

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: P885308

Luminaire Tested: **NAV-SB6C-740-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885308
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-SB6C-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 38435 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

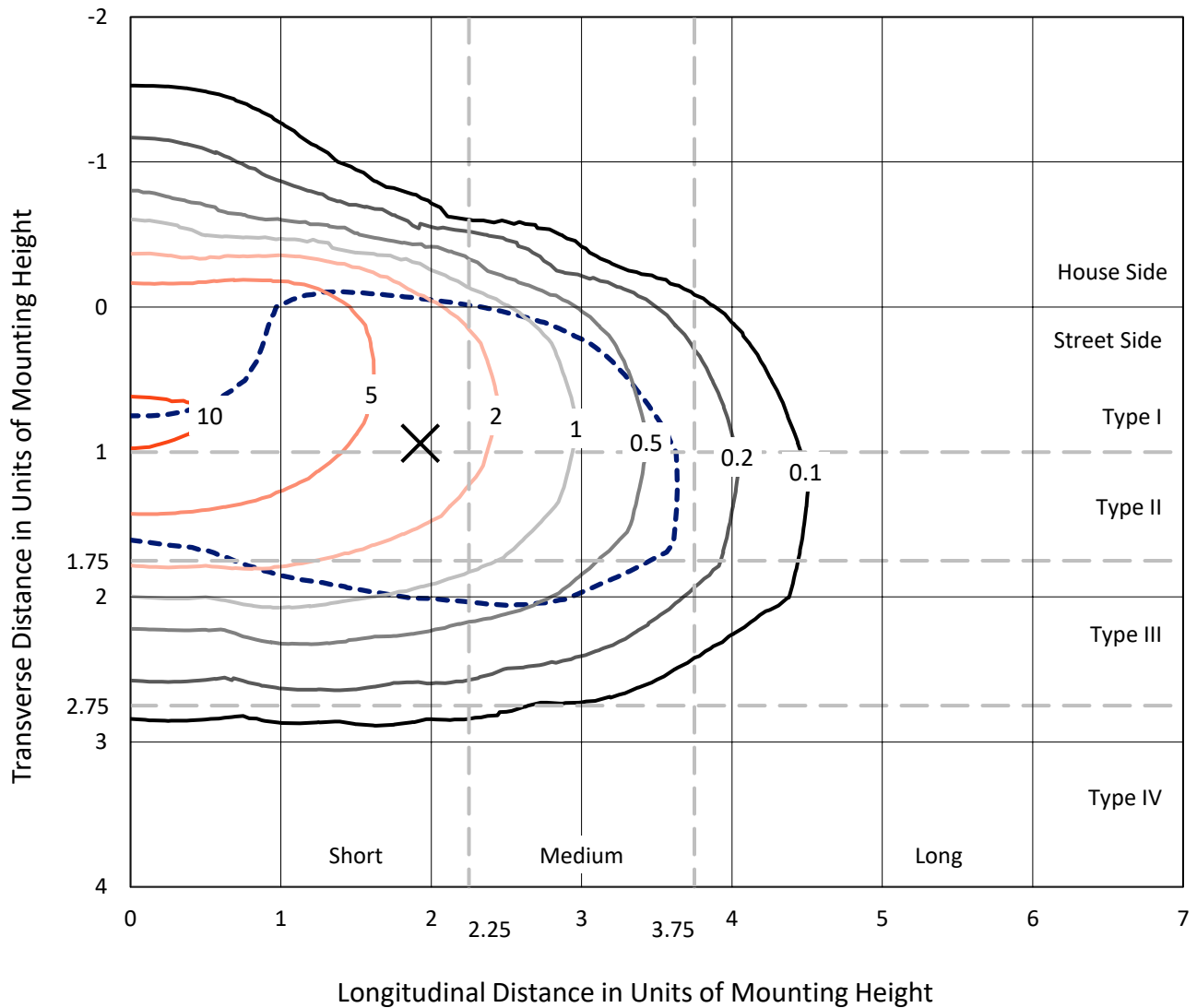
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

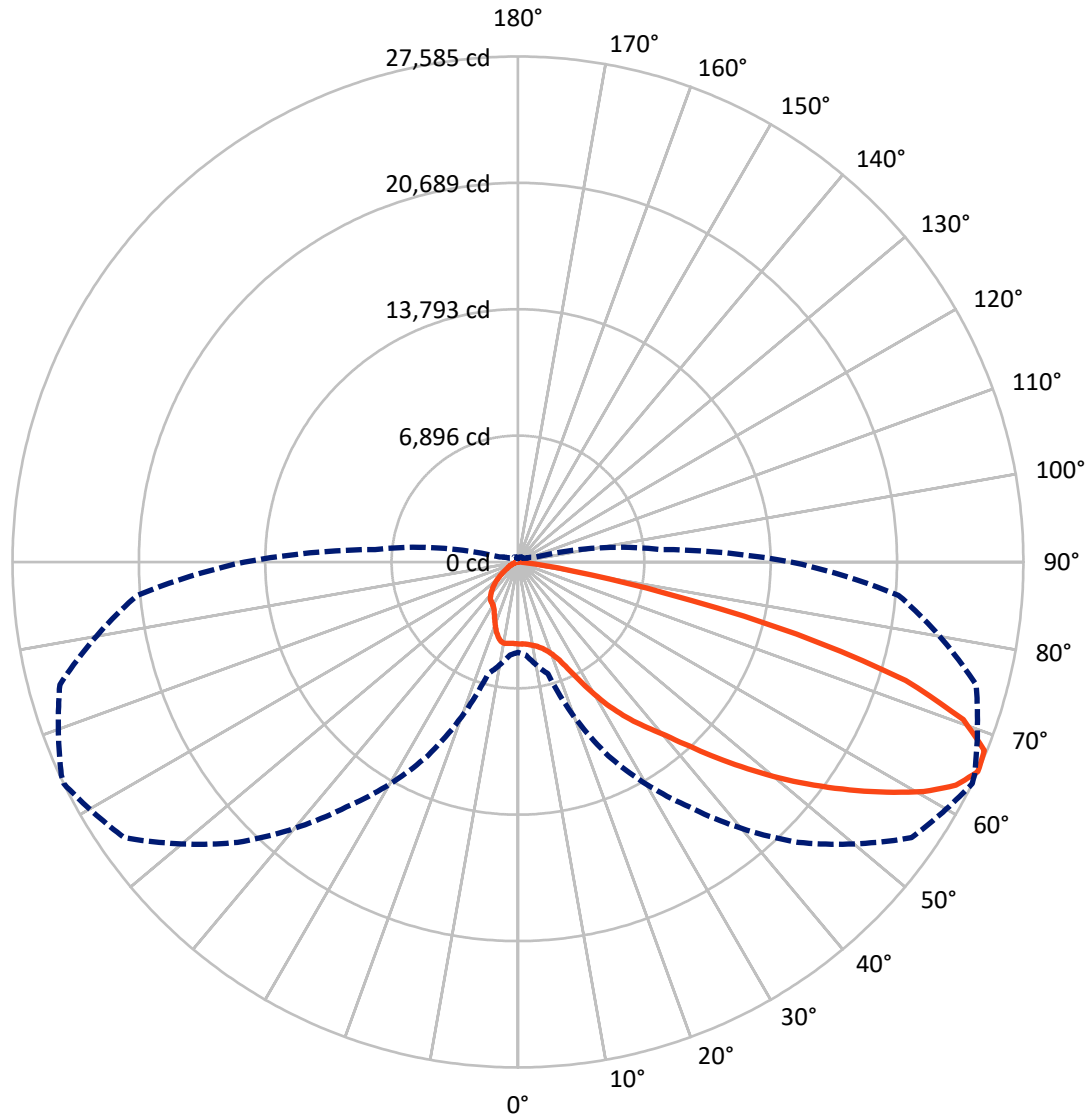
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	5139.9	0.0	5139.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	33295.1	0.0	33295.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	38435.0	0.0	38435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	1.1
10°-20°	1118.7	2.9
20°-30°	2119.7	5.5
30°-40°	4289.4	11.2
40°-50°	7307.0	19.0
50°-60°	9936.9	25.9
60°-70°	9331.3	24.3
70°-80°	3738.5	9.7
80°-90°	181.1	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°	38435.0	100.0
0°-180°	38435.0	100.0

Coefficient of Utilization



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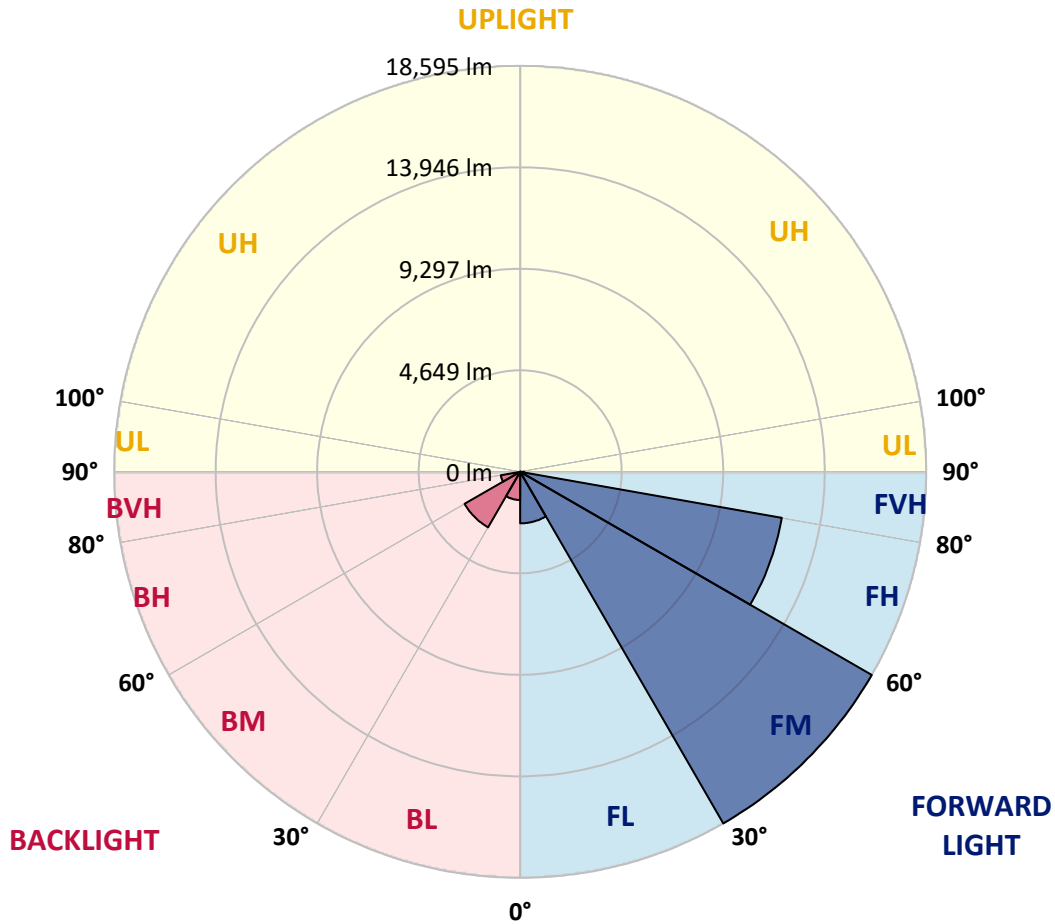
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.4	6.1			
FM (30°-60°)	18594.8	48.4			
FH (60°-80°)	12167.6	31.7			G5
FVH (80°-90°)	172.3	0.4			G2/225
BL (0°-30°)	1290.5	3.4	B3/2500		
BM (30°-60°)	2938.5	7.6	B3/5000		
BH (60°-80°)	902.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
