

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: P959341

Luminaire Tested: **NAV-SB1A-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4856.4 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
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

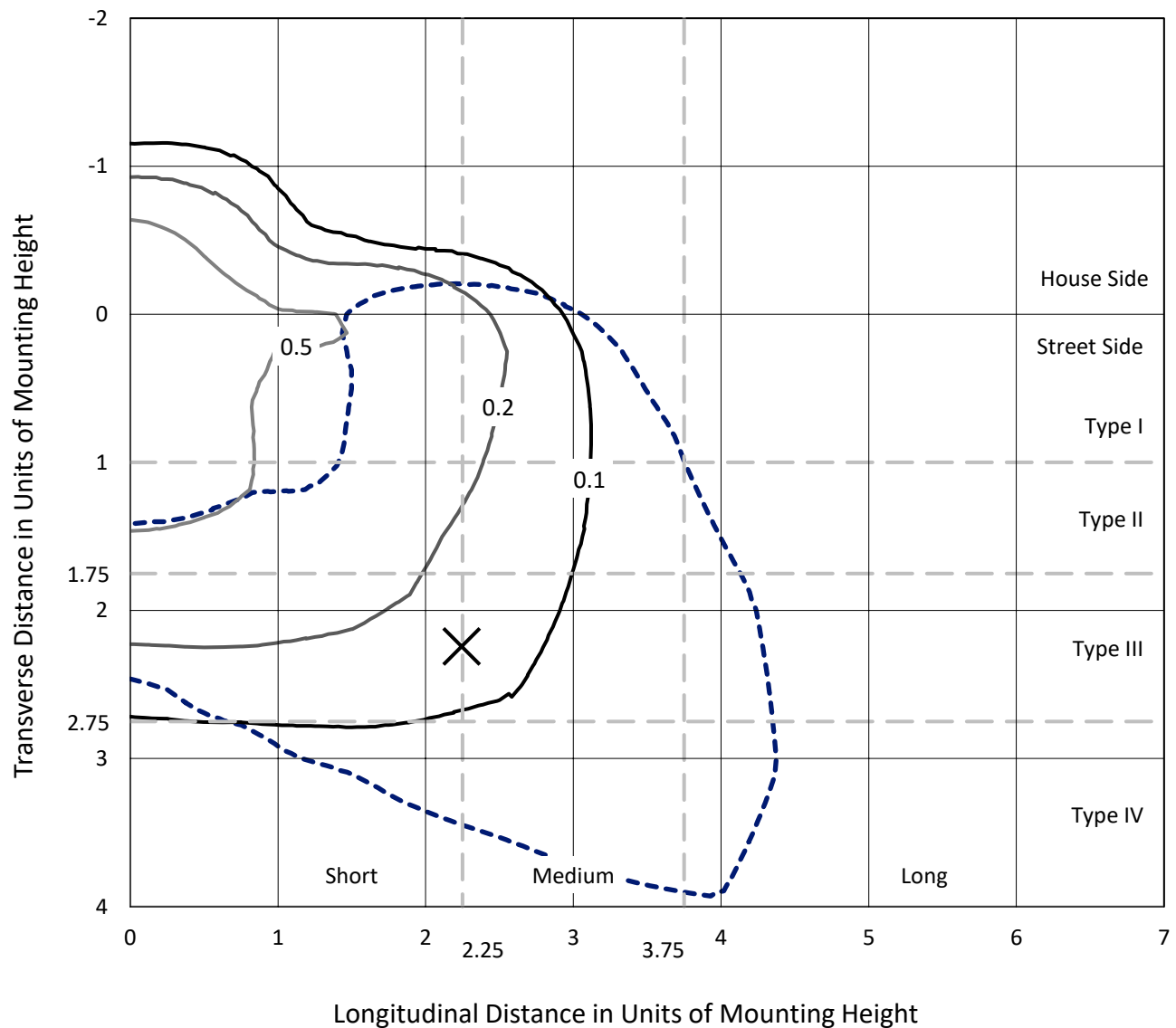


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Iso-Footcandle Lines of Horizontal Illumination

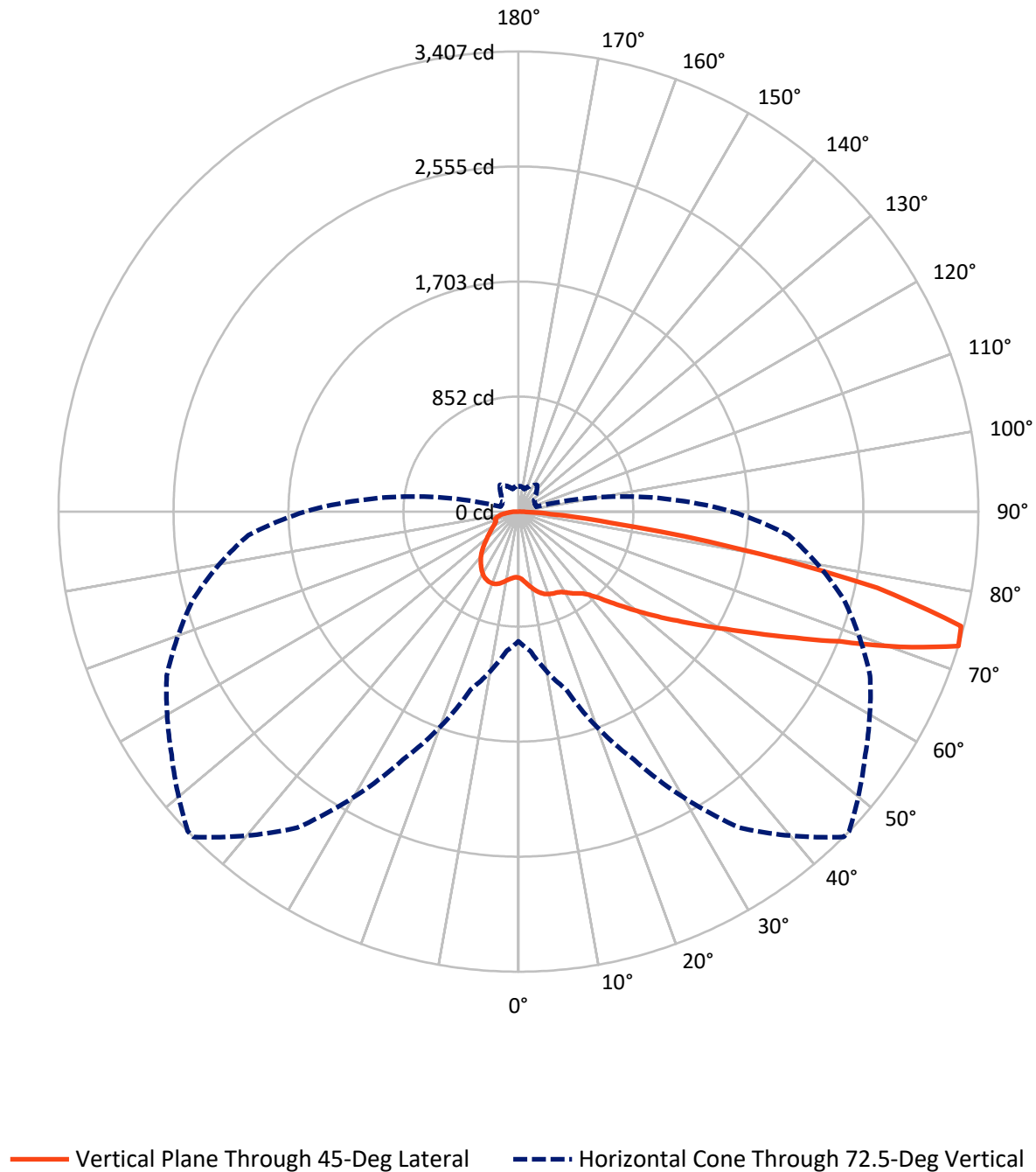
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.9	0.0	1097.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3758.6	0.0	3758.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	4856.4	0.0	4856.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.0
10°-20°	166.3	3.4
20°-30°	289.2	6.0
30°-40°	414.6	8.5
40°-50°	583.8	12.0
50°-60°	894.2	18.4
60°-70°	1295.3	26.7
70°-80°	1034.4	21.3
80°-90°	128.8	2.7
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°	4856.4	100.0
0°-180°	4856.4	100.0

Coefficient of Utilization



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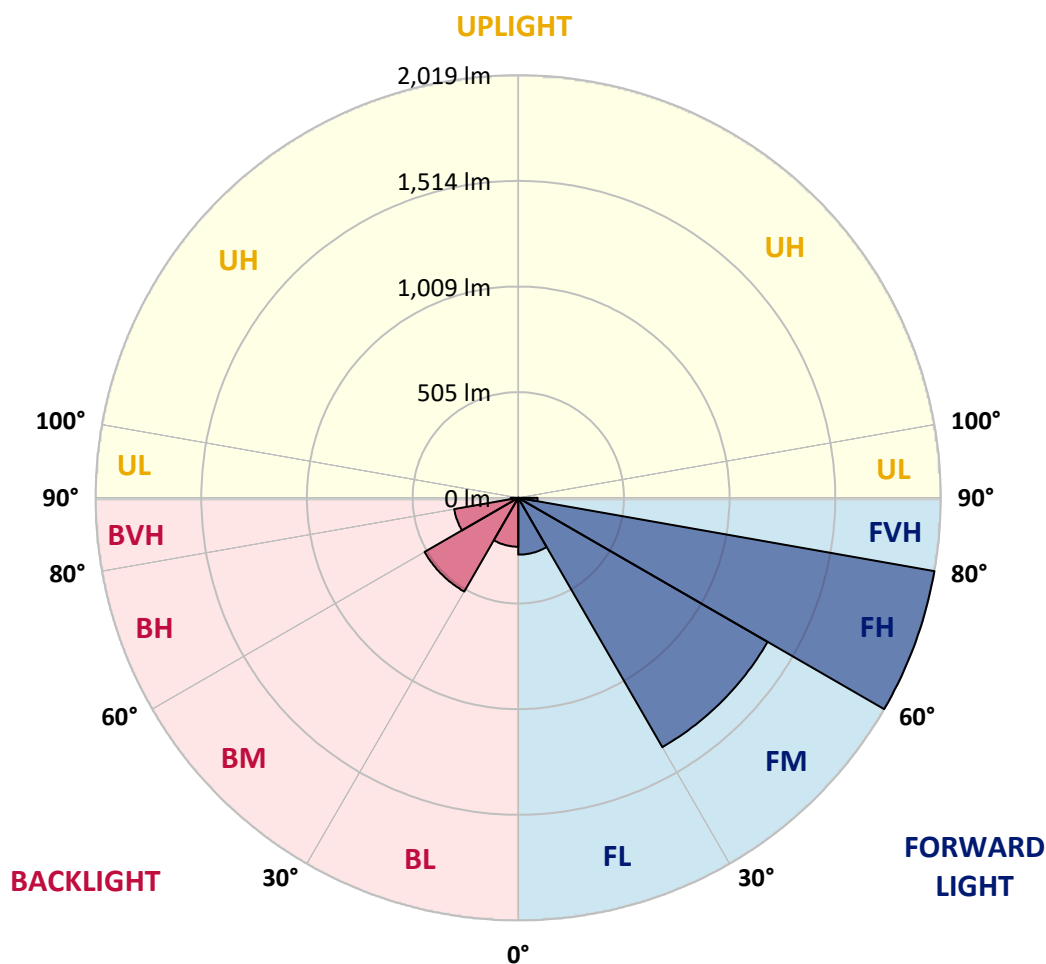
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	271.6	5.6			
FM	(30°-60°)	1375.6	28.3			
FH	(60°-80°)	2019.0	41.6			G2/5000
FVH	(80°-90°)	92.4	1.9			G1/100
BL	(0°-30°)	233.8	4.8	B1/500		
BM	(30°-60°)	516.9	10.6	B1/1000		
BH	(60°-80°)	310.8	6.4	B1/500		G1/500
