

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: P959351

Luminaire Tested: **NAV-SB1A-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-750-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4756 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

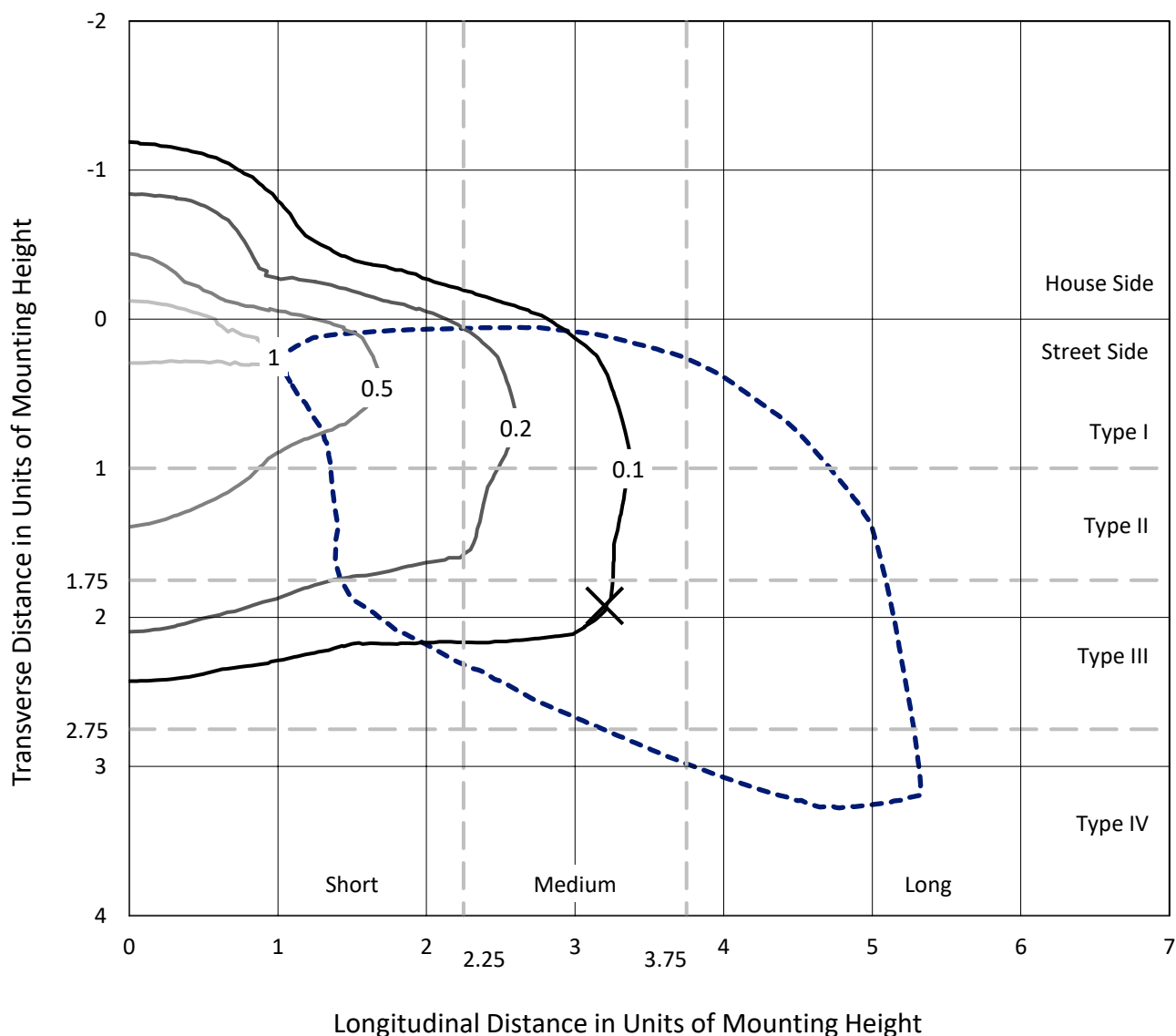
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P959351
 CATALOG NUMBER: NAV-SB1A-750-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

