

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: P959303

Luminaire Tested: **NAV-SB1A-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-735-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3607 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

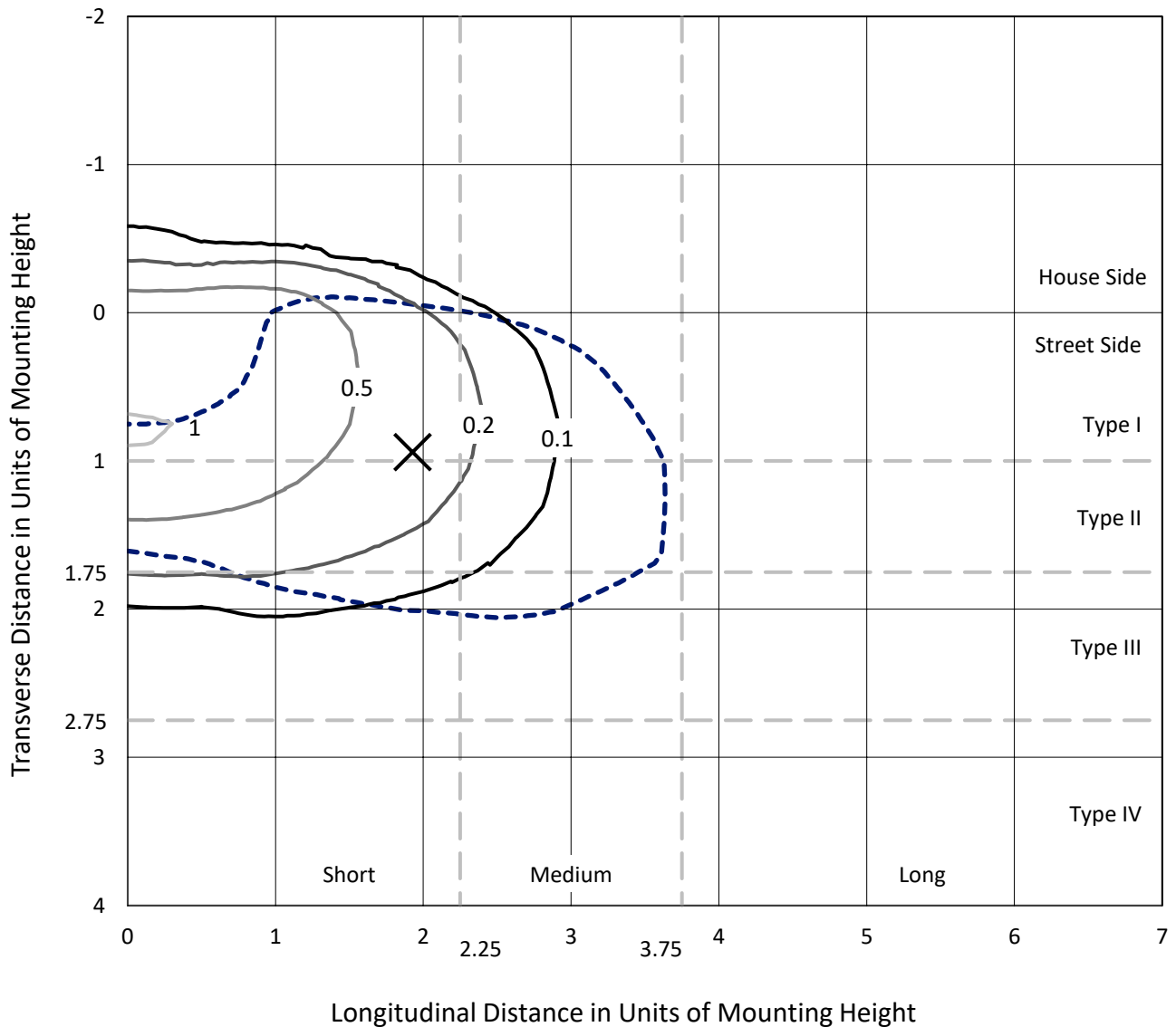
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

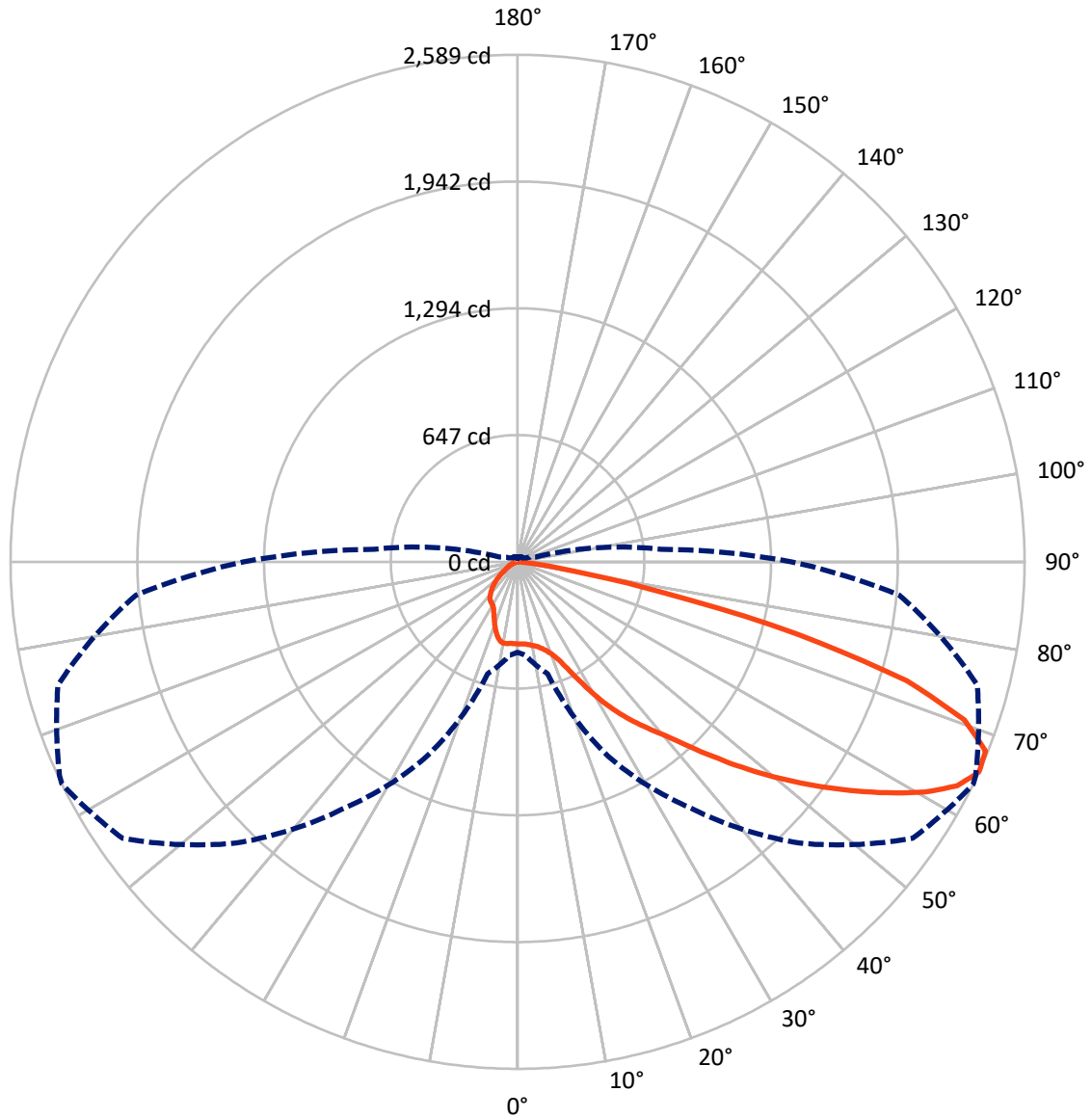
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P959303  
CATALOG NUMBER: NAV-SB1A-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: NAV-SB1A-735-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	482.3	0.0	482.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	3124.6	0.0	3124.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	3607.0	0.0	3607.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	1.1
10°-20°	105.0	2.9
20°-30°	198.9	5.5
30°-40°	402.5	11.2
40°-50°	685.7	19.0
50°-60°	932.5	25.9
60°-70°	875.7	24.3
70°-80°	350.8	9.7
80°-90°	17.0	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°	3607.0	100.0
0°-180°	3607.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P959303

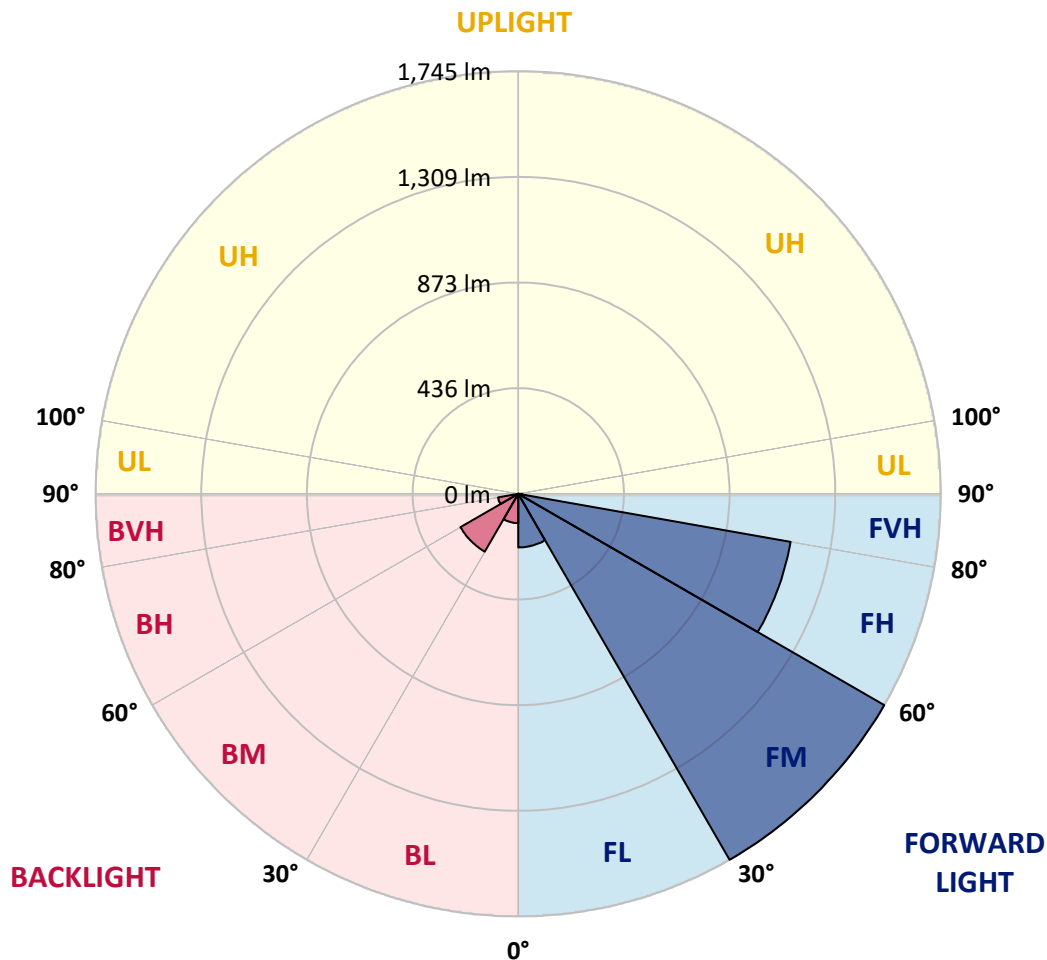
CATALOG NUMBER: NAV-SB1A-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.5	6.1			
FM (30°-60°)	1745.1	48.4			
FH (60°-80°)	1141.9	31.7			G1/1800
