

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: P959426

Luminaire Tested: **NAV-SB1A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

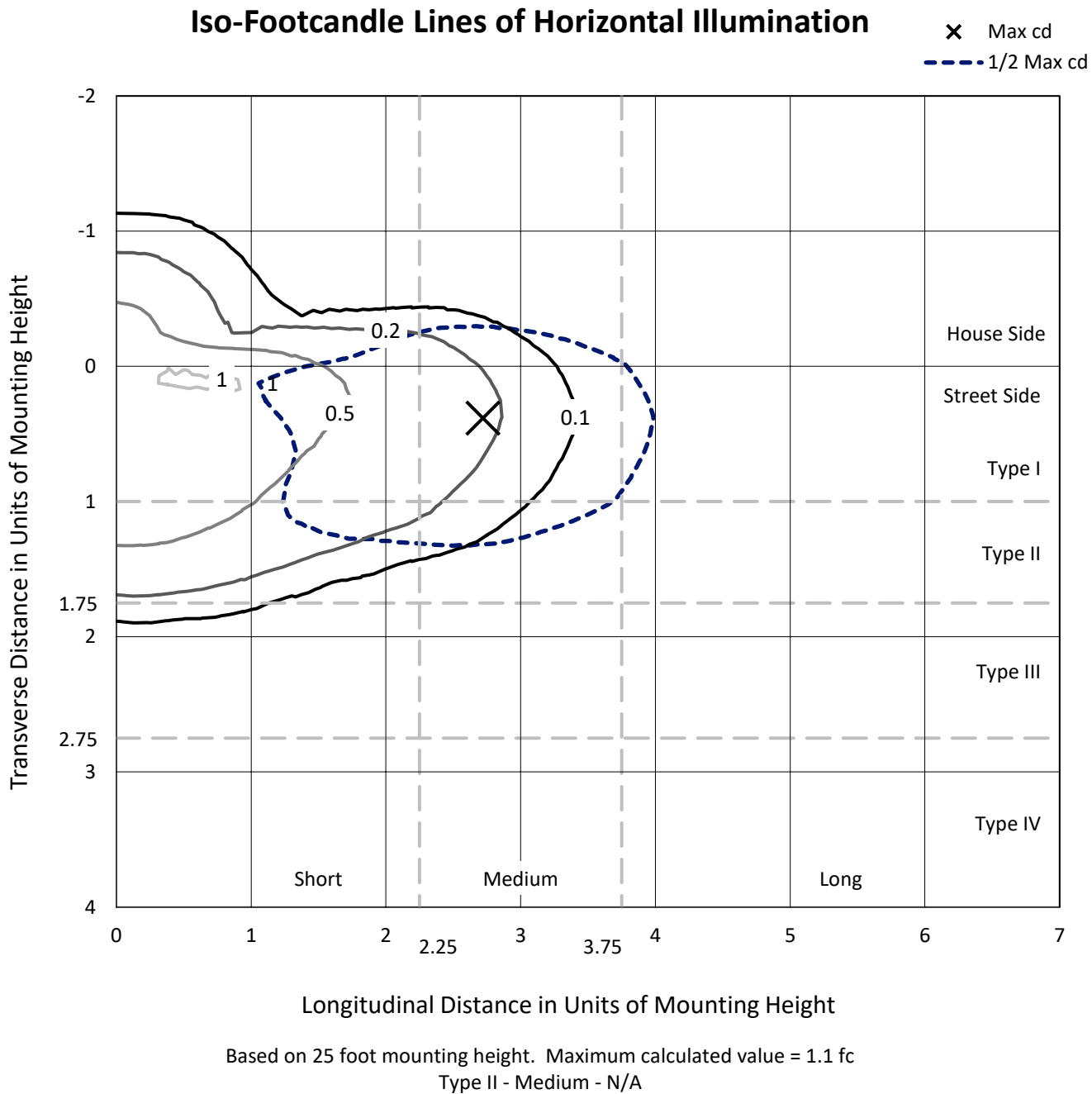
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3962.6 lumens
Efficiency: N/A
Efficacy: 128.2 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): 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

