

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: P960488

Luminaire Tested: **NAV-SB1C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960488
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-SB1C-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6664.5 lumens
Efficiency: N/A
Efficacy: 122.5 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): 54.4
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



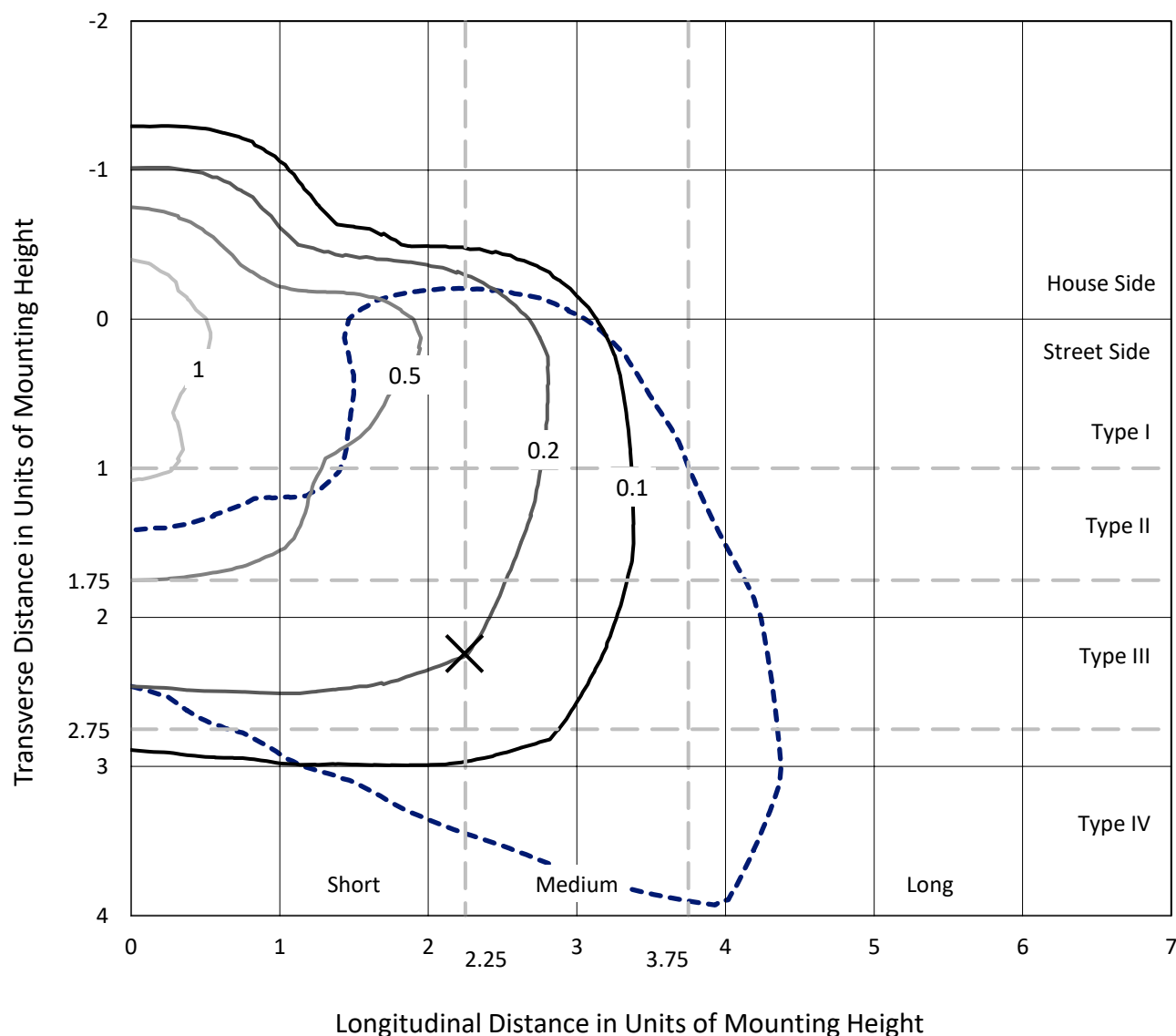
REPORT NUMBER: P960488

CATALOG NUMBER: NAV-SB1C-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

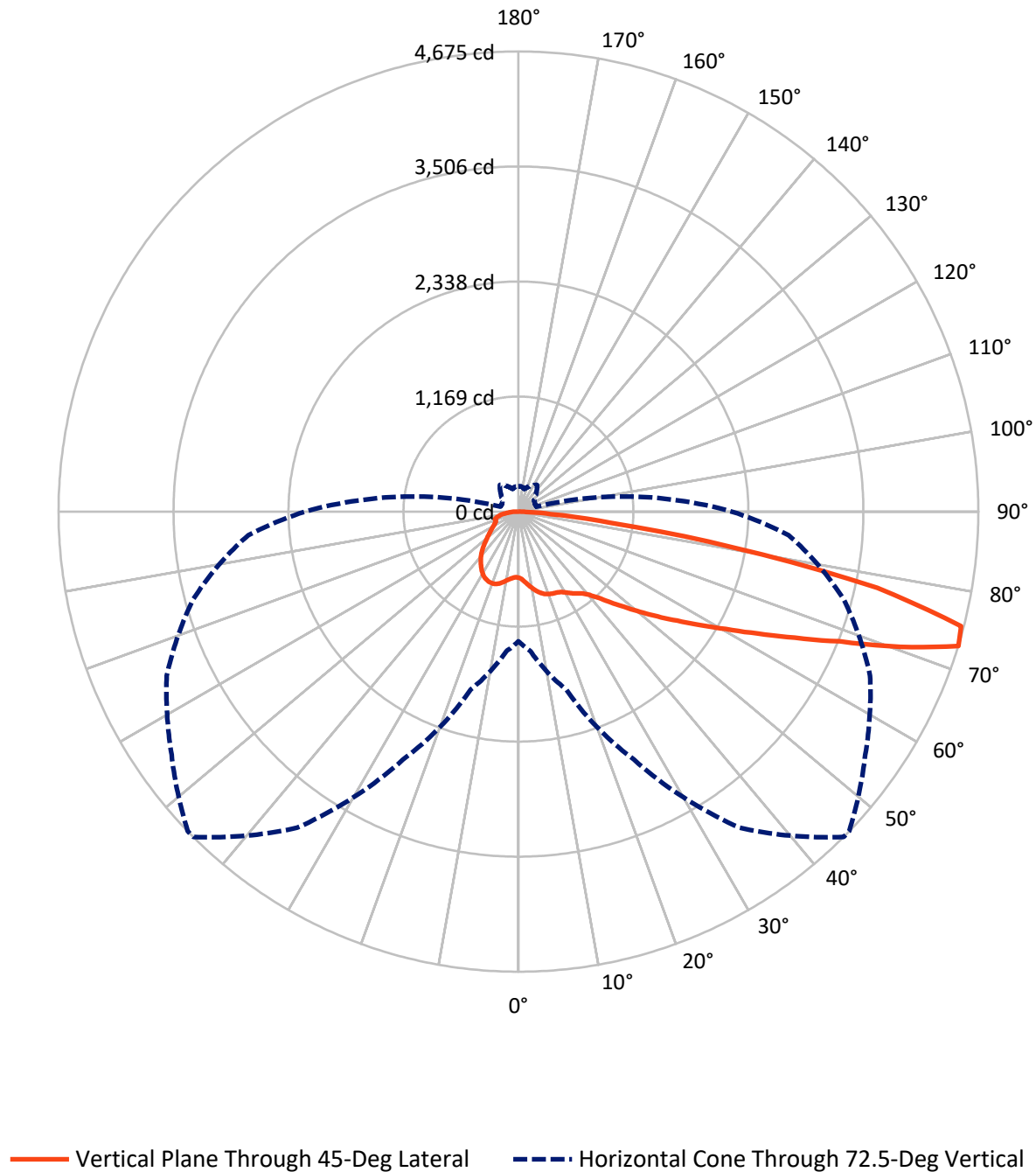


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc

Type IV - Short - N/A

REPORT NUMBER: P960488
CATALOG NUMBER: NAV-SB1C-827-U-T4W

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.6	0.0	1506.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5157.9	0.0	5157.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	6664.5	0.0	6664.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.0
10°-20°	228.2	3.4
20°-30°	396.9	6.0
30°-40°	569.0	8.5
40°-50°	801.1	12.0
50°-60°	1227.1	18.4
60°-70°	1777.6	26.7
70°-80°	1419.5	21.3
80°-90°	176.8	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°	6664.5	100.0
0°-180°	6664.5	100.0

