

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: P960278

Luminaire Tested: **NAV-SB1C-727-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5772.8 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

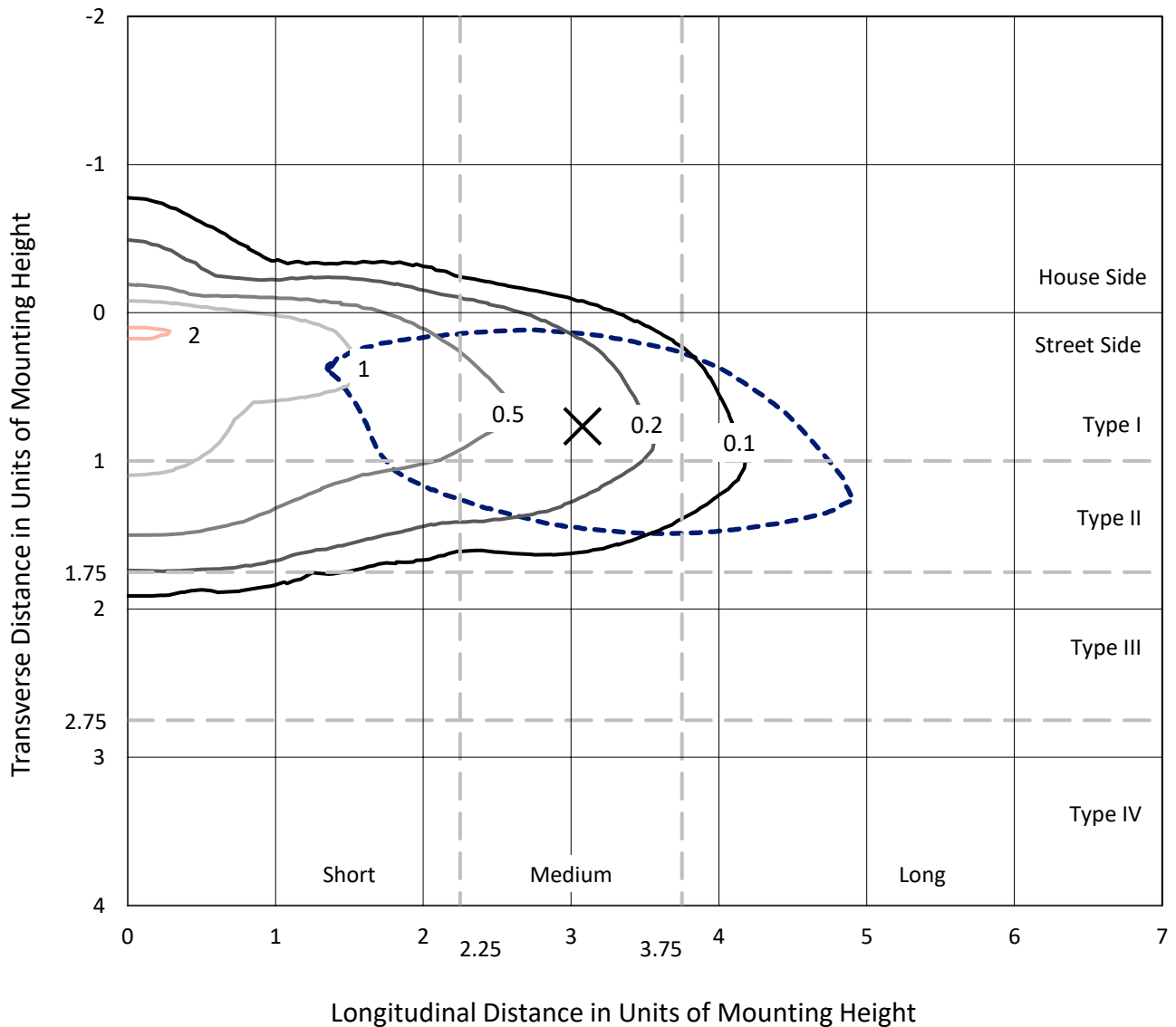
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960278
 CATALOG NUMBER: NAV-SB1C-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

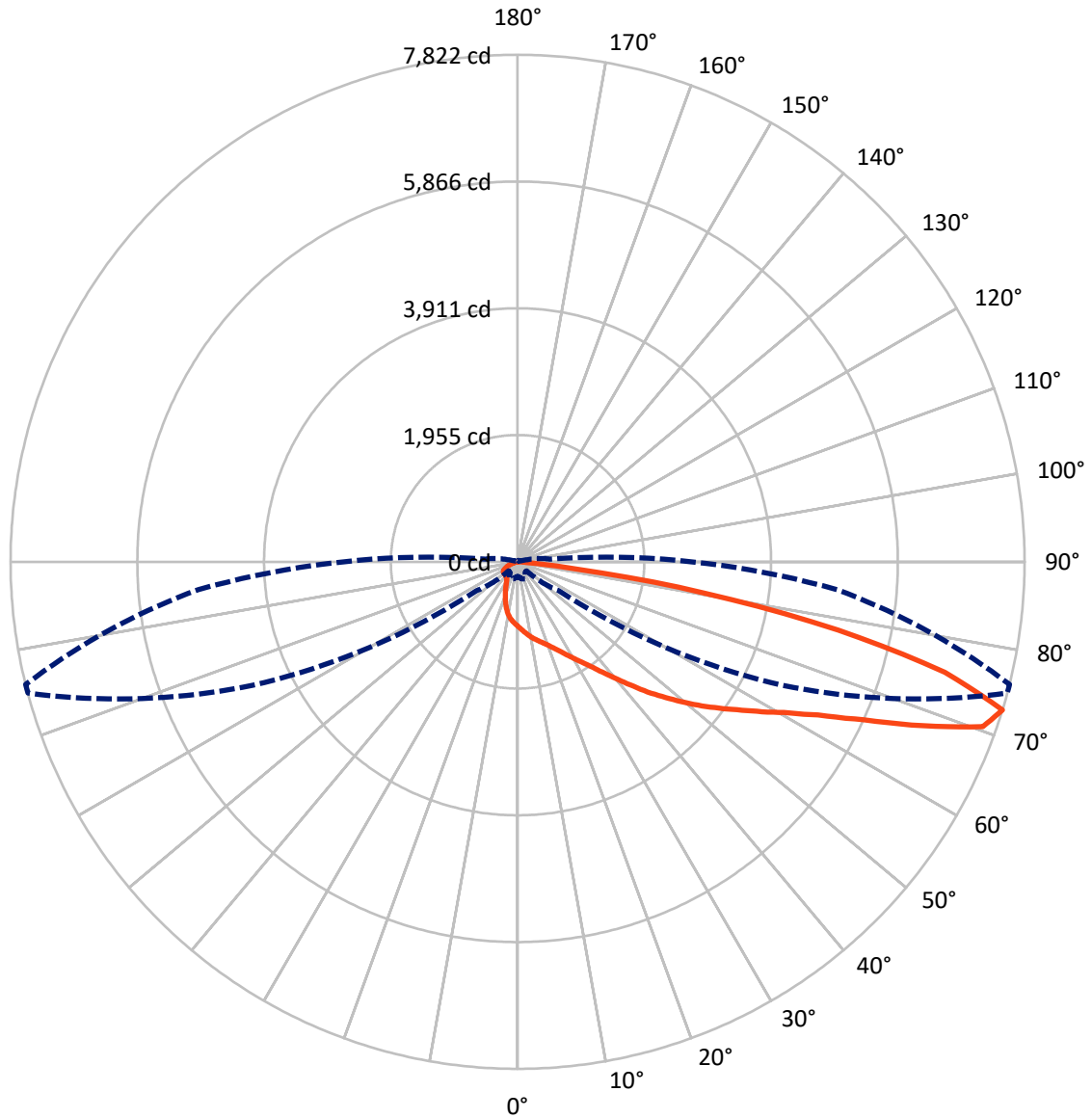
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P960278
CATALOG NUMBER: NAV-SB1C-727-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P960278
 CATALOG NUMBER: NAV-SB1C-727-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	590.8	0.0	590.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5182.0	0.0	5182.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	5772.8	0.0	5772.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.6
10°-20°	243.3	4.2
20°-30°	385.0	6.7
30°-40°	595.7	10.3
40°-50°	904.8	15.7
50°-60°	1247.3	21.6
60°-70°	1317.7	22.8
70°-80°	904.0	15.7
80°-90°	84.1	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°	5772.8	100.0
0°-180°	5772.8	100.0

Coefficient of Utilization

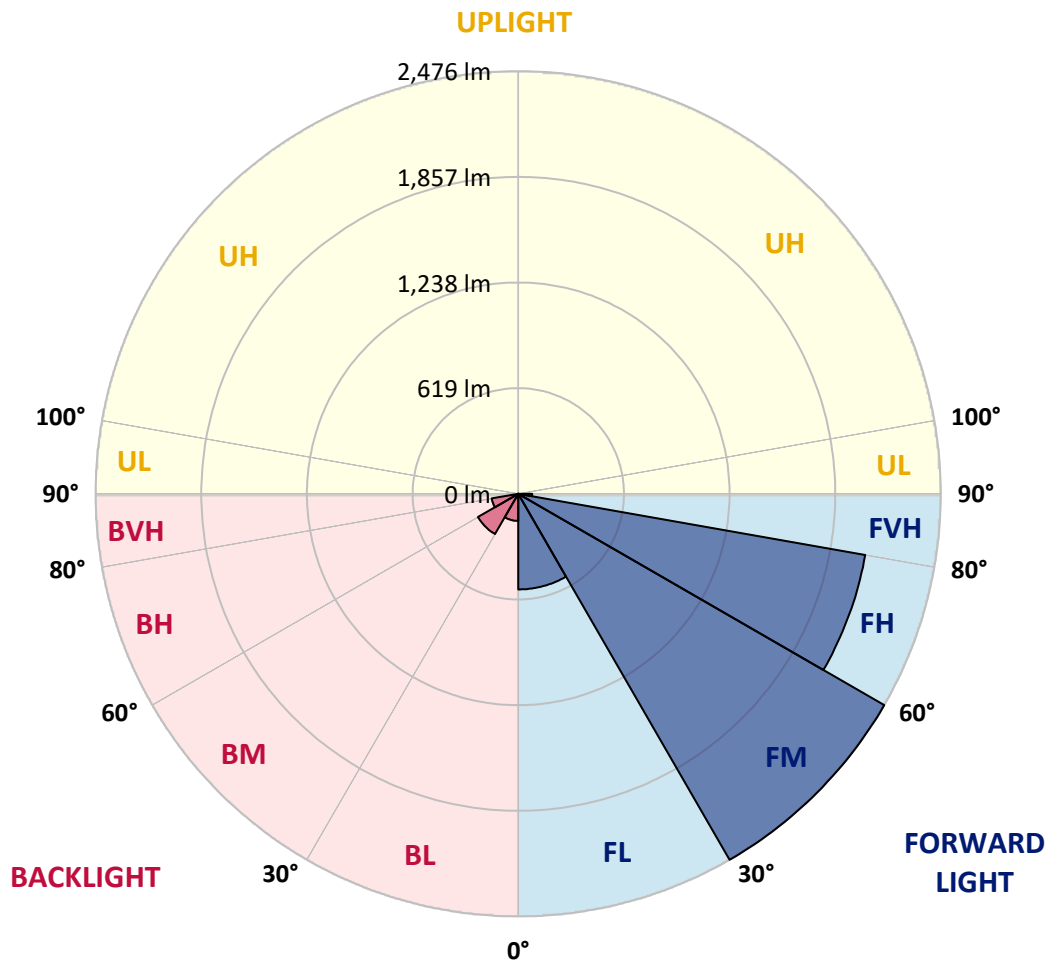


REPORT NUMBER: P960278
 CATALOG NUMBER: NAV-SB1C-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.2	9.7			
FM (30°-60°)	2475.8	42.9			
FH (60°-80°)	2064.0	35.8			G2/5000