BVH	(80°-90°)	36.4	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9
2.5°	509.1	512.4	509.3	506.6	505.2	501.9	501.7	499.7	498.4	494.8	493.7
5°	544.7	549.0	543.9	538.2	533.2	525.0	524.0	518.0	511.4	503.8	499.4
7.5°	584.9	588.7	582.8	574.3	565.4	551.9	551.6	540.8	530.3	517.3	509.8
10°	619.9	625.0	617.0	605.6	594.3	578.9	577.2	564.9	551.6	534.7	523.5
12.5°	650.9	654.5	646.8	632.6	619.6	604.2	602.0	588.5	573.6	554.4	540.1
15°	675.4	680.0	669.7	654.7	640.8	625.8	623.7	611.4	596.7	576.4	558.0
17.5°	691.6	695.4	684.9	668.0	654.7	642.2	640.6	630.4	617.4	596.9	577.2
20°	697.6	701.7	690.7	673.6	661.3	651.6	650.9	643.4	634.5	615.8	595.8
22.5°	703.8	707.7	693.3	675.4	664.6	658.6	658.3	653.4	649.8	634.5	615.0
25°	728.6	729.6	710.4	684.6	669.2	663.9	663.6	663.4	664.9	652.9	635.7
27.5°	750.1	749.9	733.5	709.2	685.4	674.1	673.8	676.4	681.3	671.3	657.2
30°	781.6	778.8	759.3	734.0	712.3	694.8	693.3	691.1	694.8	687.0	678.8
32.5°	848.4	839.4	807.9	762.9	734.5	721.2	719.1	704.8	706.3	701.5	697.4
35°	944.0	932.2	890.3	817.6	762.1	743.2	742.2	724.1	721.0	716.6	718.1
37.5°	1057.9	1043.2	994.5	897.0	809.7	768.7	767.2	750.9	738.3	733.7	742.4
40°	1172.2	1153.8	1113.4	993.6	879.9	811.5	806.7	781.9	767.5	759.8	778.3
42.5°	1283.3	1267.9	1233.4	1102.1	966.3	873.9	863.2	820.7	810.0	802.8	836.1
