

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: P961324

Luminaire Tested: **NAV-SB2A-722-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-722-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

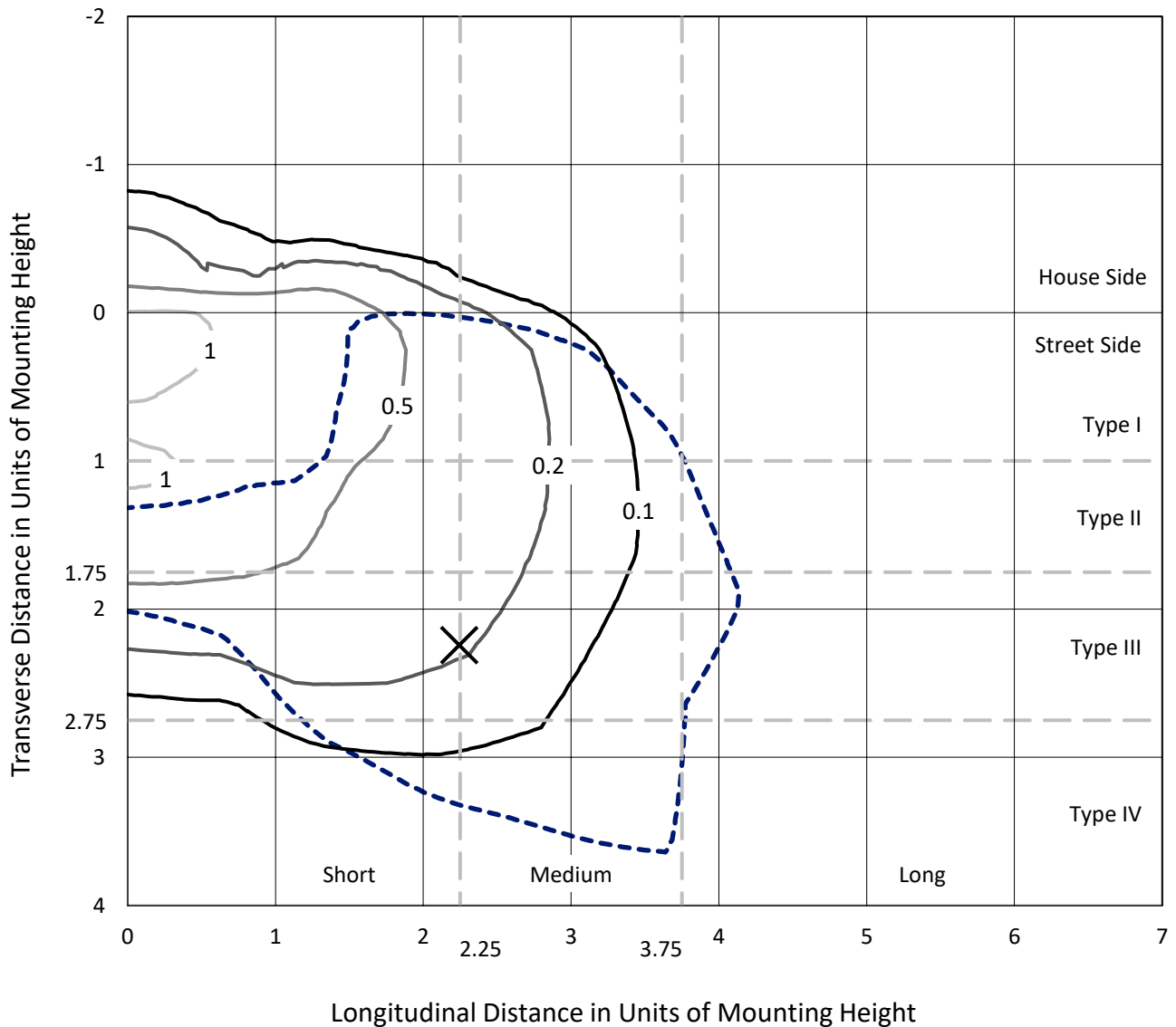
Lumens per Lamp: N/A  
Luminaire Lumens: 5850.7 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

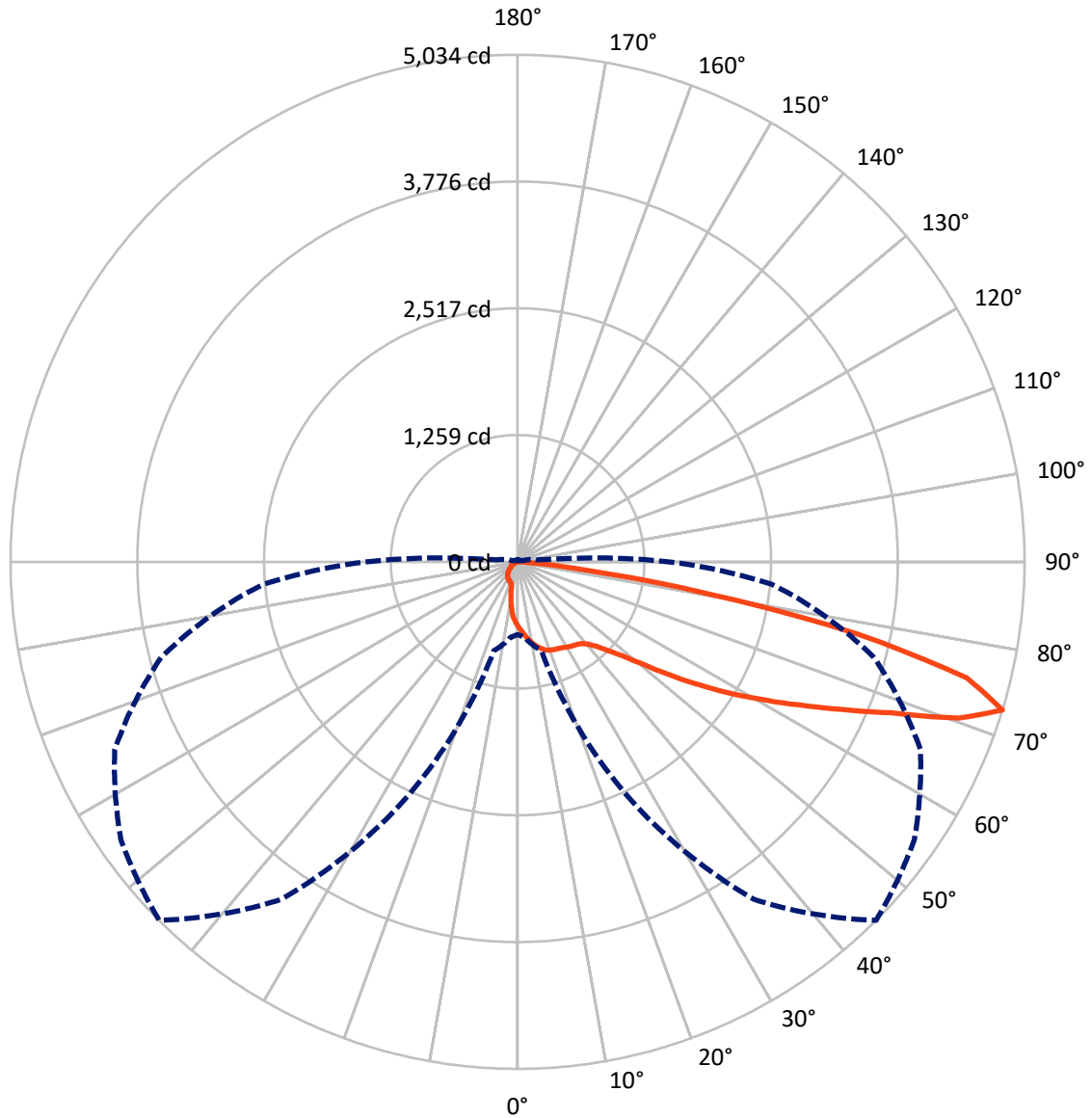
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	614.7	0.0	614.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5236.0	0.0	5236.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	5850.7	0.0	5850.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	1.0
10°-20°	176.5	3.0
20°-30°	289.8	5.0
30°-40°	411.1	7.0
40°-50°	679.4	11.6
50°-60°	1220.5	20.9
60°-70°	1694.8	29.0
70°-80°	1229.3	21.0
80°-90°	88.9	1.5
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°	5850.7	100.0
0°-180°	5850.7	100.0

**Coefficient of Utilization**



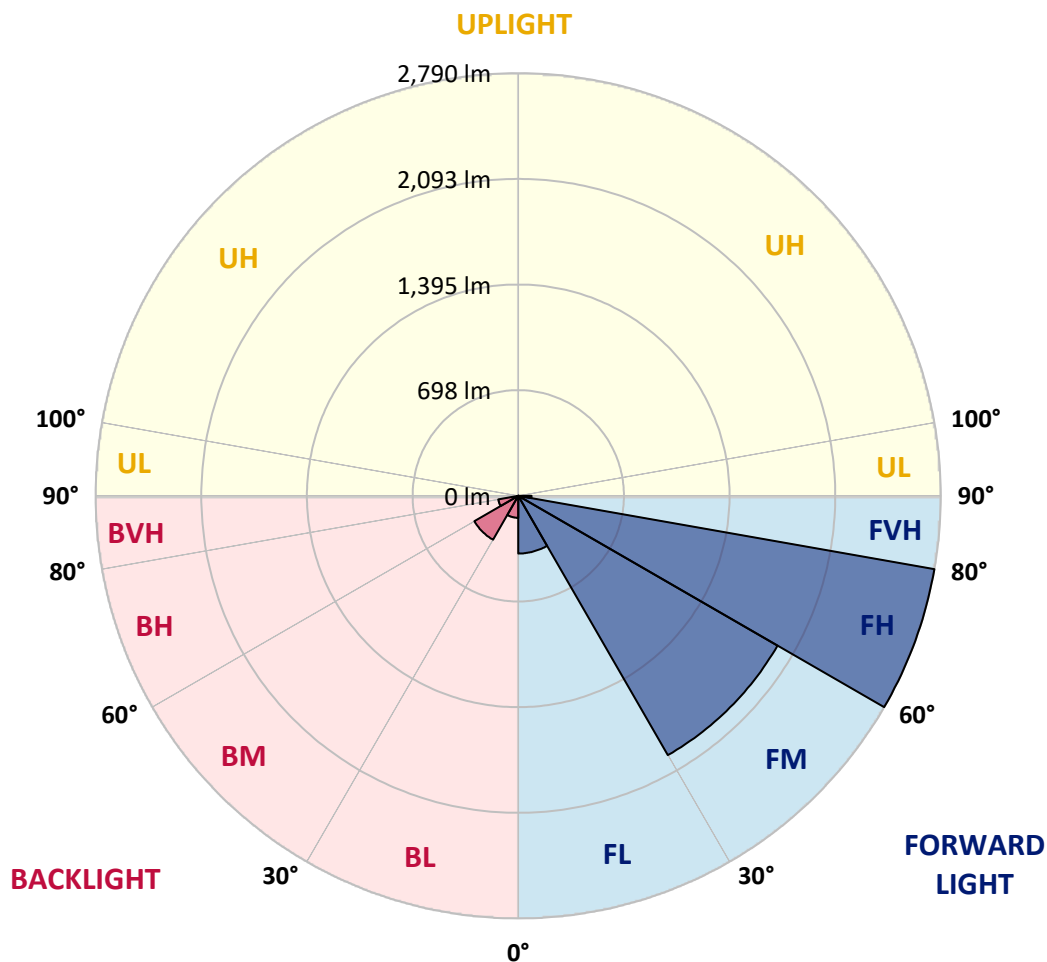
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.1	6.5			
FM (30°-60°)	1976.7	33.8			
FH (60°-80°)	2790.0	47.7			G2/5000
FVH (80°-90°)	88.1	1.5			G1/100
BL (0°-30°)	145.6	2.5	B1/500		
BM (30°-60°)	334.3	5.7	B1/1000		
