

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: P969761

Luminaire Tested: **NAV-SB6A-727-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-727-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

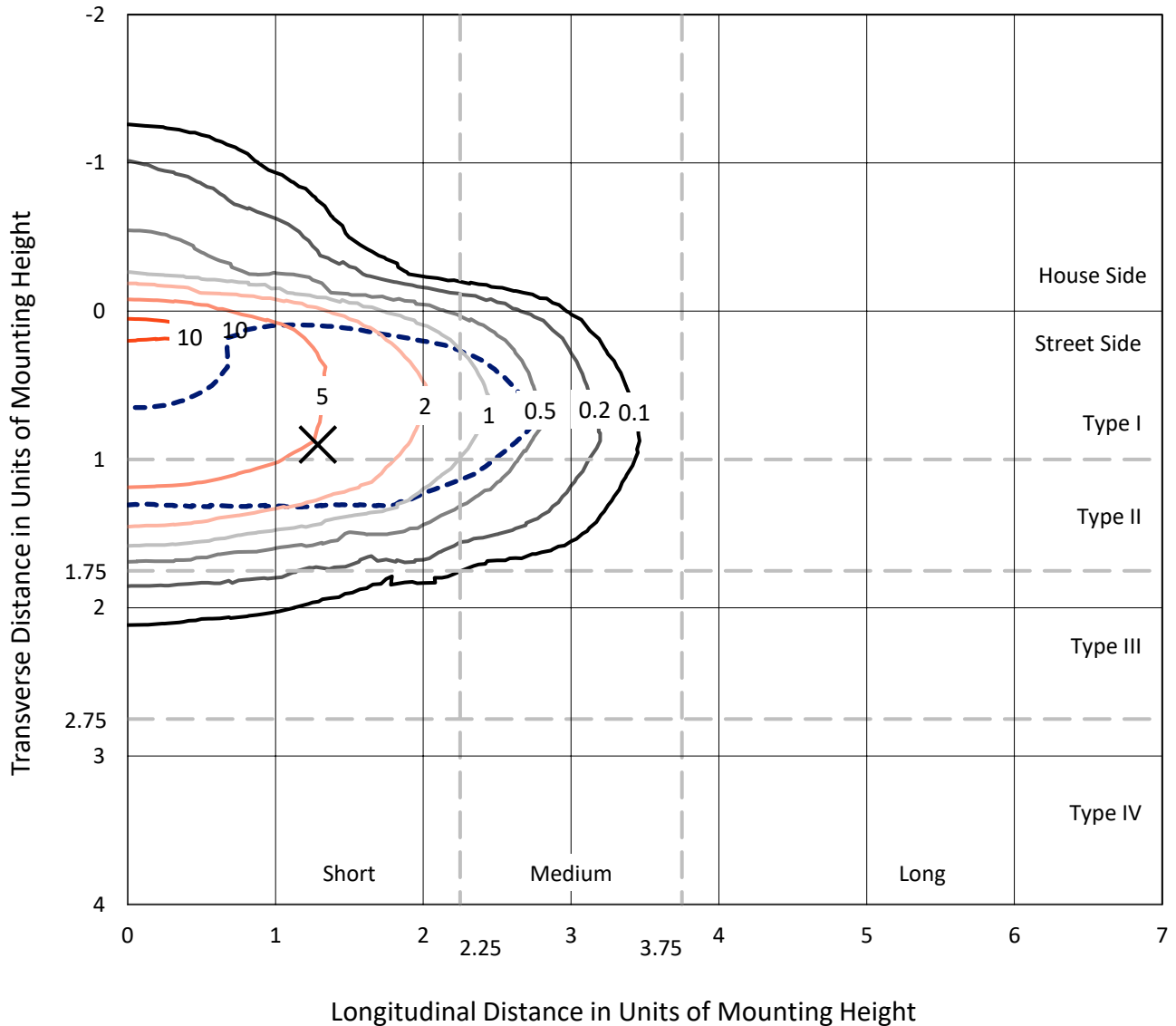
Lumens per Lamp: N/A  
Luminaire Lumens: 22049.8 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P969761  
 CATALOG NUMBER: NAV-SB6A-727-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

