

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: P970830

Luminaire Tested: **NAV-SB6C-727-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-727-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

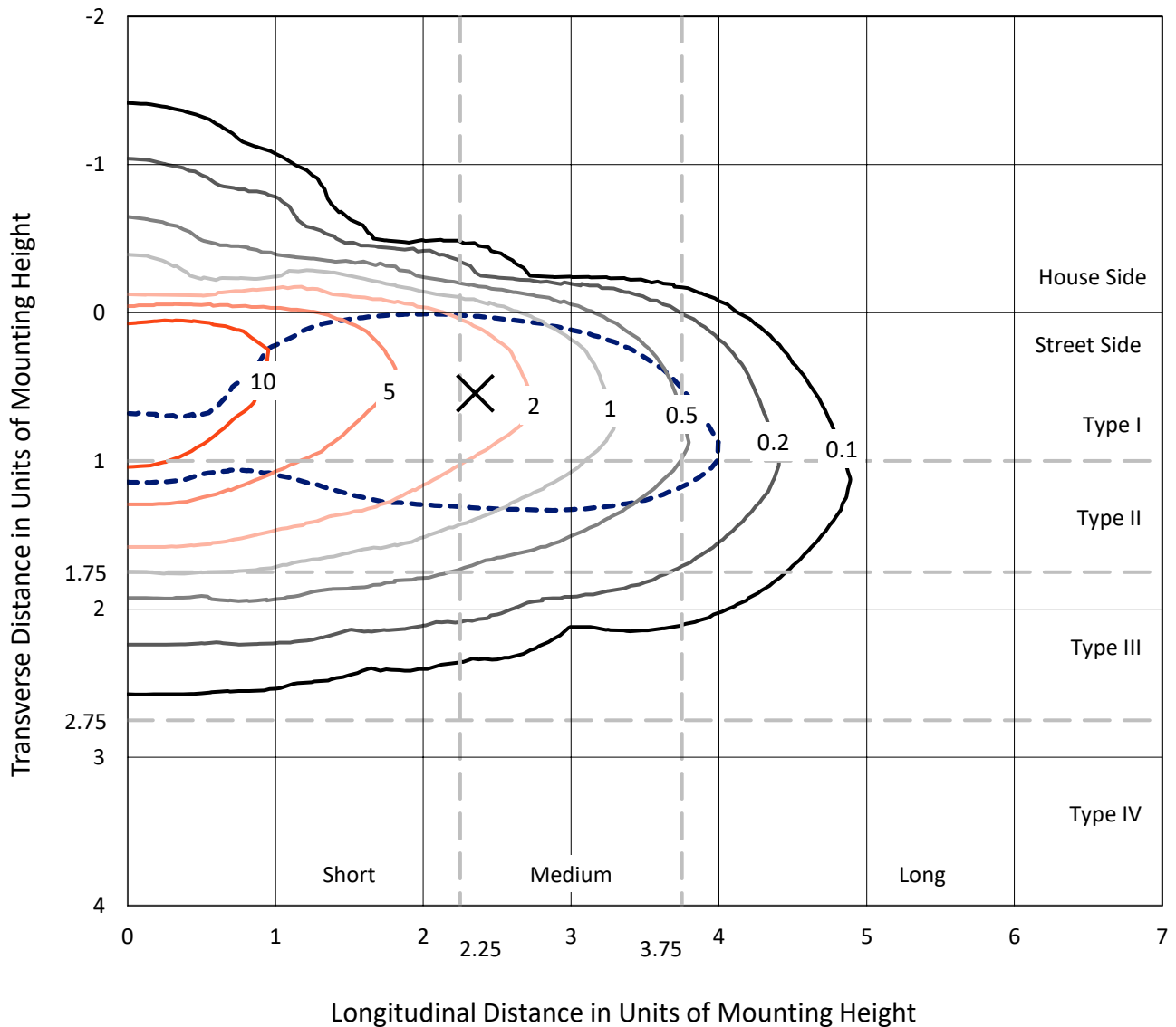
Lumens per Lamp: N/A  
Luminaire Lumens: 36556.6 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
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

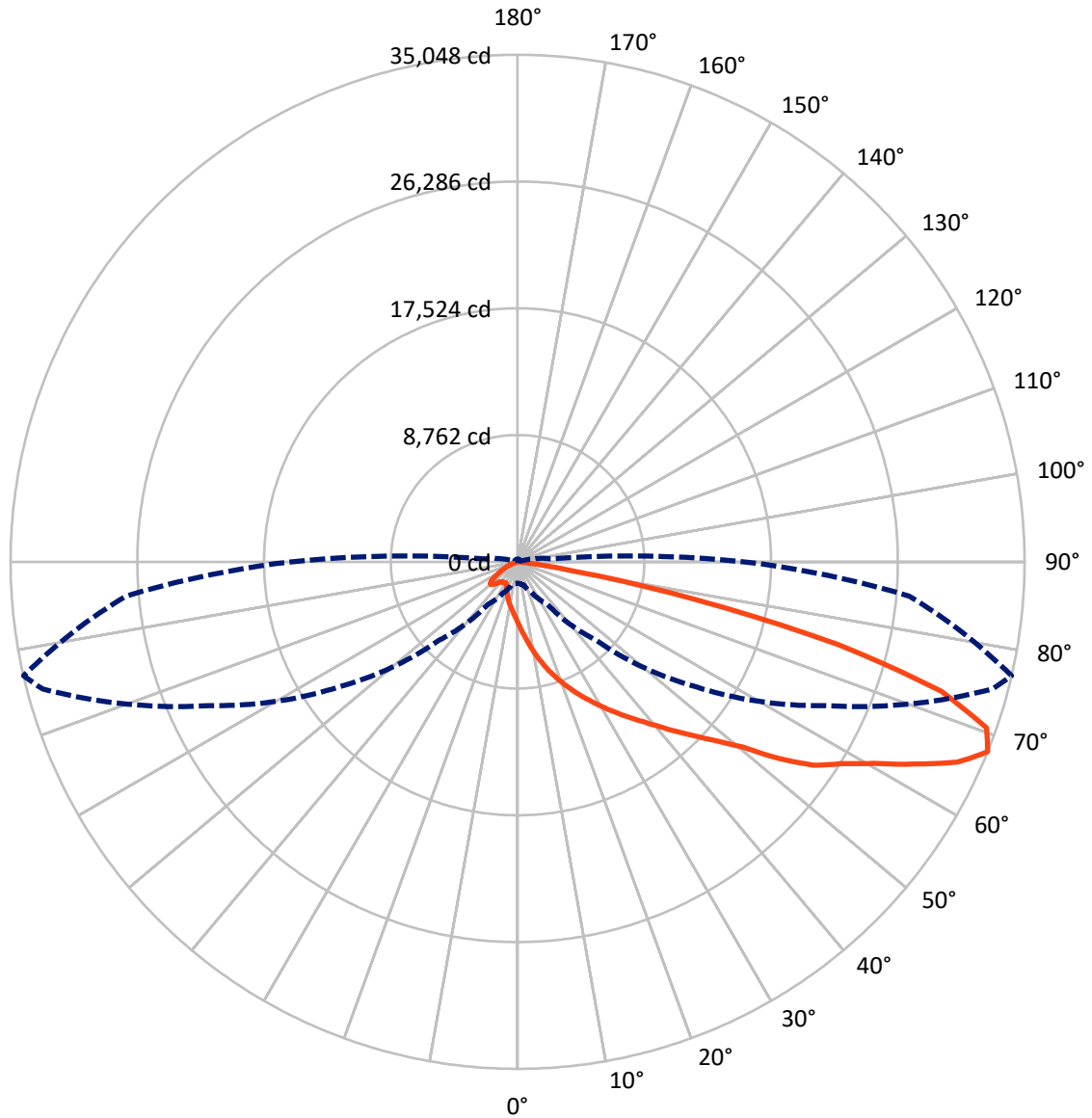
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2689.5	0.0	2689.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	33867.1	0.0	33867.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	36556.6	0.0	36556.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.3	1.2
10°-20°	1506.7	4.1
20°-30°	2907.6	8.0
30°-40°	5047.7	13.8
40°-50°	7329.0	20.0
50°-60°	8416.4	23.0
60°-70°	7307.0	20.0
70°-80°	3441.7	9.4
80°-90°	170.2	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°	36556.6	100.0
0°-180°	36556.6	100.0

**Coefficient of Utilization**

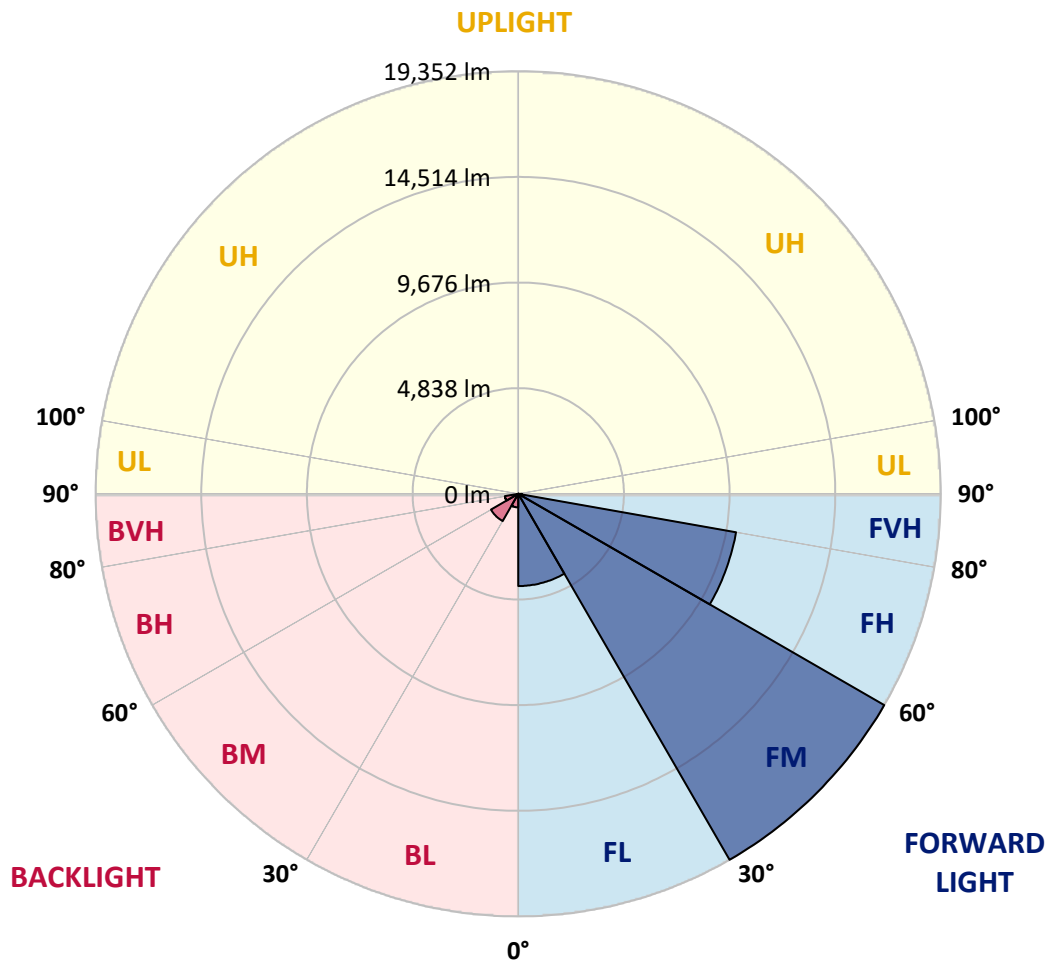


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4221.9	11.5			
FM (30°-60°)	19352.1	52.9			
FH (60°-80°)	10126.1	27.7			G4/12000
FVH (80°-90°)	167.1	0.5			G2/225
BL (0°-30°)	622.7	1.7	B2/1000		
BM (30°-60°)	1441.1	3.9	B2/2500		
BH (60°-80°)	622.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.1	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5
