

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: P959336

Luminaire Tested: **NAV-SB1A-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

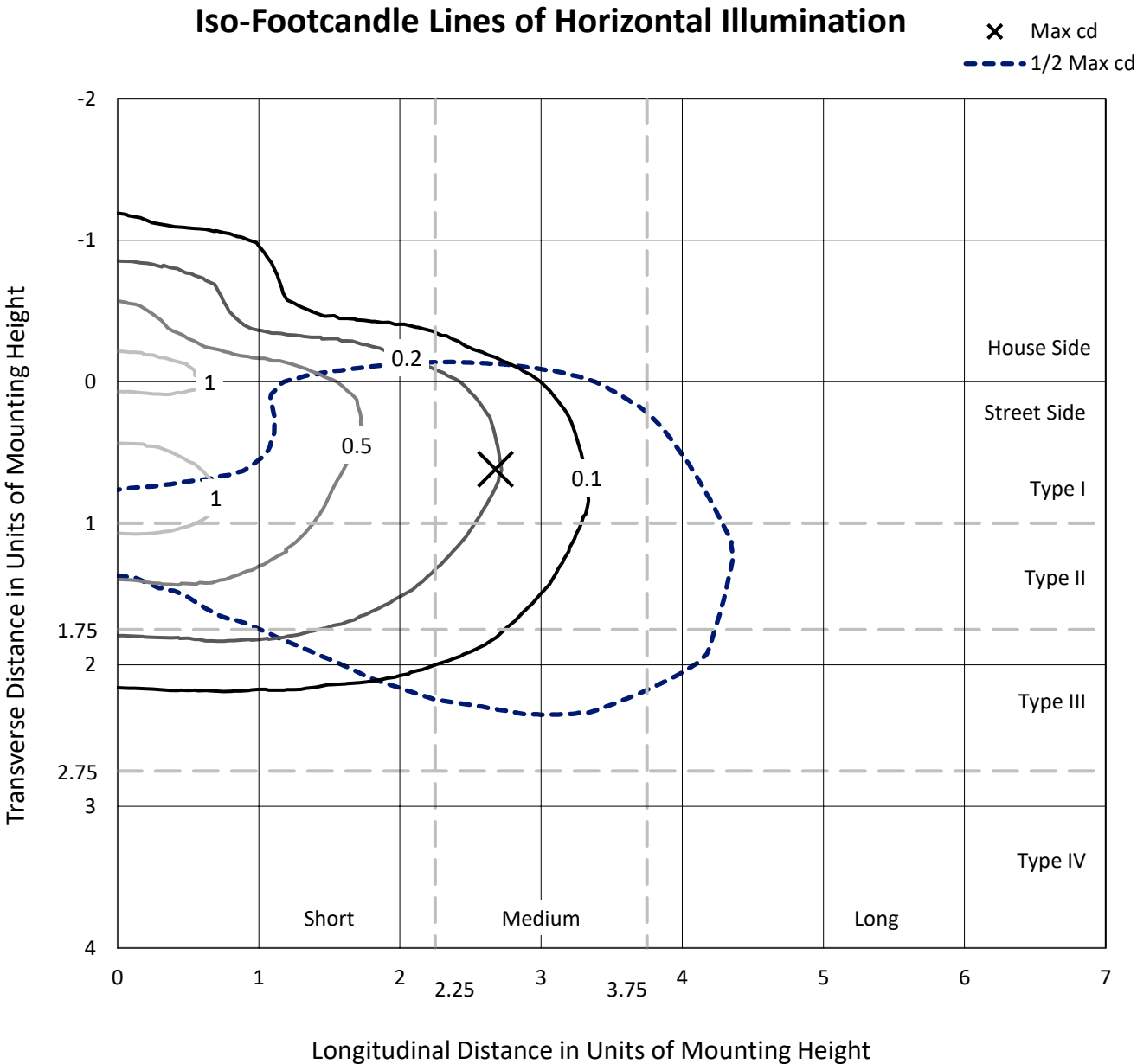
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4995.9 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - 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



