

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: P959795

Luminaire Tested: **NAV-SB1B-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-730-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5880.4 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

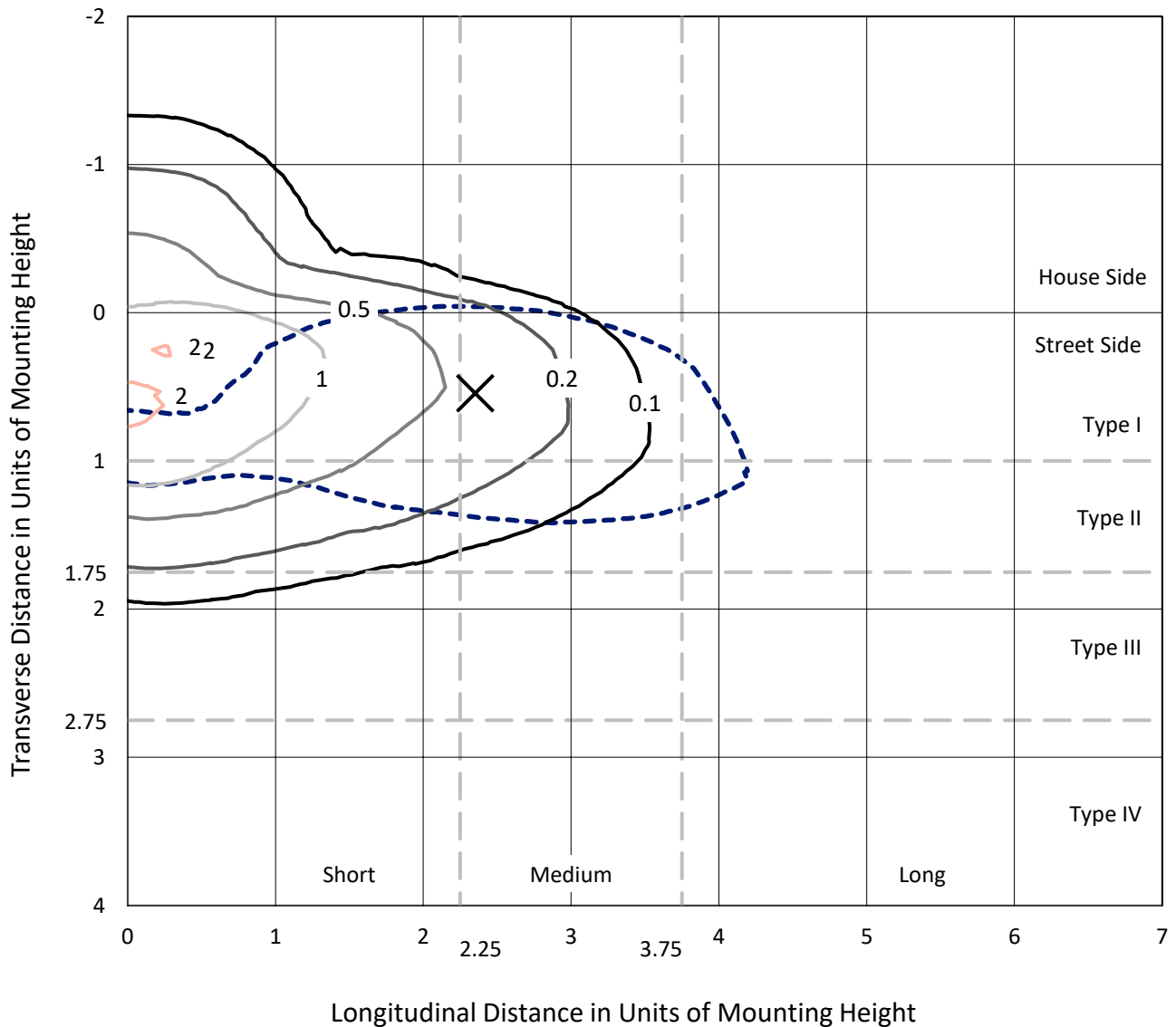
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

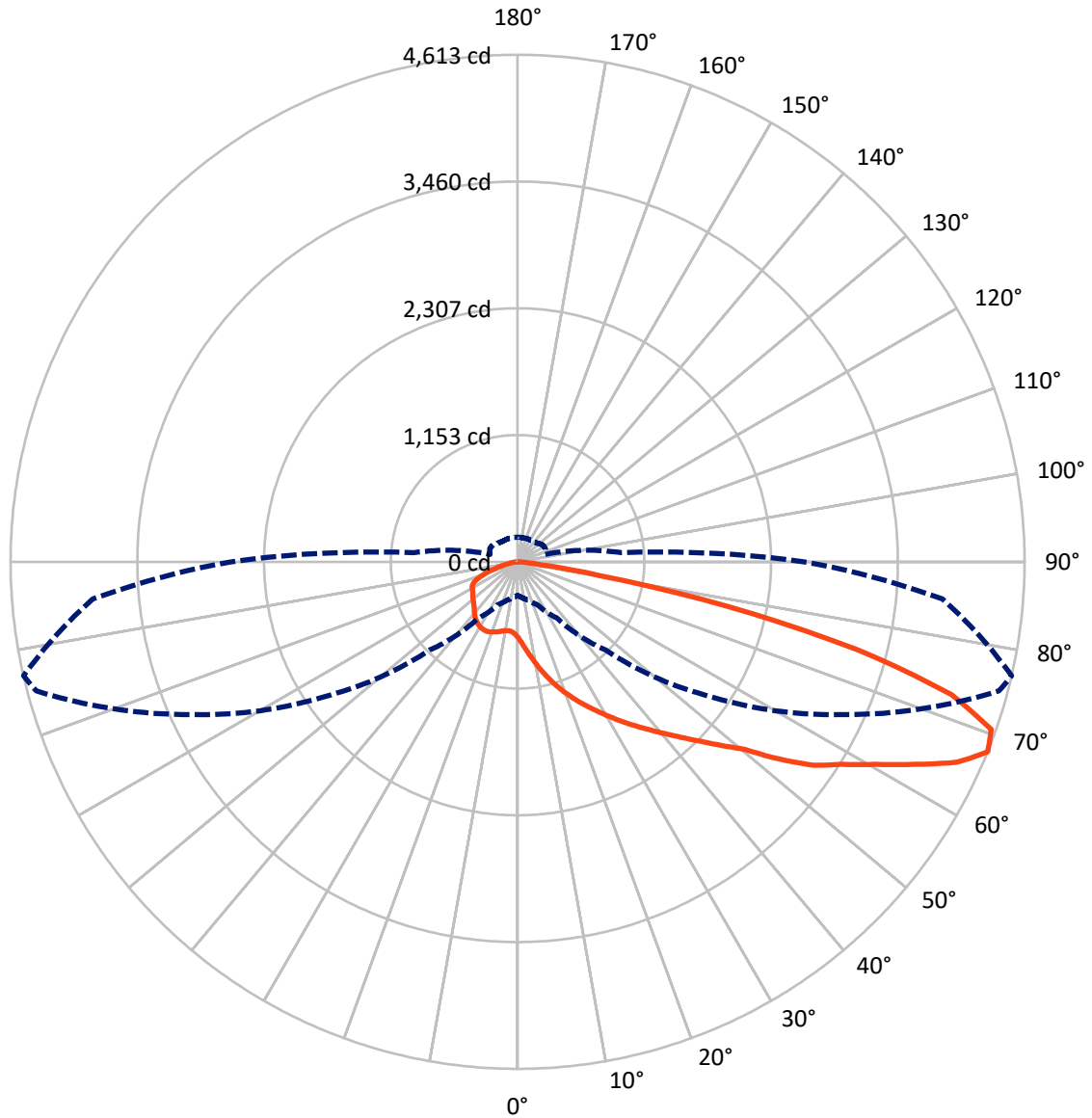
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.3	0.0	1112.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4768.1	0.0	4768.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	5880.4	0.0	5880.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	1.3
10°-20°	265.7	4.5
20°-30°	501.6	8.5
30°-40°	808.1	13.7
40°-50°	1105.4	18.8
50°-60°	1246.9	21.2
60°-70°	1163.8	19.8
70°-80°	638.0	10.8
80°-90°	77.0	1.3
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°	5880.4	100.0
0°-180°	5880.4	100.0

Coefficient of Utilization

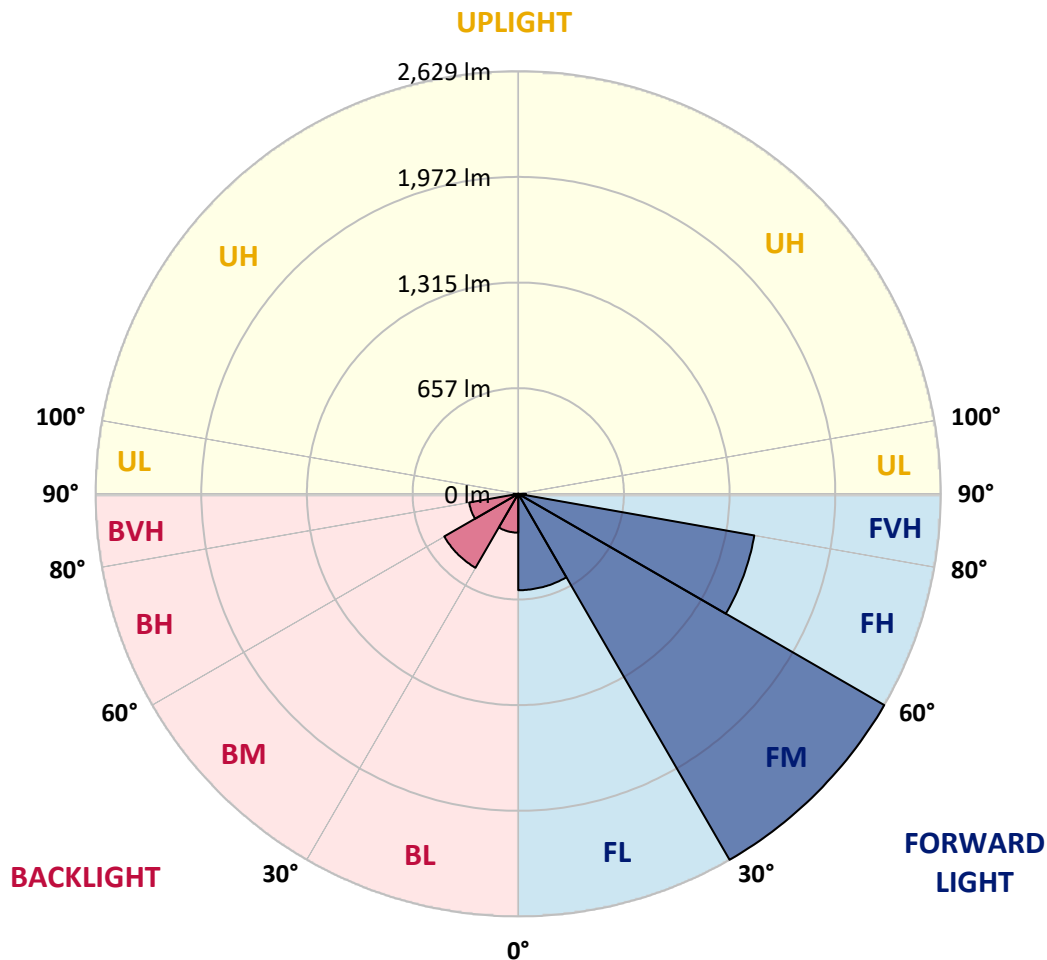


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.4	10.2			
FM (30°-60°)	2629.1	44.7			
FH (60°-80°)	1491.4	25.4			G1/1800
FVH (80°-90°)	48.1	0.8			G1/100
BL (0°-30°)	241.8	4.1	B1/500		
BM (30°-60°)	531.3	9.0	B1/1000		
BH (60°-80°)	310.3	5.3	B1/500		G1/500
BVH (80°-90°)	28.8	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-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9