2.5°	5836.3	5872.6	5820.5	5720.5	5570.8	5473.1	5234.8	5010.0	4760.3	4680.9	4431.2
5°	7114.4	7146.2	7087.2	6978.2	6778.4	6587.8	6274.4	5804.6	5316.5	5159.8	4717.2
7.5°	8061.0	8079.2	8056.5	7956.6	7765.9	7550.3	7200.6	6644.5	5920.3	5747.8	5069.0
10°	8742.0	8801.1	8794.2	8755.7	8628.6	8453.7	8081.4	7448.1	6596.8	6374.4	5466.3
12.5°	9193.7	9259.6	9298.2	9384.5	9377.6	9266.4	8939.5	8269.9	7271.0	7010.0	5913.5
15°	9325.4	9395.8	9543.4	9743.1	9920.2	9976.9	9747.6	9075.8	8013.3	7679.6	6372.1
17.5°	9250.5	9359.5	9536.6	9852.1	10240.3	10496.8	10471.8	9854.3	8687.6	8306.2	6821.6
20°	9416.3	9520.7	9659.2	9924.8	10376.5	10841.8	11028.0	10598.9	9357.2	8957.7	7293.7
22.5°	10333.3	10315.2	10328.8	10372.0	10642.1	11102.9	11486.6	11275.4	10020.1	9611.4	7793.2
25°	11786.2	11704.5	11566.0	11332.2	11264.0	11486.6	11886.1	11874.7	10719.2	10281.2	8303.9
27.5°	13452.4	13438.8	13114.2	12551.2	12233.4	12147.2	12337.8	12458.2	11411.6	10944.0	8816.9
30°	15048.2	15084.6	14646.4	14020.0	13436.5	13098.3	12925.8	13012.1	12115.4	11659.1	9345.8
32.5°	16437.5	16476.2	15999.4	15266.2	14544.3	14135.7	13772.5	13559.1	12882.6	12385.5	9927.0
35°	17611.1	17649.8	17102.7	16292.3	15522.7	15152.7	14741.9	14158.4	13654.4	13191.3	10574.0
37.5°	18659.9	18648.6	17915.4	17098.1	16342.2	16049.3	15833.7	14896.2	14449.0	14001.8	11291.3
40°	19279.7	19327.4	18700.8	17799.6	17066.4	16852.9	16839.3	15811.0	15366.1	14932.5	12076.8