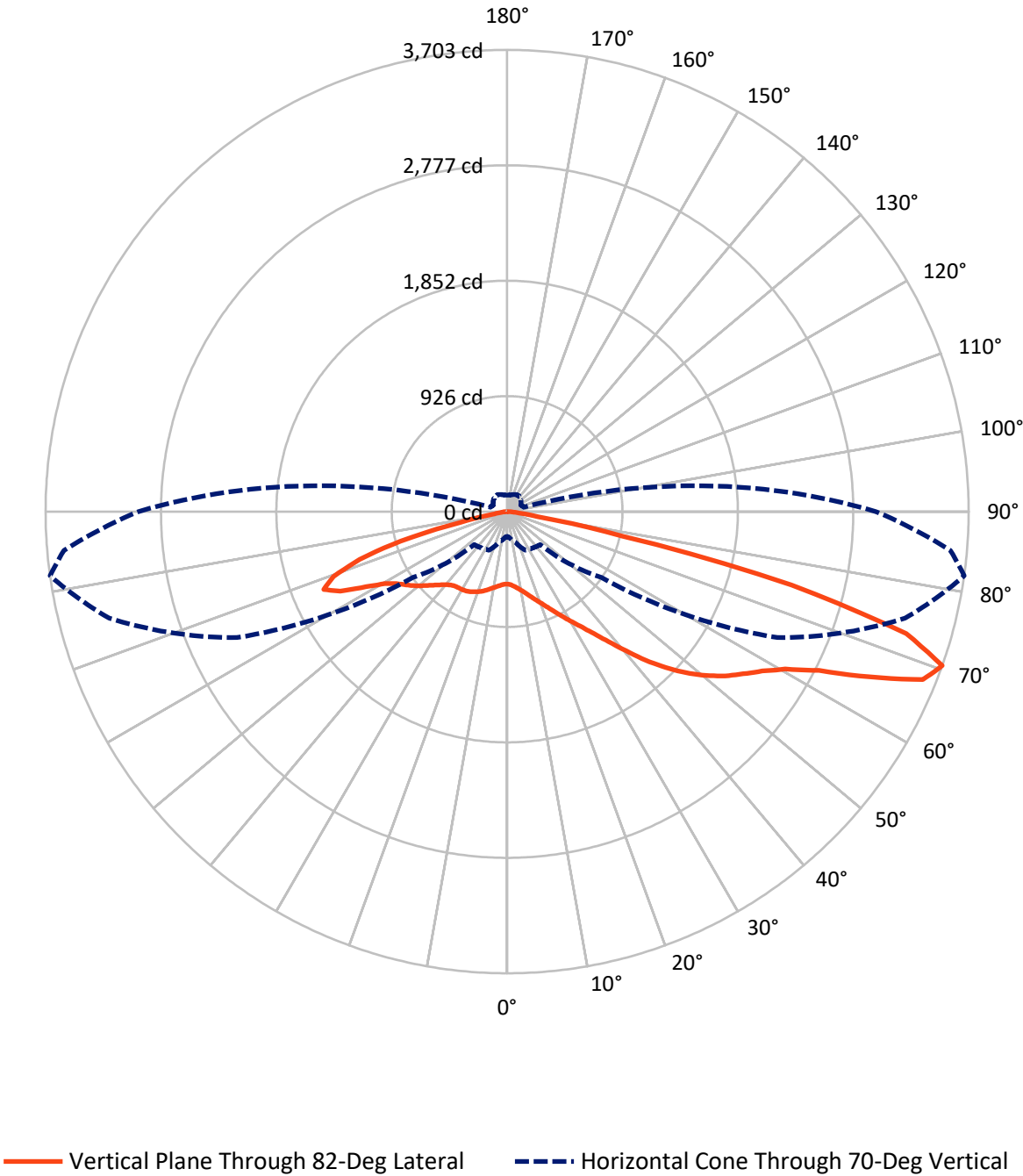


REPORT NUMBER: P959426
CATALOG NUMBER: NAV-SB1A-827-U-T2



REPORT NUMBER: P959426
CATALOG NUMBER: NAV-SB1A-827-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P959426

CATALOG NUMBER: NAV-SB1A-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	976.9	0.0	976.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	2985.8	0.0	2985.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	3962.6	0.0	3962.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	1.4
10°-20°	157.6	4.0
20°-30°	263.7	6.7
30°-40°	411.9	10.4
40°-50°	656.0	16.6
50°-60°	912.9	23.0
60°-70°	954.9	24.1
70°-80°	499.1	12.6
80°-90°	51.8	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°	3962.6	100.0
0°-180°	3962.6	100.0