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°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
2.5°	4454.9	4485.8	4478.1	4470.4	4467.8	4473.0	4475.5	4473.0	4473.0	4473.0	4475.5
5°	4369.9	4395.7	4395.7	4413.7	4439.5	4470.4	4493.6	4498.7	4503.9	4511.6	4509.0
7.5°	4207.6	4228.2	4243.6	4302.9	4367.3	4449.8	4519.3	4555.4	4560.6	4588.9	4599.2
10°	4096.8	4122.5	4148.3	4210.2	4302.9	4426.6	4545.1	4632.7	4645.6	4712.6	4743.5
12.5°	4091.6	4117.4	4150.9	4217.9	4326.1	4457.5	4601.8	4728.0	4751.2	4849.1	4913.6
15°	4145.7	4176.7	4207.6	4290.0	4406.0	4565.7	4720.3	4877.5	4900.7	5039.8	5109.4
17.5°	4256.5	4297.8	4320.9	4403.4	4527.1	4704.9	4908.4	5088.8	5109.4	5271.7	5359.3
20°	4475.5	4524.5	4532.2	4599.2	4720.3	4911.0	5153.2	5377.4	5403.1	5588.6	5686.5
22.5°	4929.0	4998.6	4936.8	4970.2	5078.5	5269.1	5531.9	5815.4	5851.4	6062.7	6150.3
25°	5727.8	5825.7	5665.9	5609.2	5655.6	5854.0	6183.8	6542.0	6583.2	6753.3	6797.1
27.5°	7296.9	7170.7	6928.5	6691.4	6552.3	6665.6	7036.7	7479.9	7531.4	7696.3	7644.8
30°	9020.7	8909.9	8582.6	8057.0	7727.2	7709.2	8051.9	8546.6	8605.8	8763.0	8605.8
32.5°	10747.0	10641.3	10285.8	9639.0	9067.0	8783.6	9020.7	9569.5	9600.4	9700.9	9469.0
35°	12444.9	12336.7	11981.2	11319.0	10615.6	9971.4	9925.0	10543.4	10553.7	10659.4	10314.1
37.5°	14153.2	14063.0	13684.3	13035.0	12341.9	11453.0	11022.7	11465.8	11478.7	11581.8	11223.6
40°	15372.0	15410.6	15150.4	14647.9	14052.7	13081.4	12254.3	12447.5	12370.2	12542.9	12329.0
42.5°	16418.1	16495.4	16268.6	16016.1	15670.8	14815.4	13779.6	13746.1	13622.4	13715.2	13493.6