FVH (80°-90°)	81.9	1.4			G1/100
BL (0°-30°)	158.8	2.8	B1/500		
BM (30°-60°)	272.0	4.7	B1/1000		
BH (60°-80°)	157.7	2.7	B1/500		G1/500
BVH (80°-90°)	2.3	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 II Medium



REPORT NUMBER: P960278
 CATALOG NUMBER: NAV-SB1C-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6
2.5°	1159.7	1144.4	1147.4	1132.0	1124.9	1107.7	1089.7	1066.1	1039.9	1039.9	1014.4
5°	1281.8	1272.1	1272.1	1254.1	1240.2	1213.3	1181.1	1139.5	1090.1	1085.2	1036.9
7.5°	1356.7	1350.7	1354.4	1344.0	1332.7	1304.6	1266.5	1212.2	1142.2	1136.1	1063.5
10°	1371.3	1370.9	1381.4	1384.5	1391.9	1377.7	1343.6	1281.0	1193.4	1184.8	1086.3
12.5°	1314.8	1307.7	1333.5	1363.9	1406.5	1425.6	1408.0	1344.0	1240.2	1228.3	1107.7
15°	1221.9	1223.4	1248.1	1294.9	1366.1	1434.2	1457.0	1405.4	1287.8	1273.6	1127.9
17.5°	1168.7	1163.1	1184.5	1226.4	1305.0	1401.3	1479.9	1462.7	1338.3	1322.2	1148.5
20°	1162.4	1161.9	1166.9	1185.9	1245.9	1354.1	1477.3	1518.4	1397.9	1379.1	1178.1
22.5°	1206.5	1205.8	1201.7	1197.9	1214.4	1308.0	1466.1	1571.6	1469.0	1448.8	1220.1
25°	1274.3	1273.2	1266.8	1244.0	1227.8	1283.3	1455.6	1621.0	1553.3	1530.8	1271.0
27.5°	1357.1	1356.4	1344.7	1310.3	1268.7	1285.6	1450.4	1672.0	1650.7	1628.6	1329.7
30°	1458.6	1457.0	1433.1	1384.5	1330.1	1321.1	1457.4	1729.3	1752.1	1735.3	1397.5
32.5°	1585.9	1581.8	1550.3	1476.9	1400.9	1368.7	1470.9	1788.1	1872.4	1856.6	1488.2