Coefficient of Utilization



REPORT NUMBER: P959426

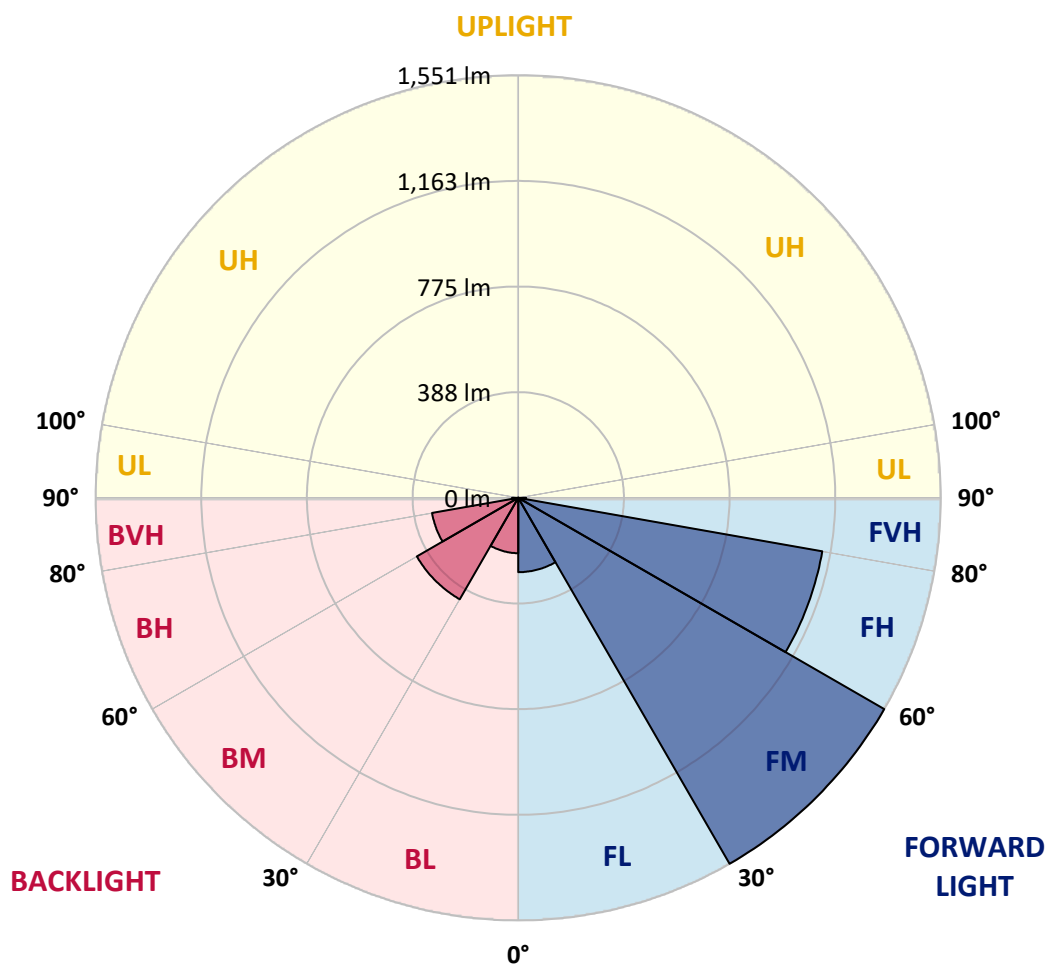
CATALOG NUMBER: NAV-SB1A-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.9	6.9			
FM	(30°-60°)	1550.9	39.1			
FH	(60°-80°)	1132.9	28.6			G1/1800
FVH	(80°-90°)	29.0	0.7			G1/100
BL	(0°-30°)	203.2	5.1	B1/500		
BM	(30°-60°)	429.8	10.8	B1/1000		
BH	(60°-80°)	321.1	8.1	B1/500		G1/500
BVH	(80°-90°)	22.8	0.6			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