45°	17322.4	17386.9	17183.3	17124.0	17116.3	16516.0	15446.7	15245.7	15073.1	15055.0	14789.6
47.5°	17654.8	17778.5	17866.1	18064.5	18451.0	18198.5	17170.4	16858.7	16665.4	16523.7	16103.7
50°	17781.1	17912.5	18211.4	18788.5	19703.2	19811.4	18886.4	18536.0	18299.0	18041.3	17422.9
52.5°	17611.0	17845.5	18247.4	19218.8	20545.8	21104.9	20532.9	20226.3	19955.7	19535.7	18618.5
55°	16608.7	16843.2	17665.1	19213.7	20965.7	22011.8	22089.1	21952.6	21648.5	20986.4	19584.7
57.5°	14495.9	14843.8	16144.9	18559.2	20958.0	22792.5	23614.5	23712.4	23372.3	22424.1	20344.8
60°	11568.9	12040.4	13627.6	17108.6	20311.3	23215.1	24951.7	25441.3	25080.6	23841.2	20960.6
62.5°	8072.5	8618.7	10120.9	14836.0	18832.3	22911.1	25928.3	26832.6	26559.5	25108.9	21197.6
65°	4923.9	5099.1	6310.1	11674.5	16317.6	21638.2	26229.7	27585.0	27494.8	25884.5	20847.2
67.5°	3280.0	3426.9	3774.7	8005.5	12666.5	19095.1	25508.3	27453.6	27479.4	25758.2	19564.1
70°	1976.2	2102.5	2329.2	4655.9	8209.0	15114.3	23274.4	25778.8	25928.3	24070.5	17131.8
72.5°	814.2	899.2	1105.4	2110.2	4251.4	9592.7	18533.4	22132.9	22480.8	20239.1	13148.4
75°	461.2	505.0	649.3	1059.0	1844.8	4470.4	11226.2	15712.1	16224.8	13949.7	7910.1
77.5°	306.6	327.2	420.0	685.4	1038.4	1525.3	4797.6	8185.8	9164.9	7619.0	3424.3
80°	206.1	224.2	288.6	458.6	675.1	654.5	1527.9	3032.7	3730.9	2617.8	834.8
82.5°	139.1	141.7	206.1	301.5	427.7	316.9	450.9	943.0	1185.2	757.5	316.9