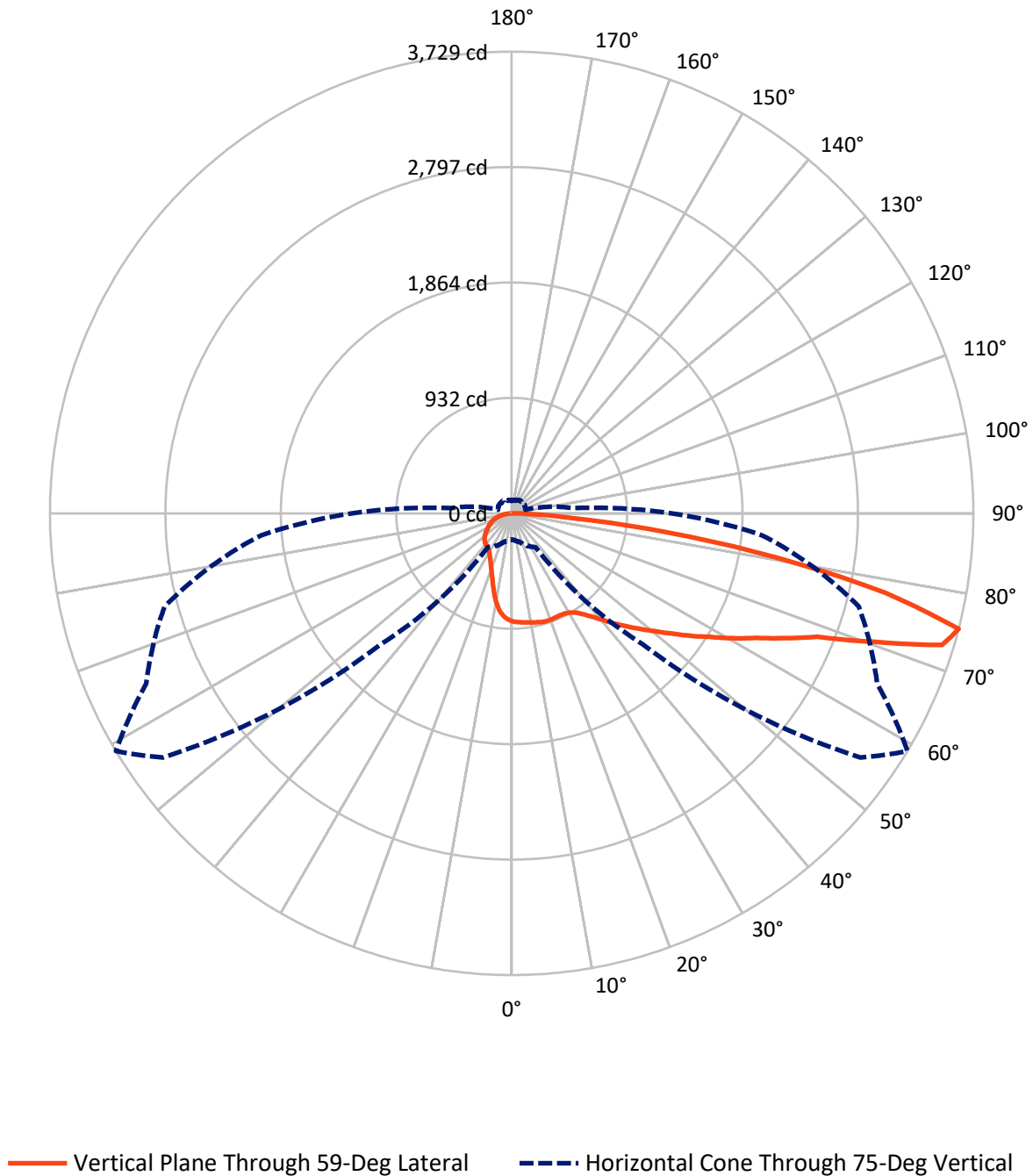
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P959351
CATALOG NUMBER: NAV-SB1A-750-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	892.0	0.0	892.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3864.0	0.0	3864.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	4756.0	0.0	4756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.6
10°-20°	200.1	4.2
20°-30°	303.9	6.4
30°-40°	451.7	9.5
40°-50°	671.8	14.1
50°-60°	911.9	19.2
60°-70°	1113.3	23.4
70°-80°	873.7	18.4
80°-90°	151.4	3.2
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°	4756.0	100.0
0°-180°	4756.0	100.0