42.5°	19461.3	19545.3	19091.2	18351.2	17686.1	17454.5	17810.9	16800.8	16433.0	16010.8	12964.4
45°	19134.4	19216.1	19009.5	18496.5	18108.4	17958.5	18646.3	17826.8	17572.6	17154.9	13965.4
47.5°	18180.9	18283.1	18333.0	18224.1	18219.6	18371.7	19395.5	18907.4	18925.6	18498.8	15125.4
50°	16335.4	16507.9	16966.5	17352.4	17949.4	18698.6	20124.1	20078.7	20451.0	20083.3	16637.3
52.5°	12980.3	13225.4	14805.4	15861.0	17202.6	18637.3	20925.5	21958.4	23127.5	22589.5	18768.9
55°	10430.9	10430.9	11715.9	13690.8	15745.2	18233.2	21275.1	23179.7	24950.3	24823.1	20269.5
57.5°	8503.7	8605.8	9425.3	11171.0	13636.3	17270.6	21490.8	23947.0	26419.1	26326.0	21735.9
60°	5248.4	5468.6	7016.7	8739.8	11236.9	15556.7	21354.5	24723.3	28201.0	28276.0	23502.0
62.5°	2955.6	3037.4	3727.4	6288.1	8737.5	13252.6	20312.5	25156.9	30480.2	30798.0	25322.6
65°	2040.8	2081.7	2347.2	3913.6	6056.5	10551.2	18276.4	24886.8	32763.9	33406.3	26866.3
67.5°	1482.4	1502.8	1668.5	2390.4	3593.5	7650.1	15084.6	23524.7	33973.8	35047.6	27161.4
70°	1139.6	1153.2	1273.5	1570.9	2122.5	4721.8	10955.3	20816.5	33097.6	34380.1	25649.5
72.5°	926.2	939.8	1032.9	1162.2	1407.4	2792.2	6640.0	16905.2	29229.4	30614.2	21835.8
75°	780.9	799.1	883.0	967.1	1103.2	1793.3	3114.6	11772.5	21981.0	22889.1	15184.5
77.5°	433.6	399.5	717.3	801.3	930.7	1135.1	1457.3	6928.3	12310.6	12562.6	6737.5
80°	270.1	279.2	569.8	644.7	715.0	572.1	667.4	2667.4	4267.7	4054.4	1305.3