85°	79.9	77.3	152.0	175.2	190.7	131.4	136.6	283.4	371.0	319.5	180.4
87.5°	10.3	15.5	59.3	46.4	25.8	28.3	28.3	49.0	72.1	77.3	38.6
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°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
2.5°	4475.5	4473.0	4465.2	4457.5	4439.5	4429.2	4434.3	4429.2	4426.6	4429.2	4439.5
5°	4509.0	4501.3	4480.7	4454.9	4418.9	4375.1	4346.7	4305.5	4266.8	4243.6	4248.8
7.5°	4599.2	4591.5	4563.1	4491.0	4375.1	4192.1	4024.6	3877.8	3767.0	3702.6	3705.1
10°	4743.5	4730.6	4686.8	4527.1	4223.0	3823.7	3491.3	3215.6	3035.2	2950.2	2942.5
12.5°	4913.6	4898.1	4820.8	4493.6	3934.5	3310.9	2852.3	2545.7	2378.2	2303.5	2295.7
15°	5114.5	5093.9	4941.9	4333.8	3514.5	2744.1	2324.1	2094.8	1986.6	1919.6	1922.1
17.5°	5364.5	5328.4	5032.1	4094.2	3058.4	2311.2	1999.4	1826.8	1731.5	1667.1	1661.9
20°	5689.1	5629.9	5104.2	3808.2	2638.4	2038.1	1780.4	1636.1	1564.0	1507.3	1497.0
22.5°	6142.6	6057.6	5191.8	3499.0	2342.1	1850.0	1618.1	1512.5	1453.2	1388.8	1378.5
25°	6704.3	6603.8	5300.1	3213.0	2138.6	1687.7	1499.6	1412.0	1342.4	1267.7	1260.0
27.5°	7490.2	7309.8	5428.9	2978.5	1963.4	1548.5	1391.4	1293.4	1213.6	1151.7	1138.9
30°	8366.2	8069.9	5542.3	2836.8	1803.6	1419.7	1249.6	1151.7	1077.0	1033.2	1025.5
32.5°	9195.9	8793.9	5617.0	2775.0	1659.3	1272.8	1095.1	989.4	932.7	919.8	927.6
35°	9979.1	9448.4	5609.2	2715.7	1530.5	1126.0	943.0	834.8	791.0	798.7	798.7
37.5°	10881.0	10146.6	5555.1	2623.0	1424.9	992.0	811.6	716.3	677.6	680.2	690.5