45°	1381.5	1367.7	1342.3	1218.0	1067.6	958.9	948.3	879.0	875.8	875.8	923.8
47.5°	1461.3	1458.3	1431.4	1336.2	1187.1	1055.5	1037.4	960.1	969.1	982.9	1048.4
50°	1549.8	1541.4	1512.7	1452.6	1327.5	1166.3	1151.5	1059.6	1093.2	1131.1	1228.5
52.5°	1631.2	1635.8	1603.8	1573.9	1486.1	1290.0	1263.8	1177.1	1249.5	1312.2	1439.6
55°	1714.8	1715.1	1706.1	1702.0	1652.4	1426.5	1397.9	1318.4	1433.5	1511.3	1685.7
57.5°	1793.4	1794.0	1807.2	1843.3	1845.3	1584.1	1551.6	1491.8	1637.8	1717.2	1939.5
60°	1863.4	1867.0	1903.4	1987.8	2014.9	1764.7	1734.0	1696.7	1849.2	1928.9	2206.3
62.5°	1887.0	1900.0	1980.9	2100.9	2182.5	1986.2	1956.1	1933.9	2071.2	2145.4	2429.4
65°	1847.2	1877.1	2033.4	2194.3	2354.9	2249.6	2219.6	2195.3	2301.9	2371.8	2612.6
67.5°	1749.2	1787.8	2030.3	2292.3	2564.2	2566.3	2538.4	2481.3	2549.4	2576.2	2672.2
70°	1491.0	1548.8	1851.5	2328.9	2804.4	2999.4	2972.5	2825.7	2796.3	2666.3	2504.4
72.5°	960.6	1038.4	1363.4	2027.8	2857.9	3406.9	3405.4	3136.5	2874.3	2491.3	2008.6
75°	350.4	398.1	633.4	1272.7	2398.9	3386.2	3396.2	3083.3	2623.8	1924.3	1251.3
77.5°	127.6	139.7	206.7	489.1	1475.4	2717.0	2737.7	2464.9	1867.5	965.8	495.8
80°	67.0	73.7	105.9	189.8	632.1	1613.6	1646.0	1464.9	877.8	290.9	148.6
82.5°	37.1	40.2	59.3	103.1	284.7	690.0	709.4	578.7	308.8	123.3	61.4
85°	20.0	21.2	27.9	56.3	139.2	239.2	244.6	172.9	123.1	72.4	29.7
87.5°	5.8	7.2	9.2	17.9	54.5	53.7	55.0	34.2	48.6	36.6	9.7