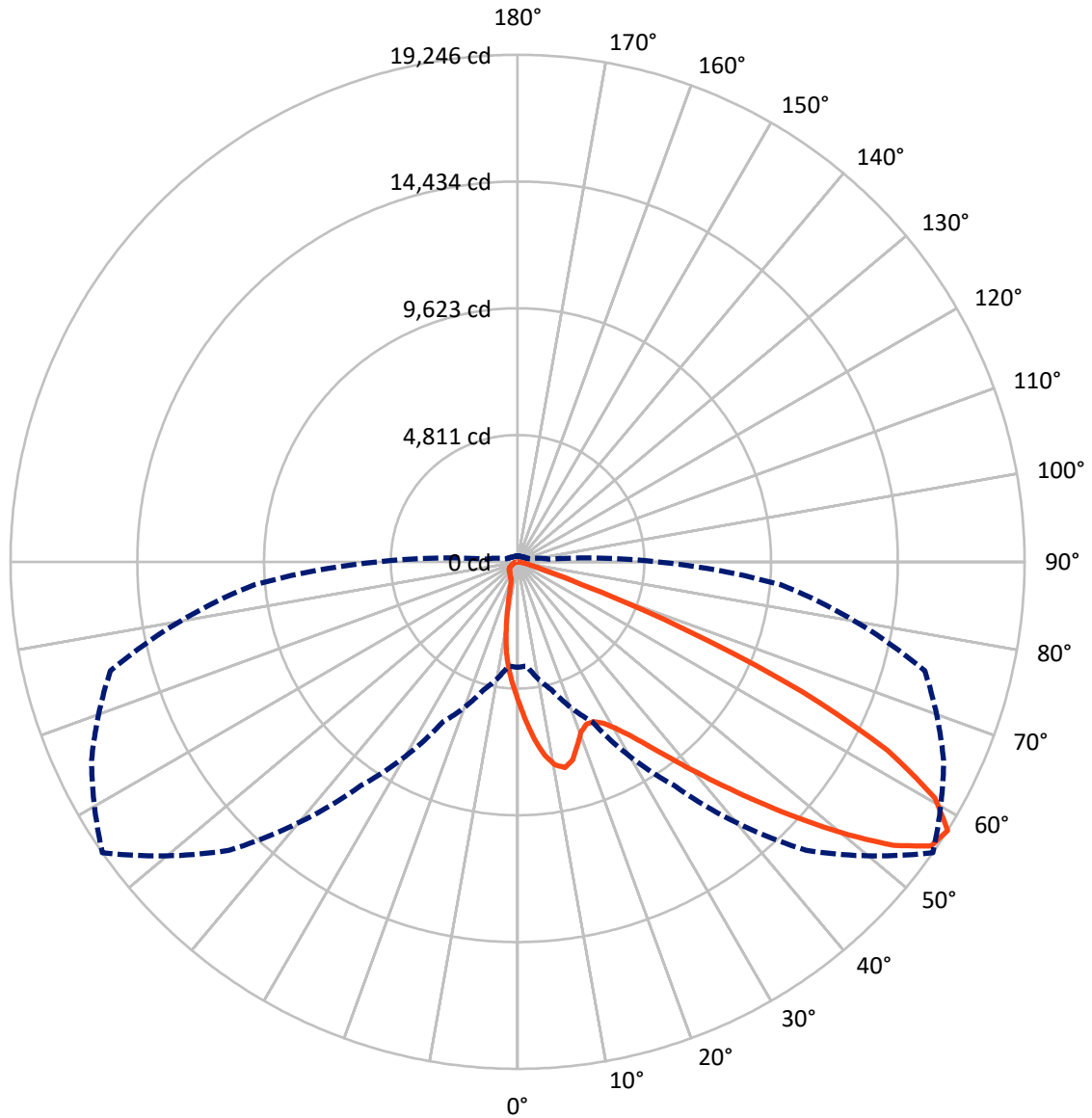
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P969761  
CATALOG NUMBER: NAV-SB6A-727-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P969761  
 CATALOG NUMBER: NAV-SB6A-727-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1722.0	0.0	1722.0
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	20327.8	0.0	20327.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	22049.8	0.0	22049.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.4	2.2
10°-20°	1194.2	5.4
20°-30°	1910.7	8.7
30°-40°	3234.0	14.7
40°-50°	5309.5	24.1
50°-60°	5835.5	26.5
60°-70°	3347.3	15.2
70°-80°	683.9	3.1
80°-90°	40.3	0.2
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°	22049.8	100.0
0°-180°	22049.8	100.0