40°	11929.6	10953.1	5521.6	2447.8	1308.9	868.3	703.4	626.1	597.8	587.5	584.9
42.5°	13047.9	11733.8	5526.8	2249.4	1164.6	757.5	628.7	564.3	538.5	530.8	528.2
45°	14171.3	12478.4	5534.5	2043.2	1012.6	672.5	574.6	520.5	505.0	494.7	494.7
47.5°	15227.7	13112.3	5390.2	1821.7	863.2	608.1	530.8	494.7	481.8	468.9	468.9
50°	16211.9	13534.8	5042.4	1564.0	744.6	556.5	497.3	471.5	458.6	445.8	445.8
52.5°	16977.2	13601.8	4467.8	1298.6	662.2	517.9	476.7	453.5	438.0	425.1	422.6
55°	17317.3	13181.9	3651.0	1051.3	597.8	484.4	456.1	432.9	414.8	401.9	399.4
57.5°	17229.7	12298.1	2847.1	845.1	535.9	450.9	430.3	414.8	394.2	373.6	371.0
60°	16799.4	11115.4	2146.3	703.4	479.2	414.8	401.9	389.1	360.7	329.8	324.7
62.5°	16054.8	9628.7	1530.5	582.3	417.4	373.6	368.5	358.1	316.9	260.2	255.1
65°	14915.9	7822.5	1030.6	484.4	358.1	327.2	329.8	311.8	257.7	193.2	188.1
67.5°	13251.4	5720.0	659.6	396.8	298.9	273.1	275.7	265.4	219.0	164.9	157.2
70°	11130.9	3787.6	430.3	301.5	239.6	211.3	226.7	229.3	185.5	134.0	128.8
72.5°	8160.1	2236.5	301.5	224.2	175.2	146.9	185.5	190.7	149.4	100.5	95.3
75°	4650.8	1061.6	226.7	162.3	108.2	103.1	144.3	144.3	103.1	67.0	61.8
77.5°	1953.1	443.2	159.7	105.6	61.8	59.3	97.9	90.2	51.5	30.9	30.9
80°	564.3	198.4	85.0	51.5	25.8	23.2	38.6	28.3	12.9	5.2	5.2
82.5°	221.6	87.6	33.5	20.6	10.3	10.3	5.2	0.0	0.0	0.0	0.0
85°	131.4	36.1	15.5	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.5	7.7	5.2	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)