FVH (80°-90°)	16.2	0.4			G1/100
BL (0°-30°)	121.1	3.4	B1/500		
BM (30°-60°)	275.8	7.6	B1/1000		
BH (60°-80°)	84.7	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short



REPORT NUMBER: P959303  
 CATALOG NUMBER: NAV-SB1A-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	418.1	421.0	420.2	419.5	419.3	419.7	420.0	419.7	419.7	419.7	420.0
5°	410.1	412.6	412.6	414.2	416.7	419.5	421.7	422.2	422.7	423.4	423.1
7.5°	394.8	396.8	398.2	403.8	409.9	417.6	424.1	427.5	428.0	430.6	431.6
10°	384.5	386.8	389.3	395.1	403.8	415.4	426.5	434.8	435.9	442.3	445.2
12.5°	384.0	386.4	389.5	395.9	406.0	418.3	431.8	443.7	445.9	455.1	461.1
15°	389.1	392.0	394.8	402.6	413.5	428.4	443.0	457.8	459.9	472.9	479.5
17.5°	399.4	403.3	405.5	413.3	424.9	441.6	460.6	477.5	479.5	494.8	503.0
20°	420.0	424.7	425.4	431.6	443.0	460.8	483.6	504.6	507.1	524.5	533.6
22.5°	462.6	469.1	463.3	466.5	476.6	494.5	519.2	545.7	549.1	569.0	577.2
25°	537.5	546.7	531.8	526.4	530.7	549.4	580.4	614.0	617.8	633.8	637.9
27.5°	684.8	672.9	650.3	627.9	614.9	625.6	660.4	701.9	706.8	722.3	717.4
30°	846.5	836.2	805.4	756.1	725.2	723.4	755.6	802.1	807.6	822.4	807.6
32.5°	1008.6	998.7	965.2	904.6	851.0	824.3	846.5	898.1	901.0	910.4	888.7
35°	1167.9	1157.7	1124.4	1062.2	996.2	935.8	931.4	989.4	990.5	1000.3	967.9
37.5°	1328.2	1319.8	1284.2	1223.2	1158.2	1074.8	1034.4	1076.0	1077.3	1086.9	1053.3