**Coefficient of Utilization**

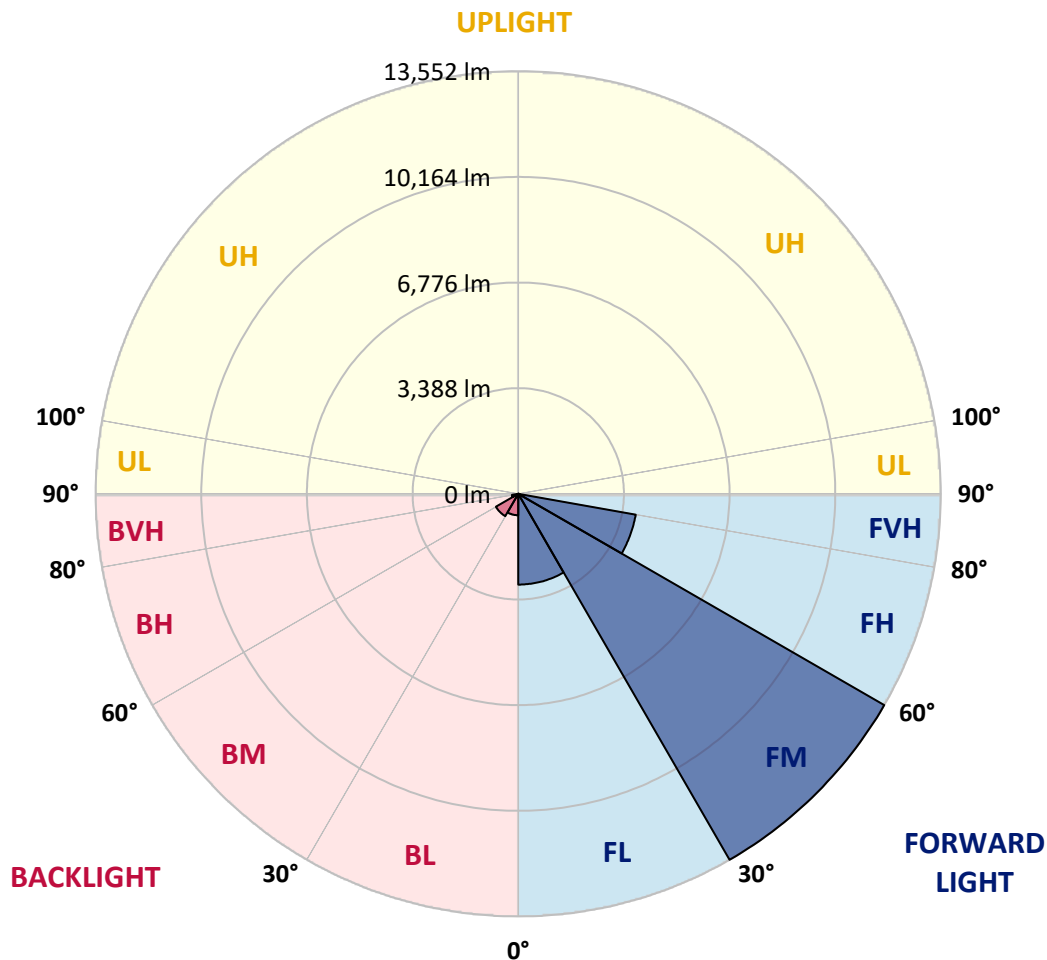


REPORT NUMBER: P969761  
 CATALOG NUMBER: NAV-SB6A-727-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2911.8	13.2			
FM (30°-60°)	13552.0	61.5			
FH (60°-80°)	3826.4	17.4			G2/5000
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	687.5	3.1	B2/1000		
BM (30°-60°)	827.0	3.8	B1/1000		
BH (60°-80°)	204.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	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-G2**  
 Type II Short