82.5°	15.9	36.3	438.1	465.4	490.4	245.2	251.9	905.8	1028.4	944.3	231.5
85°	0.0	0.0	199.8	161.1	170.3	70.4	72.7	211.2	138.5	149.9	45.4
87.5°	0.0	0.0	0.0	4.5	0.0	6.8	13.6	18.1	6.8	9.1	15.9
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°	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5
2.5°	4272.3	4113.3	3791.0	3475.5	3218.9	2980.6	2810.3	2649.2	2567.4	2562.9	2558.4
5°	4401.7	4067.9	3423.3	2853.5	2394.9	2027.1	1788.8	1618.6	1532.3	1502.8	1498.2
7.5°	4583.3	4081.6	3100.9	2308.7	1768.4	1452.8	1316.6	1262.2	1244.0	1223.5	1219.0
10°	4812.6	4113.3	2812.6	1859.1	1393.8	1234.9	1180.4	1157.7	1144.1	1130.5	1126.0
12.5°	5069.0	4142.8	2526.6	1543.6	1225.8	1144.1	1105.6	1078.3	1060.2	1044.3	1039.7
15°	5318.7	4161.0	2229.2	1323.5	1139.6	1073.8	1032.9	1003.4	978.4	960.2	958.0
17.5°	5566.2	4186.0	1950.0	1191.8	1069.2	1003.4	962.5	926.2	905.8	885.3	883.0
20°	5840.9	4181.5	1686.6	1098.7	998.9	933.0	889.9	855.8	835.4	812.7	810.4
22.5°	6095.2	4158.7	1455.1	1019.3	926.2	862.6	815.0	780.9	760.4	742.3	740.0
25°	6388.0	4140.6	1262.2	946.6	858.1	794.5	742.3	710.5	687.9	672.0	669.6
27.5°	6669.5	4113.3	1121.5	880.8	792.2	730.9	681.0	644.7	624.2	612.9	612.9
30°	6946.4	4106.6	1069.2	817.2	733.2	672.0	622.0	587.9	572.1	567.5	565.3
32.5°	7280.1	4124.7	1091.9	794.5	678.8	617.5	569.8	544.8	528.9	528.9	528.9
35°	7636.6	4120.2	1126.0	815.0	642.5	562.9	526.6	510.8	494.9	494.9	494.9