BH (60°-80°)	134.1	2.3	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	700.1	701.3	700.5	695.7	687.7	683.3	680.9	672.9	667.7	658.6	648.9
5°	764.3	769.2	766.4	756.8	741.6	730.8	727.6	711.2	696.5	679.3	659.3
7.5°	832.6	835.1	829.8	817.4	797.1	778.7	775.9	753.2	729.6	703.3	676.1
10°	891.7	894.5	886.5	868.6	845.4	822.7	818.7	793.6	765.6	733.2	698.4
12.5°	941.3	944.0	933.7	912.1	886.5	862.9	859.1	832.6	801.9	766.0	722.8
15°	978.8	984.0	970.1	946.9	919.3	895.7	893.7	867.8	837.8	797.9	751.9
17.5°	1000.8	1005.9	992.8	964.8	941.3	921.3	918.9	897.4	869.4	831.1	780.3
20°	1004.4	1009.1	995.2	970.8	951.3	935.3	934.1	918.5	898.1	861.4	811.1
22.5°	993.5	999.6	986.8	967.2	953.7	945.3	943.6	934.9	923.3	892.2	839.8
25°	982.4	987.2	977.6	960.4	953.2	952.4	953.7	952.0	949.7	923.3	873.4
27.5°	981.6	986.8	976.0	959.6	955.6	964.0	965.2	972.8	974.8	951.6	905.7
30°	988.4	992.0	981.6	964.4	962.5	981.6	982.1	995.6	998.8	975.6	937.7
32.5°	1003.2	1007.2	996.8	971.6	968.8	995.6	996.8	1014.7	1020.0	1001.2	971.2
35°	1037.9	1042.7	1030.7	991.6	981.6	1008.8	1012.4	1033.5	1043.9	1028.3	1005.9
37.5°	1124.5	1110.6	1094.2	1032.0	1010.8	1029.5	1035.6	1060.3	1078.6	1060.7	1047.4
40°	1339.8	1295.9	1244.8	1100.6	1061.9	1073.9	1078.6	1103.4	1128.5	1111.0	1104.6
42.5°	1662.9	1611.0	1528.7	1258.7	1139.0	1144.9	1148.5	1170.1	1205.6	1191.7	1193.3