Coefficient of Utilization



REPORT NUMBER: P959351

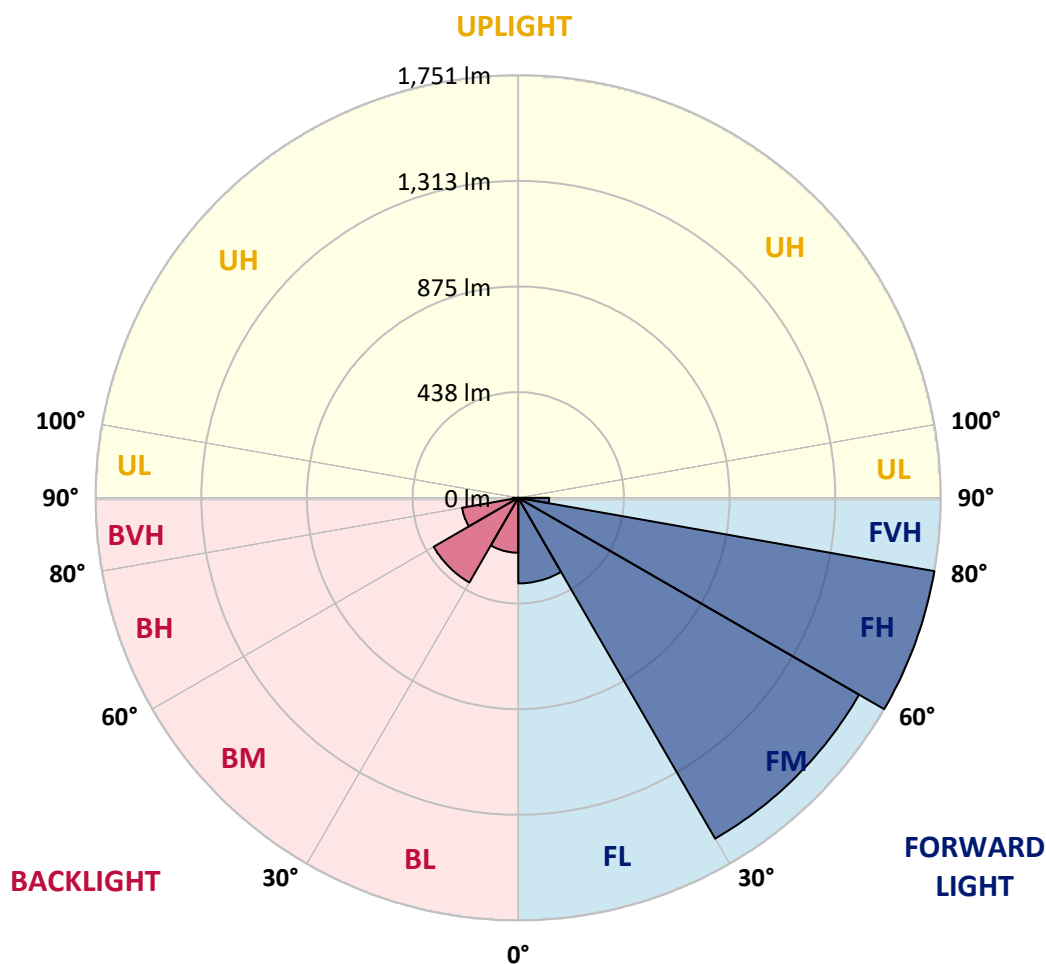
CATALOG NUMBER: NAV-SB1A-750-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.6	7.5			
FM	(30°-60°)	1630.6	34.3			
FH	(60°-80°)	1750.6	36.8			G1/1800
FVH	(80°-90°)	128.2	2.7			G2/225
BL	(0°-30°)	227.6	4.8	B1/500		
BM	(30°-60°)	404.9	8.5	B1/1000		
BH	(60°-80°)	236.3	5.0	B1/500		G1/500
BVH	(80°-90°)	23.2	0.5			G1/100
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 Medium