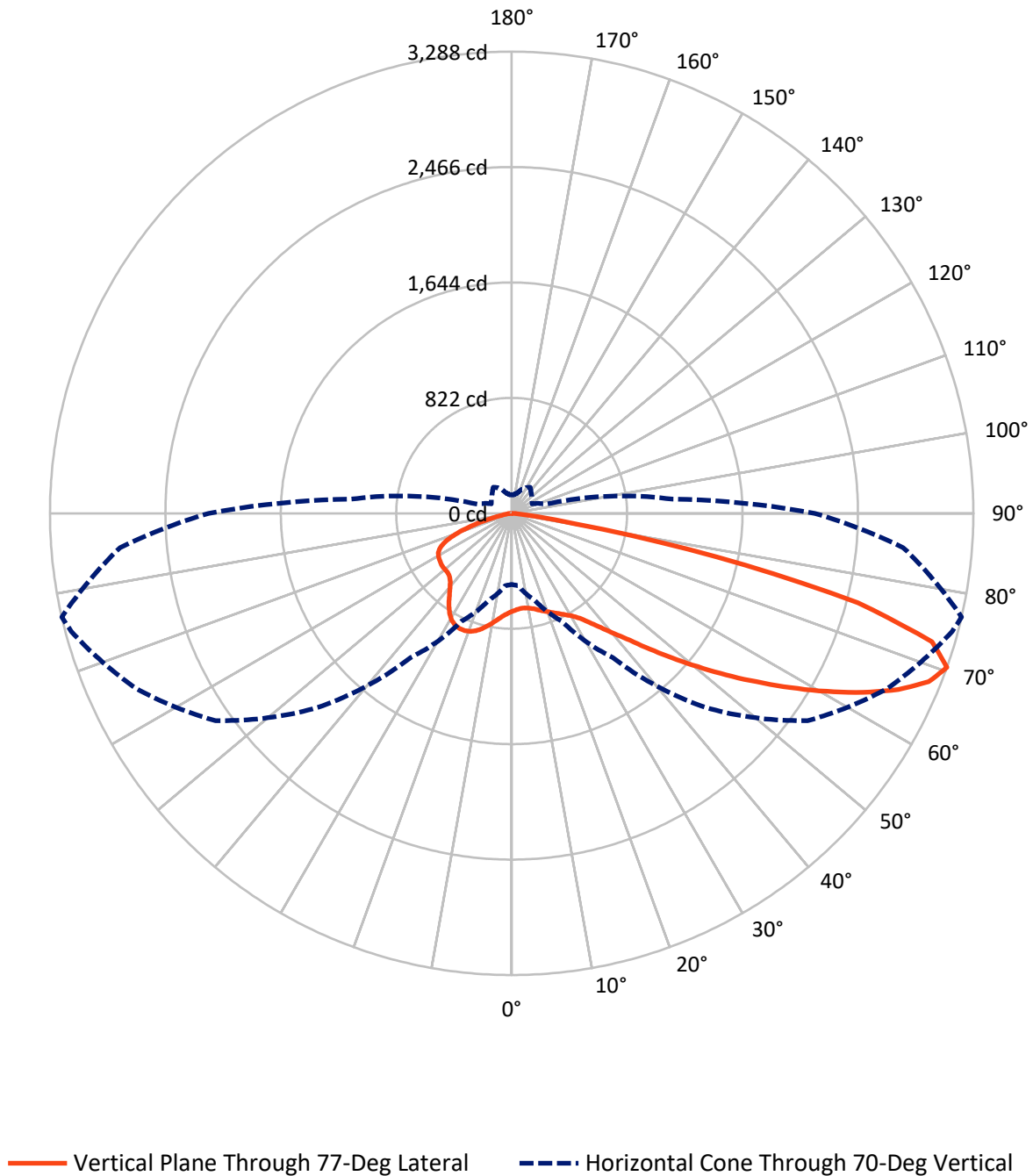
REPORT NUMBER: P959336
CATALOG NUMBER: NAV-SB1A-740-U-T3R



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Medium - N/A

REPORT NUMBER: P959336
CATALOG NUMBER: NAV-SB1A-740-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P959336

CATALOG NUMBER: NAV-SB1A-740-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1094.0	0.0	1094.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3901.8	0.0	3901.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	4995.9	0.0	4995.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.3
10°-20°	191.8	3.8
20°-30°	328.1	6.6
30°-40°	527.6	10.6
40°-50°	823.7	16.5
50°-60°	1100.3	22.0
60°-70°	1172.7	23.5
70°-80°	721.9	14.5
80°-90°	63.3	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°	4995.9	100.0
0°-180°	4995.9	100.0

