584.5	5558.9	5527.0	5482.2	5427.9	5392.7	5341.6	5293.6	5264.8	5271.2
7.5°	5706.0	5696.4	5661.2	5571.7	5427.9	5200.9	4993.1	4810.9	4673.5	4593.6	4596.7
10°	5885.0	5869.0	5814.7	5616.5	5239.3	4743.8	4331.4	3989.4	3765.6	3660.1	3650.5
12.5°	6096.0	6076.8	5980.9	5574.9	4881.2	4107.7	3538.7	3158.3	2950.5	2857.8	2848.2
15°	6345.3	6319.7	6131.1	5376.7	4360.2	3404.4	2883.4	2598.9	2464.6	2381.5	2384.7
17.5°	6655.4	6610.6	6243.0	5079.4	3794.4	2867.4	2480.6	2266.4	2148.1	2068.2	2061.8
20°	7058.1	6984.6	6332.5	4724.6	3273.3	2528.5	2208.9	2029.9	1940.4	1870.0	1857.2
22.5°	7620.8	7515.3	6441.2	4341.0	2905.7	2295.2	2007.5	1876.4	1802.9	1723.0	1710.2
25°	8317.6	8192.9	6575.5	3986.2	2653.2	2093.8	1860.4	1751.8	1665.4	1572.7	1563.1
27.5°	9292.6	9068.8	6735.3	3695.3	2435.8	1921.2	1726.2	1604.7	1505.6	1428.9	1412.9
30°	10379.4	10011.8	6875.9	3519.5	2237.6	1761.3	1550.4	1428.9	1336.2	1281.8	1272.3
32.5°	11408.8	10910.1	6968.6	3442.8	2058.6	1579.1	1358.6	1227.5	1157.2	1141.2	1150.8
35°	12380.5	11722.0	6959.1	3369.2	1898.8	1396.9	1170.0	1035.7	981.4	991.0	991.0
37.5°	13499.3	12588.3	6891.9	3254.2	1767.7	1230.7	1006.9	888.7	840.7	843.9	856.7
40°	14800.4	13588.9	6850.4	3036.8	1623.9	1077.3	872.7	776.8	741.6	728.8	725.6
42.5°	16187.7	14557.4	6856.8	2790.7	1444.9	939.8	780.0	700.1	668.1	658.5	655.3
45°	17581.4	15481.3	6866.4	2534.9	1256.3	834.3	712.8	645.7	626.5	613.8	613.8
47.5°	18892.1	16267.6	6687.3	2260.0	1070.9	754.4	658.5	613.8	597.8	581.8	581.8
50°	20113.2	16791.9	6255.8	1940.4	923.8	690.5	616.9	585.0	569.0	553.0	553.0
52.5°	21062.6	16875.0	5542.9	1611.1	821.5	642.5	591.4	562.6	543.4	527.4	524.2
55°	21484.5	16353.9	4529.6	1304.2	741.6	601.0	565.8	537.0	514.7	498.7	495.5
57.5°	21375.8	15257.5	3532.3	1048.5	664.9	559.4	533.8	514.7	489.1	463.5	460.3
60°	20842.0	13790.2	2662.8	872.7	594.6	514.7	498.7	482.7	447.5	409.2	402.8
62.5°	19918.2	11945.8	1898.8	722.4	517.9	463.5	457.1	444.3	393.2	322.9	316.5
65°	18505.3	9705.0	1278.6	601.0	444.3	406.0	409.2	386.8	319.7	239.7	233.4
67.5°	16440.2	7096.5	818.3	492.3	370.8	338.8	342.0	329.3	271.7	204.6	195.0
70°	13809.4	4699.0	533.8	374.0	297.3	262.1	281.3	284.5	230.2	166.2	159.8
72.5°	10123.7	2774.7	374.0	278.1	217.4	182.2	230.2	236.6	185.4	124.7	118.3
75°	5769.9	1317.0	281.3	201.4	134.3	127.9	179.0	179.0	127.9	83.1	76.7
77.5°	2423.0	549.8	198.2	131.1	76.7	73.5	121.5	111.9	63.9	38.4	38.4
80°	700.1	246.1	105.5	63.9	32.0	28.8	47.9	35.2	16.0	6.4	6.4
82.5°	274.9	108.7	41.6	25.6	12.8	12.8	6.4	0.0	0.0	0.0	0.0
85°	163.0	44.8	19.2	9.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.6	9.6	6.4	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)