40°	1442.6	1446.3	1421.8	1374.6	1318.8	1227.6	1150.0	1168.2	1160.9	1177.1	1157.0
42.5°	1540.8	1548.1	1526.7	1503.1	1470.7	1390.4	1293.1	1290.1	1278.4	1287.1	1266.3
45°	1625.6	1631.7	1612.6	1607.0	1606.3	1550.0	1449.7	1430.8	1414.5	1412.9	1388.0
47.5°	1656.8	1668.4	1676.7	1695.2	1731.5	1707.9	1611.4	1582.1	1563.9	1550.7	1511.3
50°	1668.7	1681.0	1709.1	1763.2	1849.1	1859.2	1772.4	1739.5	1717.3	1693.1	1635.1
52.5°	1652.7	1674.7	1712.5	1803.6	1928.1	1980.6	1926.9	1898.2	1872.8	1833.3	1747.3
55°	1558.6	1580.7	1657.8	1803.1	1967.6	2065.7	2073.0	2060.1	2031.7	1969.5	1837.9
57.5°	1360.4	1393.1	1515.2	1741.7	1966.9	2139.0	2216.2	2225.3	2193.4	2104.4	1909.3
60°	1085.7	1130.0	1278.9	1605.6	1906.1	2178.6	2341.6	2387.5	2353.7	2237.4	1967.1
62.5°	757.6	808.8	949.8	1392.3	1767.3	2150.1	2433.2	2518.1	2492.5	2356.4	1989.3
65°	462.1	478.6	592.1	1095.6	1531.4	2030.6	2461.5	2588.7	2580.2	2429.1	1956.4
67.5°	307.8	321.6	354.2	751.3	1188.7	1792.0	2393.9	2576.4	2578.8	2417.3	1836.0
70°	185.4	197.3	218.6	437.0	770.4	1418.4	2184.2	2419.2	2433.2	2258.9	1607.7
72.5°	76.4	84.4	103.7	198.0	398.9	900.3	1739.3	2077.1	2109.8	1899.3	1233.9
75°	43.3	47.4	60.9	99.4	173.1	419.5	1053.5	1474.6	1522.6	1309.1	742.3
77.5°	28.8	30.7	39.5	64.4	97.5	143.2	450.3	768.2	860.1	715.0	321.3