Coefficient of Utilization



REPORT NUMBER: P959336

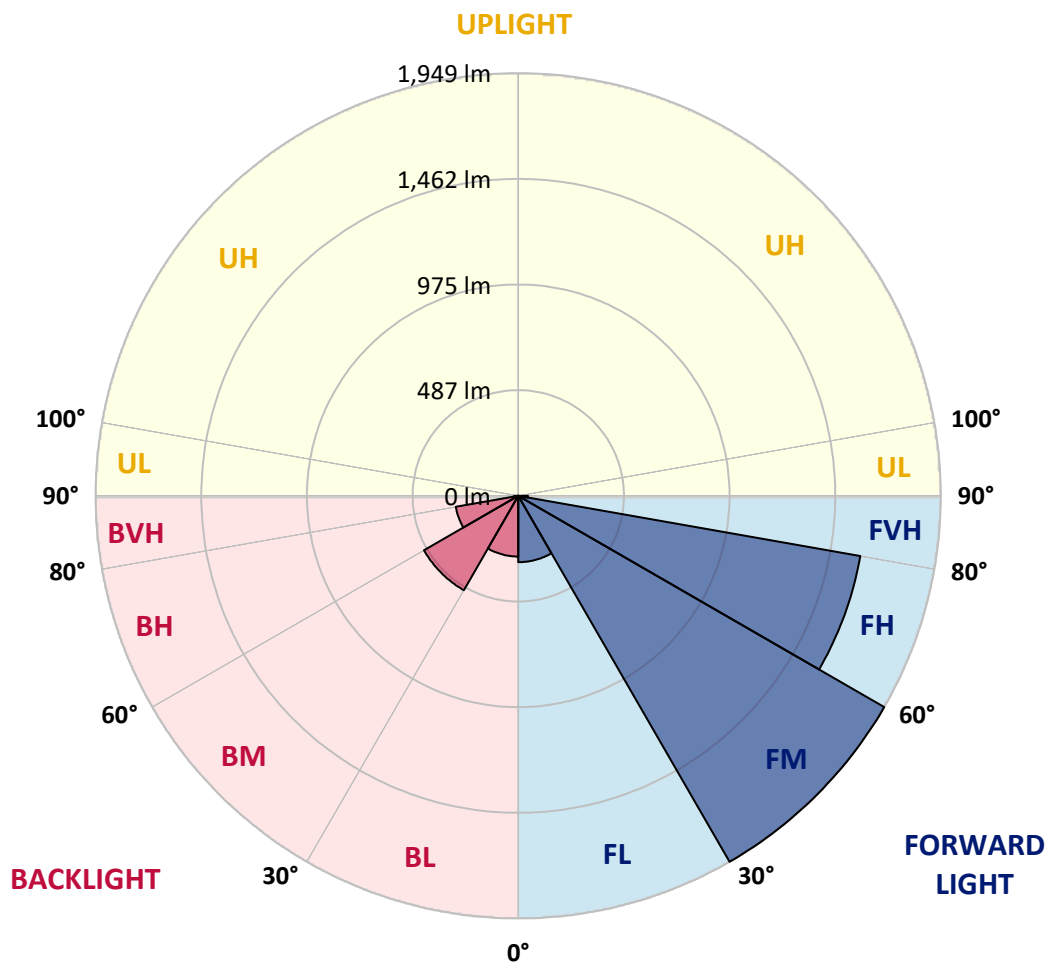
CATALOG NUMBER: NAV-SB1A-740-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.1	6.1			
FM	(30°-60°)	1949.3	39.0			
FH	(60°-80°)	1602.3	32.1			G1/1800
FVH	(80°-90°)	44.2	0.9			G1/100
BL	(0°-30°)	280.3	5.6	B1/500		
BM	(30°-60°)	502.3	10.1	B1/1000		
BH	(60°-80°)	292.4	5.9	B1/500		G1/500
BVH	(80°-90°)	19.0	0.4			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 III Medium