45°	1950.8	1932.0	1848.2	1528.7	1283.1	1253.6	1258.0	1269.2	1321.4	1316.3	1326.7
47.5°	2172.1	2161.3	2096.6	1838.6	1526.7	1386.5	1398.9	1404.1	1479.6	1497.9	1525.9
50°	2342.2	2338.2	2280.3	2114.2	1845.0	1582.6	1587.0	1575.8	1688.9	1734.4	1787.5
52.5°	2502.7	2516.3	2473.5	2370.1	2184.9	1839.4	1838.6	1785.9	1938.5	2007.2	2097.8
55°	2647.7	2652.5	2656.9	2631.3	2526.7	2131.7	2124.1	2037.9	2227.9	2299.1	2397.3
57.5°	2783.9	2785.8	2825.0	2877.3	2882.5	2445.6	2431.6	2328.2	2544.3	2595.0	2655.3
60°	2875.3	2884.6	2967.2	3112.5	3176.1	2769.4	2761.9	2656.5	2866.1	2889.7	2878.5
62.5°	2743.5	2799.5	3007.9	3296.2	3453.2	3128.5	3124.9	3025.9	3204.8	3185.6	3089.8
65°	2220.8	2315.5	2682.0	3420.4	3725.2	3529.5	3534.6	3429.2	3552.6	3490.3	3261.4
67.5°	1553.5	1653.3	2087.0	3430.4	4029.1	4000.3	4030.2	3864.9	3922.1	3782.2	3302.2
70°	1074.3	1125.8	1408.1	3215.5	4265.8	4648.8	4648.1	4400.0	4289.4	3915.2	3094.6
72.5°	722.4	749.2	914.5	2551.0	4091.7	5034.2	5011.0	4809.0	4413.2	3661.6	2528.3
75°	304.7	324.3	423.3	1433.7	3237.2	4605.7	4543.0	4249.9	3921.2	2883.3	1577.5
77.5°	96.7	105.1	167.0	513.1	1783.1	3461.9	3395.7	2654.0	2628.1	1446.5	576.7
80°	45.9	53.5	93.9	206.0	701.6	1882.9	1873.7	1204.1	1130.6	390.5	115.8
82.5°	20.0	23.6	51.9	110.2	313.9	671.7	685.3	409.7	339.1	148.1	35.6