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°	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9	489.9
2.5°	492.2	491.5	488.6	487.4	485.8	485.5	486.9	487.1	487.4	487.6	488.6
5°	496.8	494.3	491.7	490.2	490.7	491.0	493.5	495.3	496.6	497.6	498.2
7.5°	505.7	503.8	499.4	499.2	499.9	502.2	505.5	509.6	511.9	513.7	514.2
10°	519.1	515.3	510.1	510.9	512.4	515.8	522.6	526.0	529.8	533.2	532.4
12.5°	532.7	529.3	523.5	524.0	526.5	532.4	539.0	543.1	545.7	548.3	549.3
15°	550.3	544.4	538.0	538.0	542.6	549.0	552.1	555.4	557.0	559.8	560.8
17.5°	568.5	560.8	552.4	551.9	557.5	560.6	562.3	562.8	563.3	566.4	567.4
20°	586.6	578.2	566.2	565.2	566.4	565.9	565.7	565.2	565.9	569.7	571.2
22.5°	604.5	594.8	578.2	573.6	570.0	565.2	564.9	564.7	565.2	569.0	571.5
25°	625.6	613.8	591.5	577.7	565.7	559.0	559.8	560.1	560.6	563.6	567.6
27.5°	648.3	635.2	603.7	576.4	554.6	550.0	548.8	549.5	551.3	556.2	561.1
30°	671.1	655.7	615.0	571.2	540.8	534.4	530.3	532.2	537.7	542.6	548.0
32.5°	691.8	676.4	624.0	560.1	523.2	513.2	507.8	510.1	515.8	517.5	524.0
35°	716.1	698.6	627.8	542.1	504.0	488.6	481.4	478.2	480.9	479.2	484.8
37.5°	743.2	725.0	627.3	518.5	481.4	463.8	453.9	441.3	435.4	429.3	433.2
40°	783.4	757.3	621.2	490.2	453.6	437.5	419.5	398.3	385.0	373.0	373.8
42.5°	838.1	802.1	609.9	459.0	422.1	407.0	382.7	357.9	336.9	316.9	315.2