2.5°	863.9	869.9	862.3	862.3	836.9	823.5	798.1	778.6	743.6	737.6	714.5
5°	1021.1	1028.7	1018.1	1013.5	983.5	955.8	913.1	870.8	808.6	802.3	747.9
7.5°	1142.9	1152.5	1143.2	1138.3	1111.6	1080.7	1030.5	971.6	884.0	871.5	792.8
10°	1242.1	1243.6	1240.6	1242.4	1221.5	1196.0	1144.6	1076.0	966.5	949.5	847.2
12.5°	1298.3	1305.2	1311.3	1322.2	1318.6	1302.8	1256.6	1174.8	1053.9	1032.1	906.4
15°	1324.7	1336.8	1350.4	1375.7	1396.0	1399.9	1364.7	1280.6	1142.9	1116.4	966.2
17.5°	1334.0	1345.6	1367.1	1403.6	1447.3	1476.7	1460.9	1383.5	1230.9	1200.5	1029.0
20°	1381.7	1385.1	1398.1	1432.7	1480.1	1529.0	1540.8	1482.6	1317.9	1283.7	1094.0
22.5°	1483.7	1477.0	1480.7	1496.5	1530.4	1577.8	1604.8	1569.9	1407.5	1368.1	1159.6
25°	1652.2	1632.7	1613.4	1595.1	1612.4	1639.2	1669.8	1657.3	1501.3	1451.2	1225.7
27.5°	1865.0	1841.3	1798.5	1738.7	1717.8	1727.1	1740.9	1738.4	1588.1	1537.5	1294.0
30°	2074.4	2046.8	1995.8	1909.3	1854.0	1829.1	1818.9	1811.9	1682.5	1628.5	1362.9
32.5°	2241.7	2219.8	2169.7	2072.9	1992.8	1950.3	1915.9	1891.1	1781.2	1727.1	1435.7
35°	2387.9	2367.6	2310.2	2204.7	2117.5	2072.3	2027.3	1974.3	1883.8	1829.1	1514.1
37.5°	2521.5	2501.2	2422.6	2312.7	2225.0	2193.7	2153.6	2063.5	1986.7	1935.1	1596.9
40°	2606.0	2601.3	2528.0	2403.4	2312.4	2296.9	2283.6	2167.1	2100.8	2052.9	1688.0
42.5°	2627.5	2637.5	2579.2	2476.9	2390.1	2377.7	2409.0	2284.2	2229.0	2183.0	1791.2