REPORT NUMBER: P969761  
 CATALOG NUMBER: NAV-SB6A-727-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5
2.5°	6592.9	6510.0	6497.7	6481.4	6323.6	6205.3	6034.1	5846.4	5635.7	5420.9	5325.7
5°	7616.7	7551.4	7539.2	7463.0	7283.5	7082.3	6777.8	6393.0	6000.0	5537.8	5339.3
7.5°	7815.2	7802.9	7858.7	7856.0	7831.5	7672.4	7415.5	6957.3	6367.2	5681.9	5374.7
10°	6930.0	6961.3	7127.2	7272.7	7665.7	7894.0	7838.3	7460.4	6745.1	5846.4	5414.0
12.5°	6123.8	6087.1	6205.3	6369.9	6826.7	7506.6	8013.7	7880.4	7177.6	6032.7	5472.6
15°	5618.0	5603.1	5669.7	5745.8	6093.9	6779.1	7809.8	8221.7	7593.6	6253.0	5560.9
17.5°	5456.2	5444.0	5464.4	5483.4	5709.1	6239.4	7324.3	8431.1	7991.9	6504.5	5658.8
20°	5588.1	5571.8	5569.0	5554.1	5648.0	6009.6	6885.2	8446.1	8349.5	6732.9	5743.1
22.5°	5972.9	5953.8	5887.2	5827.4	5835.5	6040.8	6689.5	8296.5	8618.7	6946.4	5796.2
25°	6670.4	6639.1	6500.4	6299.2	6171.4	6258.4	6719.3	8099.3	8875.7	7113.6	5770.3
27.5°	7543.3	7502.5	7324.3	7025.2	6732.9	6626.8	6935.5	7963.4	9089.2	7241.4	5714.6
30°	8398.4	8345.4	8170.1	7937.6	7510.6	7176.1	7325.7	8023.2	9343.4	7374.7	5641.1
32.5°	9321.7	9271.3	9038.9	8750.6	8397.1	7947.0	7860.0	8315.5	9654.8	7560.9	5589.4
35°	10489.5	10410.7	10080.4	9687.4	9312.1	8856.7	8583.3	8819.9	10069.5	7845.1	5618.0
37.5°	11819.3	11713.3	11357.0	10814.6	10325.0	9815.2	9464.4	9513.3	10677.2	8225.8	5706.4
40°	13073.0	12976.4	12647.4	12136.1	11521.5	10902.9	10529.0	10420.3	11516.1	8689.4	5861.4
42.5°	13824.8	13737.8	13599.1	13382.9	12864.9	12234.0	11762.2	11526.9	12508.7	9244.2	6050.4
45°	13866.9	13790.8	13977.1	14228.6	14126.7	13706.5	13131.4	12700.4	13505.3	9764.9	6246.1
47.5°	13192.6	13140.9	13706.5	14584.8	15022.6	15199.4	14669.1	13775.8	14327.9	10138.8	6326.4
50°	11354.3	11335.3	12499.2	14111.7	15363.9	16507.3	16291.1	14776.5	14965.5	10331.9	6250.2
52.5°	9845.1	9775.8	10454.3	12597.0	14867.6	17195.3	17876.5	15758.1	15411.5	10368.6	6072.1
55°	7467.1	7405.9	8257.1	10062.6	13267.3	16950.6	19036.3	16771.2	15731.0	10274.8	5752.6
57.5°	4005.5	3967.5	5042.9	6697.6	10371.3	15482.2	19245.6	17842.5	16000.2	10025.9	5305.3
60°	1559.5	1552.7	1955.2	3249.6	6303.2	12595.7	18189.2	18485.6	16168.8	9720.1	4931.4
62.5°	943.6	964.0	1029.2	1458.9	2784.5	7824.7	15754.1	17754.1	16281.6	9439.9	4622.8
65°	780.4	781.8	790.0	1002.0	1333.8	3274.1	11860.1	15347.5	16002.9	8941.0	4185.0
67.5°	668.9	681.2	712.5	795.4	940.8	1435.8	6828.1	11888.7	14307.5	7779.9	3502.4
70°	527.6	543.9	583.3	653.9	726.0	898.7	2523.4	7910.3	10930.1	5864.1	2648.6
72.5°	444.6	443.2	463.6	531.7	576.5	632.2	970.8	4432.4	6352.2	2799.5	1310.7
75°	344.0	357.6	383.5	444.6	471.8	458.2	526.1	1619.3	2276.0	848.4	446.0
77.5°	269.2	280.1	303.2	363.1	390.2	324.9	303.2	579.2	731.4	304.5	201.2