35°	1684.4	1678.0	1659.7	1594.9	1482.9	1427.1	1502.3	1857.7	2016.9	2003.1	1603.8
37.5°	1769.0	1762.6	1747.6	1694.5	1600.5	1501.6	1553.0	1950.6	2187.7	2180.9	1745.1
40°	1860.4	1849.9	1842.7	1785.9	1700.9	1609.1	1625.2	2059.2	2384.3	2385.0	1914.7
42.5°	1930.8	1926.7	1927.4	1883.5	1797.8	1736.5	1721.1	2181.7	2619.8	2626.9	2118.8
45°	1991.1	1987.7	2001.5	1970.9	1895.5	1819.9	1833.4	2320.2	2877.5	2892.0	2347.1
47.5°	2037.5	2041.3	2061.1	2041.3	1997.0	1878.7	1933.0	2469.6	3148.2	3150.0	2583.1
50°	2083.9	2085.5	2118.4	2108.6	2090.7	1953.2	2024.8	2636.6	3433.5	3436.9	2803.7
52.5°	2098.6	2096.3	2148.7	2172.7	2173.4	2045.4	2143.5	2818.6	3713.3	3724.1	3030.6
55°	2023.7	2030.0	2114.7	2212.0	2250.6	2172.7	2303.8	3049.0	4011.3	4015.8	3255.3
57.5°	1657.4	1692.6	1879.8	2105.7	2300.4	2355.0	2534.0	3318.2	4355.4	4351.3	3483.0
60°	1005.8	1047.8	1271.7	1766.0	2137.8	2538.2	2873.3	3735.3	4731.4	4719.8	3713.3
62.5°	562.4	575.2	646.7	1057.1	1626.0	2421.7	3204.8	4271.2	5236.2	5197.0	3939.8
65°	414.5	418.6	435.5	517.9	799.1	1862.6	3132.1	4911.9	5945.5	5875.4	4211.3
67.5°	360.3	364.4	380.8	392.1	356.9	978.5	2580.4	5267.3	6846.1	6754.3	4578.7
70°	303.3	305.6	332.2	339.7	255.4	372.2	1657.7	5157.6	7679.6	7614.1	4973.0
72.5°	226.2	235.1	273.8	291.7	204.8	197.7	780.4	4509.4	7820.9	7821.6	4946.3
75°	153.5	161.7	205.9	240.1	158.1	138.6	314.9	3367.2	6810.1	6810.1	4336.0