45°	2575.6	2604.4	2566.2	2496.7	2445.3	2438.7	2520.1	2412.2	2370.7	2328.8	1915.6
47.5°	2444.1	2493.0	2477.2	2467.5	2460.2	2489.1	2617.7	2548.3	2531.2	2494.8	2057.7
50°	2178.8	2271.4	2299.1	2360.4	2430.8	2528.3	2706.7	2696.7	2718.8	2682.1	2230.7
52.5°	1720.2	1847.7	2008.0	2161.5	2340.3	2515.1	2804.4	2909.8	3003.2	2983.3	2505.7
55°	1419.9	1477.3	1600.6	1882.3	2164.9	2460.2	2848.5	3081.9	3285.5	3267.7	2714.3
57.5°	1189.3	1240.6	1316.5	1551.7	1899.5	2335.5	2875.7	3186.9	3479.0	3477.1	2920.1
60°	941.9	996.2	1073.9	1240.6	1589.7	2119.9	2869.7	3306.5	3725.7	3740.8	3171.1
62.5°	662.7	722.4	808.6	964.0	1273.0	1840.7	2745.9	3393.1	4016.2	4057.5	3473.1
65°	435.6	475.1	540.0	674.1	948.5	1481.6	2509.4	3404.2	4327.0	4396.8	3756.6
67.5°	305.3	320.5	358.7	431.6	625.4	1136.2	2132.7	3288.0	4534.4	4613.0	3879.6
70°	238.3	245.9	265.3	294.5	392.8	764.0	1634.3	2985.6	4490.0	4572.0	3751.2
72.5°	205.8	213.1	220.4	224.1	263.5	471.7	1107.0	2496.4	4072.6	4128.2	3261.5
75°	186.7	188.5	194.5	193.3	200.9	306.0	639.0	1818.9	3213.3	3194.2	2407.7
77.5°	156.9	159.4	169.3	167.9	178.5	209.1	331.8	1173.8	2083.2	1953.3	1340.2
80°	132.9	134.2	145.1	143.3	155.1	151.5	169.3	598.3	883.7	748.6	386.4
82.5°	46.1	57.1	110.8	114.1	118.4	91.6	97.8	244.1	269.9	206.7	81.1
85°	22.4	24.0	56.5	80.2	79.8	46.1	47.7	87.1	85.0	66.8	27.1