REPORT NUMBER: P959351

CATALOG NUMBER: NAV-SB1A-750-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0
2.5°	880.4	877.3	880.4	879.1	878.6	877.6	877.8	879.7	878.6	879.9	875.6
5°	874.5	872.7	875.8	875.0	878.3	878.8	882.1	884.2	885.5	885.7	882.4
7.5°	864.8	862.9	867.4	870.9	878.1	880.2	887.0	890.3	892.2	895.2	890.3
10°	829.2	828.4	839.2	852.7	869.6	880.2	890.6	896.3	899.0	907.2	901.6
12.5°	766.3	767.3	781.4	807.5	841.2	875.0	894.7	902.9	907.2	917.5	914.9
15°	706.1	705.9	721.2	749.2	796.4	852.5	896.8	910.8	918.2	933.4	931.3
17.5°	671.4	670.3	681.1	702.3	746.3	817.9	891.6	915.1	931.0	950.0	948.1
20°	664.9	662.9	668.5	679.1	710.2	780.1	878.3	915.1	941.3	965.9	964.8
22.5°	688.2	684.9	682.6	681.3	695.2	748.9	863.3	912.1	956.3	988.6	986.8
25°	735.0	729.9	718.1	706.6	702.5	734.8	849.9	911.3	978.9	1019.3	1012.6
27.5°	810.8	804.4	780.6	753.0	728.2	742.0	844.1	915.9	1003.7	1051.8	1038.5
30°	904.7	897.8	867.9	825.3	780.8	768.5	851.5	929.5	1035.5	1095.0	1069.0
32.5°	988.8	981.1	955.6	912.4	852.2	814.7	875.0	955.3	1085.3	1155.2	1114.7
35°	1063.5	1054.6	1031.6	991.7	939.7	879.3	917.5	1001.1	1156.2	1252.9	1176.9
37.5°	1136.7	1126.3	1101.2	1058.9	1022.6	965.6	976.1	1060.0	1250.3	1371.6	1259.3
40°	1218.6	1203.6	1173.1	1131.4	1096.0	1066.6	1053.1	1132.1	1346.0	1504.1	1362.1
42.5°	1298.0	1283.6	1247.2	1211.7	1167.5	1159.0	1142.4	1216.6	1450.7	1649.7	1466.6
45°	1383.3	1366.2	1322.2	1277.1	1249.3	1220.4	1228.9	1301.0	1553.3	1798.1	1576.0
47.5°	1463.5	1444.2	1392.4	1342.1	1326.9	1272.0	1308.1	1393.9	1660.0	1948.5	1684.5
50°	1506.6	1487.8	1444.5	1399.2	1387.2	1335.8	1394.1	1496.0	1771.7	2098.5	1788.6
52.5°	1542.7	1522.3	1465.7	1440.6	1437.0	1405.1	1500.1	1612.6	1883.5	2231.0	1889.2
55°	1581.2	1558.4	1486.2	1463.7	1480.1	1482.9	1625.6	1744.9	2001.7	2360.2	1984.1
57.5°	1625.4	1596.5	1505.9	1483.2	1522.0	1574.0	1770.0	1882.0	2118.0	2479.9	2068.6
60°	1667.1	1637.9	1543.8	1514.1	1567.3	1679.7	1935.5	2048.1	2249.5	2586.6	2148.4
62.5°	1675.3	1651.3	1574.0	1573.7	1628.7	1803.0	2131.5	2215.6	2364.3	2692.1	2219.9
65°	1533.5	1518.4	1472.6	1571.4	1716.8	1980.5	2349.7	2430.1	2510.4	2784.1	2282.9
67.5°	1167.2	1169.2	1165.9	1356.5	1645.6	2235.6	2665.7	2659.6	2690.7	2887.5	2355.3
70°	533.7	545.7	624.0	936.4	1318.4	2265.0	3188.2	3108.5	2917.1	3021.3	2418.0
72.5°	288.3	297.6	329.5	453.7	792.6	2013.8	3578.6	3635.1	3218.3	3111.4	2349.2
75°	211.6	216.7	238.9	288.3	332.8	1496.7	3438.6	3728.7	3255.9	2901.4	2028.6
77.5°	158.4	160.7	178.9	228.5	170.4	789.0	2747.5	3088.1	2787.2	2383.7	1498.6
80°	114.9	117.5	131.0	171.4	119.5	288.6	1886.6	2167.6	1908.9	1519.5	746.8
82.5°	79.3	80.4	86.2	116.6	83.4	112.0	1070.5	1271.1	1065.6	533.2	201.6
85°	47.9	49.1	51.7	68.1	47.4	53.2	462.1	478.0	318.6	127.4	62.7
87.5°	19.7	21.0	23.1	28.7	18.7	14.9	76.3	95.7	59.7	37.3	19.5
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: P959351