REPORT NUMBER: P959426

CATALOG NUMBER: NAV-SB1A-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
2.5°	594.8	598.2	597.2	596.1	596.1	594.6	594.4	592.3	590.6	587.9	587.3
5°	602.4	606.0	605.6	606.4	609.2	609.8	610.4	609.2	605.8	602.4	601.0
7.5°	595.7	599.7	601.0	606.0	614.4	622.0	627.6	630.0	626.8	622.0	619.6
10°	573.0	577.4	581.8	593.8	608.7	626.6	641.8	650.8	650.2	645.5	641.5
12.5°	527.0	531.6	541.0	564.4	591.7	623.2	651.4	670.3	676.8	673.5	666.6
15°	490.2	494.2	501.3	525.2	560.8	608.7	655.0	691.8	708.4	706.5	698.1
17.5°	489.1	490.8	495.2	506.6	533.9	586.0	651.2	712.8	744.6	744.4	733.8
20°	507.6	508.2	510.8	513.0	528.6	568.8	641.5	730.3	785.2	785.2	773.8
22.5°	533.2	532.8	535.4	533.2	540.8	567.3	635.4	745.6	830.4	833.7	819.4
25°	571.7	569.6	569.0	564.2	565.6	581.0	642.2	763.1	884.0	890.9	873.0
27.5°	623.0	619.6	617.4	606.2	602.4	609.2	662.8	784.1	943.7	955.7	933.0
30°	689.9	683.8	680.4	661.1	647.4	648.5	693.9	812.1	1006.1	1025.5	996.7
32.5°	781.2	771.7	762.6	730.9	705.9	697.7	734.0	850.7	1073.9	1104.7	1067.7
35°	883.3	875.8	866.1	817.1	778.6	759.7	788.3	904.8	1153.1	1202.1	1153.9
37.5°	981.7	975.2	979.9	913.8	864.2	836.7	859.4	977.3	1250.9	1323.3	1262.1
40°	1083.5	1078.5	1079.1	1016.0	958.2	927.3	945.6	1068.4	1362.9	1467.3	1391.9
42.5°	1194.1	1190.3	1177.7	1121.8	1056.8	1028.0	1044.8	1173.5	1483.3	1631.3	1534.5
45°	1317.9	1315.7	1303.9	1239.7	1165.3	1132.9	1155.7	1289.6	1604.1	1785.7	1677.7
47.5°	1425.0	1426.9	1425.4	1371.3	1294.2	1246.7	1273.8	1410.7	1716.7	1930.7	1815.1
50°	1476.5	1486.4	1500.9	1484.1	1436.1	1387.7	1393.1	1527.6	1823.9	2066.7	1946.7
52.5°	1449.6	1468.3	1507.9	1534.7	1553.3	1543.1	1529.1	1643.7	1924.8	2189.5	2071.1
55°	1349.3	1375.6	1441.1	1506.1	1600.5	1673.9	1692.5	1772.3	2023.2	2297.6	2188.9
57.5°	1166.6	1209.3	1268.1	1399.5	1558.5	1737.3	1882.9	1950.9	2127.5	2413.1	2312.1
60°	853.3	910.5	983.6	1179.2	1411.3	1703.3	2045.1	2225.1	2275.7	2562.6	2472.6
62.5°	546.1	581.4	648.7	832.9	1099.7	1529.9	2094.7	2567.8	2527.0	2807.7	2713.1
65°	373.8	396.6	458.2	561.6	710.9	1138.8	1961.8	2824.8	2926.1	3196.3	3124.4
67.5°	271.6	288.9	341.4	432.1	463.2	673.9	1522.3	2813.0	3314.0	3596.6	3484.8
70°	198.0	210.2	254.4	341.4	356.4	374.9	922.2	2391.2	3305.6	3703.0	3569.2
72.5°	146.8	155.2	184.8	265.0	288.5	253.2	456.5	1737.9	2840.5	3349.4	3242.0
75°	106.2	112.5	134.4	202.7	230.8	192.8	227.8	1015.6	1981.3	2356.1	2375.0
77.5°	81.2	86.0	100.3	148.4	184.8	144.6	141.3	467.2	939.5	944.1	997.1
80°	65.2	68.4	76.2	104.6	141.8	108.2	92.1	188.6	296.9	251.2	263.6
82.5°	48.0	53.2	64.4	73.4	101.4	74.6	56.2	95.2	113.0	97.2	98.0
85°	27.4	31.0	38.9	52.6	64.8	45.6	32.2	42.2	52.6	43.2	38.4
87.5°	9.6	12.6	13.6	20.6	28.2	19.0	12.4	12.2	17.2	12.8	10.8
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: P959426