87.5°	3.7	4.5	6.7	31.3	24.9	12.1	16.4	17.0	17.6	15.2	6.0
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°	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9
2.5°	697.5	682.3	650.5	621.0	598.0	575.8	563.3	552.8	546.6	545.5	545.5
5°	716.4	685.1	627.1	578.2	546.4	522.8	510.2	502.4	498.5	496.0	495.7
7.5°	743.3	697.5	615.0	559.4	526.0	509.0	502.7	501.4	501.1	501.4	502.4
10°	780.7	717.9	613.8	554.8	527.0	517.5	517.2	517.5	518.8	519.1	519.4
12.5°	821.1	738.8	618.6	558.8	538.5	533.3	532.4	532.1	533.0	533.6	533.9
15°	865.1	766.5	626.8	567.3	551.2	545.8	544.9	543.0	542.7	542.4	542.1
17.5°	910.3	793.8	635.9	576.5	559.4	551.9	548.5	544.3	540.9	540.0	540.9
20°	956.1	820.8	642.3	581.0	560.1	549.4	542.7	535.5	529.7	526.3	527.6
22.5°	1005.0	849.0	646.3	579.7	554.5	540.0	527.9	519.4	510.6	504.8	505.1
25°	1052.7	873.6	646.0	573.4	544.0	525.4	509.9	499.1	486.9	480.8	480.8
27.5°	1098.5	895.7	638.4	562.2	528.8	508.1	489.6	476.5	464.7	459.0	458.7
30°	1145.8	914.3	626.5	545.8	510.9	488.1	467.8	456.5	445.9	440.4	440.1
32.5°	1192.9	931.3	609.8	525.4	490.3	468.3	448.3	438.0	431.6	431.6	431.9
35°	1242.7	943.1	587.6	501.7	468.3	447.4	431.6	425.6	425.0	421.3	420.5
37.5°	1295.2	950.7	560.7	477.4	446.8	427.1	422.2	414.9	408.9	401.0	399.7
40°	1350.4	958.3	528.2	452.2	424.0	413.1	411.0	401.3	384.0	364.6	361.8
42.5°	1417.6	963.5	494.5	427.1	400.1	396.5	399.4	382.7	355.2	340.6	340.9