77.5°	104.9	111.6	143.4	188.4	119.8	95.1	163.3	2137.1	4885.8	5057.6	3090.5
80°	46.4	50.5	92.5	136.6	91.0	61.4	92.5	1170.2	2954.6	2918.3	1211.4
82.5°	22.9	26.2	59.1	85.4	58.8	37.8	48.7	556.5	957.6	910.0	189.1
85°	4.5	5.9	31.9	36.3	27.4	16.8	18.3	171.2	115.3	131.8	40.1
87.5°	0.0	0.0	9.7	6.8	3.0	3.8	3.8	15.4	9.0	10.5	10.5
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: P960278
 CATALOG NUMBER: NAV-SB1C-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6	997.6
2.5°	1000.9	987.1	956.7	926.8	896.2	868.1	848.6	829.1	817.1	811.9	812.6
5°	1008.8	980.7	917.1	850.4	784.5	720.1	671.8	626.5	612.2	588.7	590.2
7.5°	1021.2	975.5	875.1	762.8	655.7	561.3	493.1	438.9	417.2	396.2	395.9
10°	1029.4	965.8	819.7	669.5	524.6	418.6	353.5	314.2	299.9	287.2	286.8
12.5°	1032.8	947.8	756.0	565.1	408.2	319.1	280.1	261.8	256.9	252.4	252.4
15°	1035.8	930.2	684.9	464.3	322.5	267.0	251.6	245.7	242.3	239.3	239.3
17.5°	1038.4	907.7	603.6	377.5	272.2	246.0	238.5	232.2	229.6	226.2	226.2
20°	1047.3	886.0	530.9	311.6	244.9	231.0	222.8	216.1	213.8	211.6	212.0
22.5°	1064.3	868.4	460.6	267.0	228.5	215.7	205.2	197.7	196.2	194.7	193.6
25°	1084.4	846.6	394.3	238.2	212.3	198.1	186.4	180.1	178.7	179.0	178.2
27.5°	1110.3	822.7	337.4	219.9	198.1	181.6	168.5	163.7	164.4	165.8	165.1
30°	1138.8	800.6	292.8	207.0	185.3	167.0	154.0	150.6	153.1	155.4	154.7
32.5°	1181.1	781.2	261.8	197.0	174.1	155.0	144.5	140.4	143.4	146.4	145.7