REPORT NUMBER: P959336

CATALOG NUMBER: NAV-SB1A-740-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	642.5	642.2	645.5	646.6	652.7	657.0	665.2	673.9	685.2	686.4	693.4
5°	605.4	605.4	609.2	613.3	621.3	630.0	642.5	657.5	677.0	680.1	697.2
7.5°	573.9	575.9	579.2	587.2	596.4	609.0	628.1	649.6	675.2	680.1	707.8
10°	548.6	550.8	554.9	561.4	575.1	592.6	617.7	645.2	679.6	687.3	723.0
12.5°	540.6	542.9	545.2	550.1	562.9	583.3	613.3	647.3	690.0	697.7	744.0
15°	559.0	561.9	560.1	558.8	565.5	584.1	615.3	654.8	703.2	714.1	769.9
17.5°	601.6	602.6	598.5	586.4	585.4	595.4	625.0	665.0	719.4	731.5	796.0
20°	670.1	668.3	659.9	636.1	622.5	620.4	641.6	680.3	736.4	749.2	824.1
22.5°	763.2	761.2	744.3	706.7	676.5	656.5	665.7	700.3	755.3	769.7	851.5
25°	879.3	876.6	851.8	800.6	753.8	704.4	698.5	726.6	778.6	791.9	880.2
27.5°	1015.0	1012.7	985.8	918.3	850.7	769.9	739.2	757.6	802.9	817.9	912.4
30°	1160.8	1167.5	1119.9	1047.2	961.8	855.4	794.0	795.7	834.4	847.9	951.5
32.5°	1332.3	1343.8	1286.5	1194.3	1077.7	948.2	863.0	848.9	880.2	891.4	1000.9
35°	1502.1	1515.3	1467.6	1365.8	1231.4	1057.7	935.2	910.1	941.1	953.4	1066.4
37.5°	1649.0	1666.4	1641.8	1553.3	1395.9	1189.7	1029.3	982.0	1016.0	1031.4	1154.5
40°	1764.9	1791.5	1789.8	1734.5	1589.9	1349.9	1148.8	1070.8	1109.2	1125.8	1261.2
42.5°	1859.0	1882.1	1902.1	1899.2	1792.3	1531.9	1289.2	1186.1	1215.3	1234.5	1381.2
45°	1924.0	1948.6	1991.6	2037.9	1987.1	1726.5	1450.3	1323.1	1349.7	1378.6	1524.2
47.5°	1982.1	2010.0	2065.8	2139.3	2152.3	1922.1	1626.5	1482.5	1506.7	1536.7	1667.7
50°	1987.3	2011.4	2097.8	2201.9	2269.8	2109.9	1815.9	1661.3	1684.1	1716.1	1821.5
52.5°	1863.7	1901.6	2052.6	2200.2	2323.8	2266.9	2003.9	1847.4	1872.9	1911.3	1980.6
55°	1446.7	1502.1	1919.7	2131.6	2304.5	2368.5	2182.7	2045.1	2077.9	2118.1	2140.8
57.5°	1246.1	1270.4	1523.9	2006.7	2217.1	2394.9	2333.7	2245.0	2297.6	2341.6	2310.1
60°	1119.9	1140.1	1290.1	1812.5	2101.9	2353.2	2450.4	2431.2	2522.3	2574.7	2483.4
62.5°	984.8	1004.0	1140.4	1513.4	1954.6	2283.8	2524.1	2603.1	2752.5	2809.8	2646.7
65°	850.7	867.2	997.8	1271.6	1767.2	2214.5	2562.2	2751.8	2965.7	3025.1	2782.3
67.5°	701.3	714.8	838.4	1072.9	1539.6	2119.6	2581.2	2868.8	3151.2	3202.1	2849.3
70°	506.1	516.6	644.2	848.4	1253.7	1956.3	2573.5	2951.6	3247.4	3288.1	2798.7
72.5°	239.2	248.7	398.6	550.8	885.5	1638.6	2418.2	2885.9	3149.6	3129.4	2488.5
75°	127.7	135.8	229.0	302.2	467.7	1123.2	1978.9	2485.9	2644.8	2546.6	1839.2
77.5°	86.5	92.9	141.8	181.4	213.6	533.2	1271.9	1721.2	1655.9	1493.7	921.1
80°	68.6	75.2	116.1	122.8	103.3	192.7	525.5	796.7	572.4	457.8	262.0
82.5°	52.7	60.2	97.8	89.1	56.3	79.0	153.0	252.0	146.6	111.5	63.4
85°	32.3	40.2	76.8	56.8	31.8	36.1	52.0	70.1	44.8	37.3	22.8
87.5°	16.4	23.1	38.8	20.7	14.3	8.4	13.8	13.8	11.8	10.2	5.8
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: P959336