45°	1495.3	971.9	463.5	402.2	375.5	375.5	388.3	366.3	343.6	334.5	336.0
47.5°	1596.0	991.7	434.7	374.8	352.7	358.7	363.4	346.7	333.9	322.7	322.4
50°	1741.8	1039.0	405.0	347.3	335.4	347.6	341.2	331.5	316.6	307.5	306.6
52.5°	1922.7	1066.9	378.5	322.4	320.5	332.7	323.6	314.5	303.2	291.1	288.6
55°	2045.9	1072.1	356.4	304.1	310.6	309.3	306.0	297.8	291.7	275.6	275.9
57.5°	2183.7	1082.4	338.1	293.3	304.1	290.8	289.6	282.6	274.7	263.7	260.1
60°	2348.5	1098.5	322.4	288.9	298.7	278.7	272.5	269.9	262.0	256.5	258.0
62.5°	2528.3	1113.0	306.3	289.6	292.3	266.8	257.7	256.8	251.9	250.1	250.1
65°	2650.9	1073.4	286.3	288.9	282.3	254.7	243.1	242.8	238.9	238.3	238.0
67.5°	2608.0	947.4	259.2	280.4	271.9	242.5	229.8	228.6	223.4	223.8	223.8
70°	2393.8	767.6	221.9	259.5	259.2	231.6	215.9	211.9	204.9	206.1	207.4
72.5°	1991.9	568.9	171.8	224.6	238.9	221.6	199.8	193.3	184.6	185.7	185.4
75°	1438.5	386.7	125.0	170.9	208.0	209.7	184.0	173.0	162.4	164.2	164.8
77.5°	736.1	219.1	91.9	117.8	163.3	190.6	169.6	155.1	152.7	169.6	167.3
80°	240.1	109.9	63.8	82.6	107.1	156.0	148.7	132.0	131.4	135.4	116.2
82.5°	71.6	46.4	41.0	54.3	59.1	119.6	128.4	99.8	85.9	90.4	93.5
85°	24.6	22.4	23.4	27.1	28.2	70.1	89.9	66.2	62.5	68.9	68.0
87.5°	5.7	7.9	6.7	6.0	6.0	17.0	35.0	27.6	38.2	25.5	24.6
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)