45°	919.7	860.6	595.8	425.7	388.1	373.3	346.9	319.0	295.2	269.7	266.6
47.5°	1037.4	939.4	582.5	387.9	352.3	338.8	314.9	289.0	261.0	236.2	233.3
50°	1199.0	1052.5	570.2	351.0	316.9	306.8	287.8	261.5	233.1	213.1	211.9
52.5°	1404.8	1206.2	565.2	315.4	283.9	280.1	265.1	240.5	213.6	196.7	195.5
55°	1640.9	1390.2	565.2	281.5	255.0	256.4	245.9	223.0	199.8	184.7	183.2
57.5°	1881.9	1576.4	554.9	250.0	230.5	235.9	229.2	209.3	188.3	172.7	170.1
60°	2104.0	1732.5	513.4	221.3	208.8	217.2	212.9	195.7	170.1	157.1	155.1
62.5°	2274.6	1820.5	433.7	198.5	190.9	200.6	198.2	177.8	166.8	161.4	159.6
65°	2360.1	1806.2	331.6	178.4	175.8	190.9	186.0	185.2	176.5	170.4	168.3
67.5°	2307.6	1682.8	240.5	163.5	167.1	181.9	200.6	203.7	187.6	175.5	173.4
70°	2077.7	1459.8	179.1	149.4	156.1	182.1	228.7	213.1	184.0	169.8	167.6
72.5°	1580.6	1088.6	138.9	134.6	141.8	183.5	241.3	208.8	173.7	187.8	186.2
75°	903.8	597.7	111.5	116.4	123.8	171.4	234.8	197.5	165.7	172.4	172.4
77.5°	344.6	229.7	92.1	98.5	99.5	149.6	224.6	196.7	157.8	154.1	140.4
80°	119.5	89.8	76.3	78.3	77.0	133.0	215.5	171.2	129.1	115.6	111.8
82.5°	48.9	44.8	60.4	57.8	54.7	103.3	173.9	139.9	105.7	93.4	92.4
85°	21.2	28.4	39.9	35.1	31.7	71.6	139.4	118.5	89.3	77.0	76.8
87.5°	4.3	10.8	16.9	15.9	16.4	47.9	99.0	84.2	63.1	47.4	37.1
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)