CATALOG NUMBER: NAV-SB1A-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0	581.0
2.5°	585.2	584.1	579.9	574.2	568.4	562.7	560.8	556.8	554.0	552.6	554.3
5°	597.0	593.6	583.7	571.1	557.8	543.6	533.4	524.2	517.5	511.2	513.7
7.5°	613.8	607.9	590.8	568.8	545.2	521.4	503.8	490.4	481.3	475.4	476.7
10°	633.3	624.3	598.2	565.2	528.8	494.8	474.0	462.4	456.7	453.6	454.4
12.5°	655.8	643.0	605.8	557.0	503.8	464.9	450.6	447.2	447.4	447.6	448.1
15°	683.6	665.7	611.9	539.2	471.2	442.0	439.4	445.0	450.6	453.4	453.2
17.5°	714.9	689.7	612.9	509.7	439.2	427.2	435.2	447.0	455.6	459.4	460.3
20°	748.6	714.1	605.4	468.0	413.0	415.3	429.6	444.7	454.2	459.0	460.3
22.5°	787.0	740.2	587.3	424.4	391.5	402.2	419.0	433.8	443.6	448.5	449.8
25°	831.0	769.4	558.9	387.6	373.0	387.6	404.4	416.6	424.6	429.0	430.2
27.5°	879.8	799.9	521.0	358.3	356.8	372.4	386.2	395.8	400.0	403.3	404.6
30°	928.8	827.6	475.2	336.2	342.8	357.4	367.4	371.6	372.8	373.4	374.9
32.5°	981.7	851.6	427.0	318.0	329.3	343.0	348.8	350.8	344.8	340.8	342.1
35°	1045.9	877.2	380.0	303.4	316.0	327.8	329.7	328.0	321.0	312.8	313.3
37.5°	1125.1	909.2	342.3	293.2	303.6	311.4	309.1	308.6	309.3	299.6	300.2
40°	1222.3	950.8	314.8	285.2	293.6	295.2	288.7	292.2	295.4	280.7	281.2
42.5°	1330.1	1001.1	297.4	279.6	285.2	281.2	271.0	275.0	274.6	255.2	255.0
45°	1440.1	1055.8	291.2	275.6	277.4	269.4	258.2	259.2	250.4	233.0	233.6
47.5°	1549.5	1114.4	295.0	272.3	267.6	258.6	250.0	245.4	232.4	219.4	219.4
50°	1656.7	1176.1	308.9	265.6	254.4	249.2	242.8	234.6	220.8	209.6	208.8
52.5°	1756.1	1238.1	324.4	254.4	237.8	241.0	237.0	227.6	213.8	202.5	202.7
55°	1850.3	1300.1	330.6	239.0	222.2	233.8	231.5	214.0	197.6	188.4	187.6
57.5°	1952.9	1374.7	323.8	219.6	209.6	225.6	216.8	197.4	188.0	181.0	180.4
60°	2095.1	1491.9	309.3	195.4	197.6	213.4	198.2	190.3	180.0	172.2	171.8
62.5°	2331.3	1710.3	286.0	171.4	183.6	195.4	189.4	181.4	171.0	163.4	163.4
65°	2680.3	2013.9	242.0	152.6	167.8	177.6	180.0	172.0	161.0	153.0	153.5
67.5°	2974.7	2204.5	183.2	137.1	151.6	163.4	169.9	162.2	150.6	142.8	143.0
70°	2958.5	2066.1	139.8	121.8	137.4	149.2	157.7	151.6	139.2	131.8	132.4
72.5°	2627.7	1728.5	113.2	106.2	122.8	134.6	144.6	140.0	127.4	120.2	120.2
75°	1930.5	1226.9	90.4	90.4	104.8	119.2	130.4	127.4	115.8	110.8	109.4
77.5°	813.7	514.8	70.8	75.0	87.0	102.4	116.2	117.4	107.2	113.6	103.0
80°	216.4	142.0	54.0	59.0	68.4	84.6	101.2	100.8	89.8	83.9	78.0
82.5°	82.4	56.0	38.4	41.6	49.4	64.8	80.2	82.6	71.8	62.0	62.0
85°	31.8	24.0	23.8	25.0	28.8	42.8	60.6	62.6	54.0	45.8	47.4
87.5°	8.2	7.2	8.8	8.4	13.2	23.0	34.6	36.0	33.0	19.2	27.4
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)