80°	121.1	130.5	206.6	267.8	318.2	224.4	164.5	296.4	324.9	138.7	102.0
82.5°	21.7	36.7	121.1	141.4	163.2	145.4	85.7	153.6	159.1	55.8	35.4
85°	1.3	2.8	42.1	51.7	65.3	47.6	25.8	61.2	53.0	19.1	13.6
87.5°	0.0	0.0	0.0	1.3	1.3	6.8	8.2	10.9	8.2	6.8	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969761  
 CATALOG NUMBER: NAV-SB6A-727-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5	5313.5
2.5°	5227.8	5034.7	4847.1	4693.5	4603.7	4451.5	4350.8	4334.5	4292.4	4329.1
5°	5127.2	4781.8	4432.4	4119.7	3862.7	3531.0	3283.5	3178.8	3087.7	3119.0
7.5°	5079.6	4534.4	3990.5	3456.2	2906.9	2376.7	1982.4	1817.8	1692.8	1710.4
10°	5015.7	4277.4	3424.9	2609.1	1873.6	1350.1	1078.2	977.5	921.8	923.2
12.5°	4966.7	3970.1	2768.2	1768.8	1140.7	862.0	777.7	753.3	736.9	738.3
15°	4942.2	3608.5	2119.7	1178.9	815.8	730.1	709.7	698.8	688.0	686.6
17.5°	4901.4	3206.0	1551.3	860.7	713.8	683.9	666.2	653.9	640.4	637.7
20°	4840.3	2749.2	1134.0	727.4	668.9	645.9	621.4	605.1	588.8	586.0
22.5°	4727.5	2266.5	871.6	673.0	636.3	610.5	580.6	561.5	545.2	542.5
25°	4518.1	1813.7	734.2	639.0	607.7	576.5	543.9	518.0	503.1	500.3
27.5°	4252.9	1424.9	666.2	607.7	571.0	542.5	505.7	481.3	467.7	465.0
30°	3940.2	1097.3	626.8	572.4	527.6	503.1	470.5	450.1	441.9	441.9
32.5°	3603.1	877.0	610.5	537.1	489.4	462.3	436.4	428.2	425.6	424.2
35°	3286.3	761.4	602.3	508.5	455.5	429.7	418.8	420.1	425.6	425.6
37.5°	3004.8	724.7	598.2	488.1	425.6	402.4	409.3	421.5	416.0	416.0
40°	2750.6	728.8	595.5	473.1	401.1	387.4	401.1	391.5	378.0	376.6
42.5°	2556.1	762.8	590.1	460.9	386.1	376.6	371.2	356.2	354.9	357.6
45°	2414.7	792.6	588.8	455.5	369.8	352.2	345.3	330.4	357.6	364.4
47.5°	2247.5	792.6	588.8	436.4	342.7	335.8	324.9	308.6	335.8	342.7
50°	2031.3	742.4	565.6	414.7	320.8	316.8	297.8	277.4	271.9	276.0
52.5°	1758.0	651.3	507.2	384.8	299.1	291.0	267.8	252.9	248.8	248.8
55°	1446.7	545.2	428.2	341.2	276.0	261.1	244.8	237.9	233.9	231.1
57.5°	1176.1	447.3	344.0	303.2	254.3	235.2	229.8	221.6	214.8	210.7
60°	965.3	352.2	284.1	269.2	232.5	214.8	213.5	202.5	184.9	182.1
62.5°	745.1	258.3	239.3	233.9	210.7	195.8	193.1	171.3	144.1	138.7
65°	526.1	201.2	193.1	205.3	187.7	174.0	167.3	134.6	106.1	102.0
67.5°	369.8	168.6	152.3	179.5	163.2	145.4	141.4	114.2	88.4	85.7
70°	263.7	137.4	125.0	153.6	130.5	127.8	119.6	95.2	72.1	69.4
72.5°	186.2	104.7	96.6	133.2	89.7	110.1	97.9	73.4	54.4	51.7
75°	137.4	74.8	68.0	77.5	65.3	82.9	69.4	49.0	34.0	32.6
77.5°	100.7	47.6	40.8	38.0	38.0	51.7	38.0	20.4	15.0	13.6
80°	70.7	21.7	19.1	16.3	15.0	12.2	5.4	2.8	1.3	1.3
82.5°	42.1	9.5	9.5	6.8	4.1	0.0	0.0	0.0	0.0	0.0
85°	9.5	4.1	4.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	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

(END OF REPORT)