CATALOG NUMBER: NAV-SB1A-750-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0	873.0
2.5°	874.2	872.5	867.6	860.9	854.7	847.2	843.8	841.0	838.4	833.5	831.3
5°	879.7	874.7	861.7	844.8	825.6	804.6	784.1	770.1	758.1	749.2	741.7
7.5°	887.8	878.6	854.7	820.2	776.2	731.2	690.5	661.6	639.9	631.9	618.2
10°	896.3	885.2	843.8	782.9	706.9	637.6	583.6	553.9	536.5	530.8	522.1
12.5°	906.2	890.1	826.7	730.9	629.3	553.4	506.4	488.9	480.0	476.9	477.6
15°	920.8	894.2	800.8	665.9	555.4	492.0	461.6	449.6	445.0	444.6	445.7
17.5°	931.8	894.9	760.7	596.3	498.7	454.9	429.8	425.2	428.2	432.9	434.7
20°	944.1	888.1	708.0	532.9	458.7	422.4	411.9	415.0	422.4	429.1	431.3
22.5°	952.7	875.6	644.2	483.6	424.1	403.7	403.2	409.6	413.7	417.1	418.8
25°	960.4	854.2	576.7	442.1	395.8	392.5	398.1	396.1	393.2	396.1	397.8
27.5°	966.1	820.7	516.3	405.8	375.9	384.8	381.5	376.9	376.6	378.1	380.7
30°	964.3	776.0	466.7	371.3	361.7	370.4	362.5	361.7	361.0	361.7	364.6
32.5°	964.3	725.1	428.6	347.5	352.8	349.5	348.7	347.0	343.9	343.6	347.0
35°	969.6	674.1	395.8	334.7	345.4	337.4	337.9	333.6	327.2	324.2	327.2
37.5°	980.6	633.2	363.3	328.5	332.3	332.1	330.0	322.7	311.4	301.7	304.9
40°	1007.3	621.2	341.0	325.7	326.2	329.2	323.9	309.5	284.0	268.1	270.2
42.5°	1049.0	641.4	336.2	318.8	322.2	325.2	314.7	281.5	263.2	253.8	253.8
45°	1102.0	676.7	346.7	308.8	312.4	317.8	286.6	270.7	262.5	262.7	264.0
47.5°	1169.0	713.8	366.1	300.1	298.3	301.3	267.8	258.2	246.9	249.7	256.9
50°	1246.5	751.4	384.6	288.3	282.7	272.8	255.8	246.6	232.3	225.7	227.4
52.5°	1330.4	787.7	392.0	274.0	265.8	254.3	247.6	236.4	219.0	208.0	207.8
55°	1410.0	820.7	383.8	256.9	249.0	240.0	238.9	232.1	213.4	198.0	198.0
57.5°	1485.2	848.4	363.3	239.4	231.8	226.4	233.3	230.0	206.4	186.8	185.7
60°	1548.9	867.4	333.6	221.8	216.5	213.6	224.2	223.1	196.7	174.8	173.9
62.5°	1599.5	874.7	300.8	204.9	203.7	198.5	211.4	211.4	184.5	163.0	162.3
65°	1639.2	867.6	267.6	188.3	190.9	183.2	195.7	194.2	171.4	152.5	151.5
67.5°	1674.2	844.1	230.7	171.9	177.8	168.1	179.4	175.8	157.1	142.0	140.9
70°	1689.9	789.2	188.8	155.6	162.8	153.2	163.0	156.3	140.9	130.7	128.7
72.5°	1564.6	656.0	148.6	138.4	144.5	136.8	145.3	137.7	123.6	119.0	115.1
75°	1294.4	492.2	114.4	119.7	124.3	118.5	124.1	118.5	105.7	109.0	99.5
77.5°	940.0	332.3	87.5	100.0	102.1	99.0	103.8	97.5	86.0	85.2	81.4
80°	467.4	194.7	68.6	79.0	78.3	76.3	81.9	78.8	69.1	73.2	72.4
82.5°	135.3	83.4	49.9	55.6	54.0	54.5	58.6	60.2	90.1	89.3	91.3
85°	42.4	32.7	29.9	31.0	29.4	30.2	34.5	68.6	63.4	37.1	40.2
87.5°	11.0	11.3	7.4	7.9	8.2	9.7	11.0	41.7	20.0	13.0	13.8
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)