85°	6.4	8.4	24.0	50.7	132.6	167.0	164.9	97.5	136.5	80.7	12.4
87.5°	0.0	0.0	8.0	11.6	13.5	9.6	10.8	8.4	37.9	22.3	4.4
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°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	644.1	637.8	626.6	616.2	607.0	597.8	592.2	584.2	583.4	583.4	585.5
5°	648.5	638.2	618.2	597.1	572.7	549.5	526.3	504.0	496.8	491.6	493.9
7.5°	661.3	644.9	613.4	573.1	526.7	476.0	440.4	402.1	387.3	379.4	380.6
10°	679.7	657.3	609.4	538.7	463.6	394.5	343.9	302.3	286.4	279.5	279.5
12.5°	700.1	672.5	602.2	496.0	394.5	311.9	262.4	243.2	240.8	240.8	240.8
15°	724.5	690.8	589.9	445.7	322.3	246.8	229.2	230.0	232.5	234.0	234.0
17.5°	749.6	710.4	570.3	389.4	258.4	222.0	222.4	223.7	225.6	227.2	227.2
20°	776.7	730.0	544.3	329.4	221.6	214.8	216.1	217.2	218.8	219.7	220.1
22.5°	805.9	748.4	513.5	270.8	209.3	208.9	209.3	210.4	212.5	212.5	213.3
25°	837.0	768.7	478.5	228.1	202.8	202.8	203.7	204.5	206.0	206.0	206.4
27.5°	869.0	787.5	441.3	205.6	197.3	196.9	196.9	198.0	198.8	199.3	199.7
30°	904.2	809.4	404.2	200.9	192.9	190.9	189.7	190.4	191.3	191.7	192.5
32.5°	940.0	830.7	370.9	202.8	188.5	184.9	180.9	180.1	180.1	181.7	182.9
35°	980.0	853.8	345.4	209.6	186.1	176.1	169.7	166.2	166.6	168.9	170.1
37.5°	1028.0	881.8	326.7	215.7	184.5	166.2	155.7	151.4	148.5	151.4	150.6