35°	1238.7	771.4	244.2	188.4	164.4	145.7	135.2	132.2	135.2	135.9	135.6
37.5°	1309.5	770.7	236.7	181.2	155.4	137.8	126.2	125.0	127.3	127.7	126.9
40°	1400.9	775.5	231.0	176.0	146.1	128.8	118.0	116.8	117.6	120.2	119.8
42.5°	1516.6	795.7	223.1	169.2	135.9	119.8	111.2	108.5	108.2	111.2	110.8
45°	1661.9	840.3	212.7	158.4	126.9	112.3	103.7	100.8	99.6	100.3	101.5
47.5°	1820.3	895.0	202.2	148.3	120.5	106.4	97.8	94.0	92.1	92.1	92.1
50°	1973.8	956.7	195.1	137.8	116.1	100.8	91.3	87.6	84.7	83.8	83.5
52.5°	2125.8	1017.4	189.5	127.3	110.8	93.6	85.4	81.3	77.9	76.4	75.6
55°	2264.4	1075.1	179.8	117.3	104.1	86.1	79.4	75.2	71.1	68.6	67.4
57.5°	2397.4	1123.0	161.7	106.7	93.6	79.0	73.0	68.6	63.7	60.3	58.8
60°	2518.3	1147.8	139.3	95.5	83.1	71.5	65.9	61.8	55.5	49.8	48.3
62.5°	2610.5	1138.1	115.0	82.7	72.3	64.8	57.7	53.5	46.0	39.4	36.7
65°	2704.8	1084.9	91.7	69.3	63.2	55.8	48.3	44.2	35.6	28.5	26.5
67.5°	2827.3	971.4	72.3	57.7	54.6	44.2	37.8	35.2	29.2	22.4	21.0
70°	2905.9	754.6	56.2	46.8	44.9	32.2	29.2	28.8	23.3	17.2	15.4
72.5°	2690.2	494.7	43.0	35.6	32.2	21.0	22.4	22.4	16.8	11.6	10.1
75°	2245.7	289.5	31.1	25.4	18.3	13.5	15.4	15.4	10.5	5.6	4.5
77.5°	1603.8	154.3	20.6	15.7	9.3	5.9	8.2	7.9	3.4	0.4	0.0
80°	613.4	53.2	9.7	6.4	2.7	1.1	0.7	0.4	0.4	0.0	0.0
82.5°	93.6	13.8	1.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	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)