37.5°	8083.7	4127.0	1153.2	849.0	628.8	517.6	497.1	476.7	467.6	467.6	467.6
40°	8751.1	4351.7	1139.6	878.5	624.2	485.7	445.0	438.1	431.3	431.3	431.3
42.5°	9568.4	4839.7	1157.7	880.8	622.0	463.1	408.6	422.2	406.3	404.1	401.8
45°	10462.8	5373.3	1273.5	833.1	619.7	451.7	390.4	406.3	381.4	381.4	381.4
47.5°	11350.3	5902.2	1391.5	765.1	612.9	449.5	374.5	365.5	358.6	360.9	360.9
50°	12573.9	6333.5	1436.9	672.0	597.1	445.0	345.0	347.3	342.8	347.3	347.3
52.5°	13906.5	6424.3	1382.5	567.5	551.7	431.3	324.6	333.7	331.4	336.0	336.0
55°	14737.2	6326.7	1141.8	472.2	481.2	376.8	304.2	322.4	322.4	322.4	322.4
57.5°	15595.4	5911.3	810.4	383.7	399.5	308.7	286.1	311.0	308.7	306.5	306.5
60°	16212.8	5239.3	533.5	315.5	317.9	254.2	265.6	292.8	290.6	279.2	279.2
62.5°	16673.7	4497.0	342.8	267.8	242.9	229.3	242.9	265.6	256.6	231.5	227.0
65°	16621.4	3468.7	263.3	229.3	199.8	199.8	211.2	231.5	204.3	163.5	158.9
67.5°	15652.2	2347.2	217.9	192.9	168.0	165.7	174.8	192.9	174.8	138.5	134.0
70°	13920.0	1534.5	174.8	149.9	134.0	122.6	140.7	165.7	147.6	111.2	106.7
72.5°	11298.2	935.3	131.7	109.0	97.6	79.4	111.2	136.2	118.1	81.7	77.2
75°	7309.6	476.7	90.8	70.4	52.2	47.7	81.7	102.2	81.7	49.9	43.2
77.5°	2796.7	199.8	49.9	31.8	27.3	22.7	45.4	61.3	34.0	11.4	9.1
80°	538.0	83.9	25.0	15.9	13.6	9.1	6.8	4.5	0.0	0.0	0.0
82.5°	93.1	27.3	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	0.0	0.0	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)