CATALOG NUMBER: NAV-SB1A-740-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0	697.0
2.5°	699.6	704.7	713.3	721.5	728.0	734.1	740.3	743.5	744.6	748.7	750.9
5°	707.8	717.2	734.1	749.9	759.9	766.1	770.4	773.0	773.5	774.8	776.7
7.5°	722.8	737.9	761.5	777.3	784.7	784.2	782.4	776.0	773.5	771.2	771.7
10°	744.0	764.0	792.9	803.9	799.3	787.0	771.2	752.5	743.7	735.3	732.8
12.5°	770.4	795.7	824.1	823.6	800.8	769.4	732.6	703.9	685.7	672.7	669.6
15°	802.4	831.6	853.3	835.9	786.0	729.5	675.5	638.2	621.8	607.4	605.9
17.5°	835.4	866.6	876.6	832.1	748.7	670.3	609.2	579.7	563.6	556.0	558.3
20°	867.7	898.6	890.4	810.1	691.9	603.3	548.8	532.7	529.4	531.2	530.4
22.5°	901.7	929.3	893.2	767.6	619.4	534.7	504.8	505.3	512.7	518.1	519.4
25°	936.4	955.1	885.8	706.2	541.6	484.3	476.9	485.1	499.7	510.1	513.0
27.5°	970.0	978.2	869.7	630.2	474.9	448.2	449.6	466.5	488.4	503.1	506.6
30°	1007.9	998.7	838.8	544.7	428.6	417.3	428.0	447.7	469.8	482.8	485.8
32.5°	1050.5	1016.3	789.6	465.7	395.9	392.5	410.1	422.9	432.7	436.5	438.6
35°	1103.8	1041.1	726.6	410.1	366.4	374.3	391.2	384.8	381.0	378.9	381.0
37.5°	1172.9	1074.6	652.9	374.0	342.6	361.3	368.2	348.2	333.1	325.7	327.5
40°	1256.0	1123.7	582.1	346.1	327.5	350.0	337.9	314.0	294.8	284.2	285.1
42.5°	1348.4	1175.2	522.4	325.2	319.1	340.8	315.7	287.1	256.1	252.8	256.1
45°	1445.4	1228.2	481.7	309.0	315.0	332.9	303.0	256.7	234.6	248.2	255.3
47.5°	1542.3	1276.7	457.3	297.0	312.9	323.9	291.7	239.7	224.2	243.8	253.1
50°	1650.4	1320.2	446.2	288.3	310.6	320.3	274.8	235.4	213.1	226.2	236.0
52.5°	1757.5	1354.0	438.1	279.6	307.3	317.5	266.6	230.3	199.9	200.6	205.9
55°	1864.5	1376.1	429.1	268.1	299.9	311.4	265.9	224.7	189.8	186.2	188.8
57.5°	1978.6	1388.6	418.1	255.3	287.1	295.8	265.1	220.3	186.8	180.9	181.6
60°	2094.7	1407.0	403.7	239.7	270.0	277.1	263.3	218.7	185.0	175.0	175.8
62.5°	2198.8	1413.4	386.6	224.9	247.9	258.7	259.4	217.5	180.1	163.0	163.0
65°	2267.2	1385.7	356.7	208.0	224.2	239.7	252.0	213.1	171.4	154.3	154.3
67.5°	2264.3	1307.0	309.9	186.2	201.1	218.7	241.3	205.7	160.9	143.5	144.3
70°	2159.0	1151.4	250.5	160.9	175.8	196.3	227.4	194.7	148.4	131.8	133.4
72.5°	1851.7	901.2	181.9	131.3	146.4	172.9	209.5	181.4	135.6	121.3	120.5
75°	1322.8	570.3	123.3	100.9	113.9	146.6	187.3	165.8	123.8	121.8	114.9
77.5°	675.7	272.4	81.6	73.7	79.3	115.6	157.3	148.1	125.7	100.6	89.6
80°	219.8	100.6	51.5	50.1	52.7	77.0	121.8	121.6	95.2	68.3	60.4
82.5°	70.1	43.3	33.5	32.3	31.0	48.4	85.0	96.2	64.3	43.3	42.9
85°	27.9	25.8	19.7	18.1	13.0	22.8	44.5	64.0	47.9	31.3	32.0
87.5°	10.2	10.2	5.3	3.8	2.8	7.7	12.0	19.2	27.4	16.1	15.9
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)