80°	19.4	21.0	27.1	43.0	63.3	61.4	143.4	284.6	350.1	245.7	78.3
82.5°	13.0	13.3	19.4	28.3	40.2	29.7	42.3	88.5	111.2	71.1	29.7
85°	7.5	7.3	14.2	16.4	17.9	12.3	12.8	26.5	34.8	30.0	16.9
87.5°	0.9	1.4	5.5	4.3	2.5	2.7	2.7	4.6	6.8	7.3	3.6
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: P959303  
 CATALOG NUMBER: NAV-SB1A-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	420.0	419.7	419.0	418.3	416.7	415.6	416.2	415.6	415.4	415.6	416.7
5°	423.1	422.4	420.5	418.1	414.7	410.6	408.0	404.1	400.5	398.2	398.7
7.5°	431.6	430.9	428.2	421.5	410.6	393.4	377.7	363.9	353.5	347.5	347.7
10°	445.2	443.9	439.8	424.9	396.3	358.9	327.7	301.8	284.8	276.9	276.1
12.5°	461.1	459.7	452.4	421.7	369.2	310.7	267.6	238.9	223.1	216.2	215.5
15°	480.0	478.1	463.8	406.7	329.8	257.5	218.1	196.6	186.4	180.1	180.4
17.5°	503.5	500.1	472.2	384.3	287.0	216.9	187.7	171.5	162.5	156.4	156.0
20°	533.9	528.4	479.0	357.4	247.6	191.3	167.1	153.5	146.8	141.4	140.5
22.5°	576.5	568.5	487.2	328.4	219.8	173.6	151.8	142.0	136.4	130.4	129.4
25°	629.1	619.7	497.4	301.6	200.7	158.4	140.7	132.5	126.0	119.0	118.3
27.5°	702.9	686.0	509.5	279.5	184.3	145.3	130.6	121.4	113.9	108.0	106.9
30°	785.2	757.4	520.1	266.2	169.2	133.2	117.3	108.0	101.1	97.0	96.2
32.5°	862.9	825.2	527.2	260.5	155.7	119.4	102.8	92.9	87.5	86.3	87.0
35°	936.5	886.7	526.4	254.8	143.6	105.7	88.5	78.3	74.2	74.9	74.9