40°	1090.6	922.9	313.1	220.5	182.6	154.6	140.5	133.4	128.2	129.8	128.9
42.5°	1182.8	987.6	307.9	220.9	178.1	140.9	124.9	115.4	107.8	108.2	106.6
45°	1312.3	1089.8	334.7	215.7	168.5	126.2	108.6	95.8	91.0	89.9	88.3
47.5°	1489.5	1238.8	396.6	204.9	154.6	111.8	92.7	81.9	78.3	76.3	75.0
50°	1727.2	1430.1	465.2	192.9	140.5	98.2	79.4	72.7	70.3	68.3	67.9
52.5°	2002.7	1624.1	521.5	180.9	126.6	86.3	71.1	67.1	65.1	63.4	63.1
55°	2255.5	1758.0	518.3	168.1	113.1	76.7	65.1	62.7	60.3	58.7	57.9
57.5°	2412.8	1776.7	427.3	154.2	97.5	69.1	59.6	57.9	55.1	53.1	52.7
60°	2485.1	1669.7	299.5	135.8	81.9	61.9	53.5	52.7	49.1	46.3	45.5
62.5°	2498.3	1470.8	199.7	113.1	68.3	55.1	47.6	46.3	41.5	36.7	34.3
65°	2444.8	1186.4	138.2	88.3	58.3	48.0	40.7	38.3	33.1	28.4	26.8
67.5°	2275.5	833.0	96.2	63.4	49.5	37.9	32.4	31.6	27.6	23.6	22.3
70°	1965.2	474.8	64.3	47.6	39.2	25.9	25.5	26.3	22.3	19.2	17.5
72.5°	1506.7	217.2	40.0	34.7	26.8	17.5	20.4	20.8	17.2	14.3	12.8
75°	886.9	93.1	25.1	22.3	13.5	11.6	14.8	15.2	11.6	9.2	8.0
77.5°	301.9	35.2	16.0	13.2	6.8	6.4	9.6	9.6	6.4	3.6	2.8
80°	68.7	13.2	8.0	5.2	3.2	2.8	3.2	2.8	1.6	0.4	0.0
82.5°	19.6	5.2	3.2	1.9	1.2	1.2	0.4	0.0	0.0	0.0	0.0
85°	5.6	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.4	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)