37.5°	1021.1	952.2	521.3	246.2	133.8	93.1	76.2	67.2	63.6	63.9	64.8
40°	1119.5	1027.9	518.1	229.7	122.8	81.5	66.0	58.7	56.1	55.1	54.9
42.5°	1224.5	1101.2	518.6	211.0	109.3	71.1	59.0	53.0	50.5	49.8	49.6
45°	1329.9	1171.1	519.4	191.8	95.0	63.1	53.9	48.9	47.4	46.4	46.4
47.5°	1429.1	1230.5	505.8	171.0	81.0	57.1	49.8	46.4	45.2	44.0	44.0
50°	1521.4	1270.2	473.2	146.8	69.9	52.3	46.6	44.3	43.0	41.8	41.8
52.5°	1593.3	1276.4	419.3	121.9	62.1	48.6	44.7	42.5	41.1	39.9	39.7
55°	1625.1	1237.1	342.7	98.6	56.1	45.5	42.8	40.6	38.9	37.7	37.5
57.5°	1616.9	1154.1	267.2	79.3	50.3	42.3	40.4	38.9	37.0	35.1	34.8
60°	1576.6	1043.1	201.4	66.0	45.0	38.9	37.7	36.5	33.8	31.0	30.4
62.5°	1506.6	903.6	143.6	54.6	39.2	35.1	34.5	33.6	29.7	24.4	24.0
65°	1399.8	734.1	96.8	45.5	33.6	30.7	31.0	29.2	24.2	18.1	17.6
67.5°	1243.6	536.8	61.9	37.2	28.1	25.6	25.8	24.9	20.6	15.5	14.8
70°	1044.6	355.5	40.4	28.3	22.4	19.8	21.3	21.5	17.4	12.6	12.1
72.5°	765.8	209.9	28.3	21.0	16.4	13.7	17.4	17.9	14.0	9.4	8.9
75°	436.4	99.6	21.3	15.3	10.1	9.6	13.5	13.5	9.6	6.3	5.8
77.5°	183.3	41.6	15.0	9.9	5.8	5.5	9.2	8.5	4.8	2.9	2.9
80°	53.0	18.7	8.0	4.8	2.5	2.2	3.6	2.7	1.2	0.5	0.5
82.5°	20.8	8.2	3.2	1.9	0.9	0.9	0.5	0.0	0.0	0.0	0.0
85°	12.3	3.4	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.7	0.5	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)