Coefficient of Utilization



REPORT NUMBER: P960488

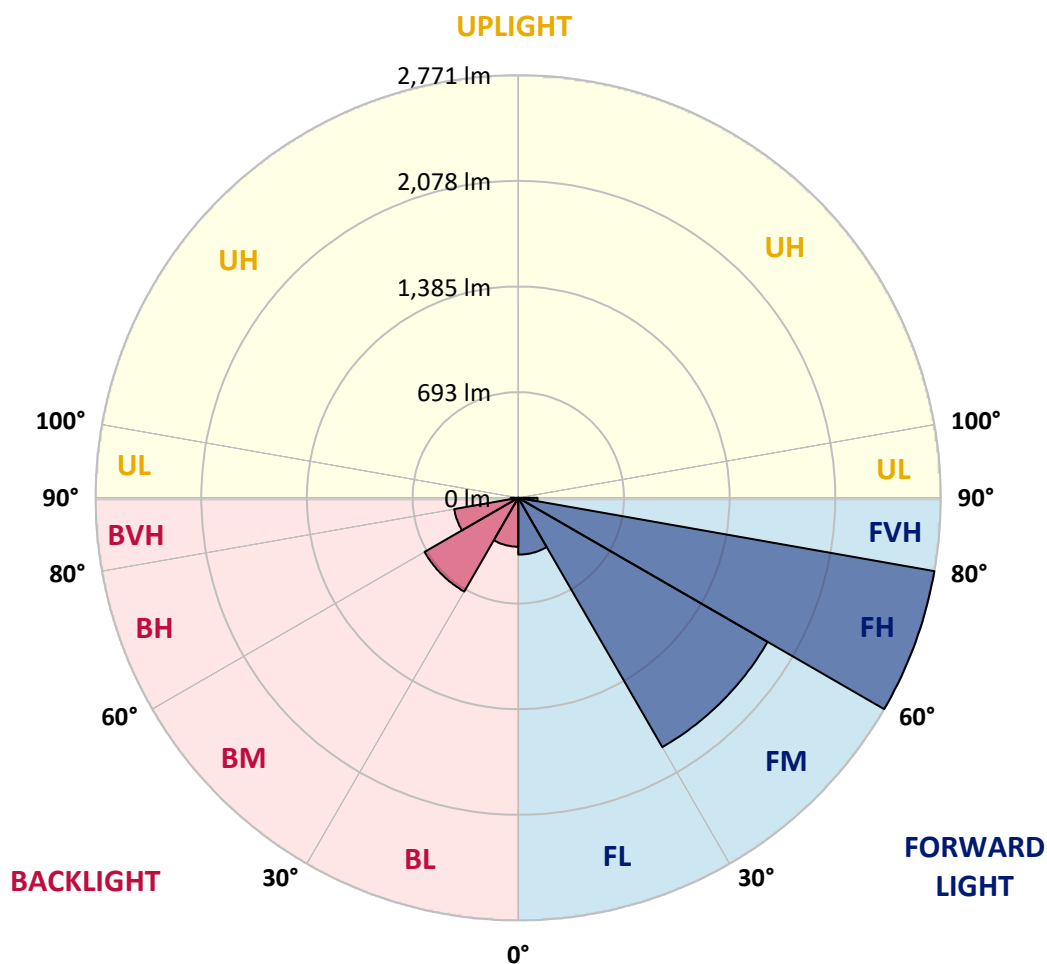
CATALOG NUMBER: NAV-SB1C-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.7	5.6			
FM	(30°-60°)	1887.7	28.3			
FH	(60°-80°)	2770.6	41.6			G2/5000
FVH	(80°-90°)	126.8	1.9			G2/225
BL	(0°-30°)	320.8	4.8	B1/500		
BM	(30°-60°)	709.4	10.6	B1/1000		
BH	(60°-80°)	426.5	6.4	B1/500		G1/500
BVH	(80°-90°)	50.0	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



REPORT NUMBER: P960488

CATALOG NUMBER: NAV-SB1C-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	698.6	703.3	699.0	695.2	693.4	688.8	688.5	685.6	683.9	679.0	677.6
5°	747.4	753.4	746.4	738.7	731.6	720.5	719.0	710.9	701.8	691.3	685.3
7.5°	802.6	807.8	799.8	788.2	775.9	757.3	757.0	742.2	727.7	709.9	699.7
10°	850.6	857.7	846.9	831.0	815.6	794.5	792.0	775.2	757.0	733.8	718.3
12.5°	893.2	898.1	887.5	868.3	850.3	829.2	826.0	807.5	787.1	760.8	741.2
15°	926.9	933.2	919.1	898.4	879.4	858.7	856.0	839.1	818.8	791.0	765.7
17.5°	948.9	954.3	939.8	916.7	898.4	881.2	879.1	865.1	847.2	819.1	792.0
20°	957.5	963.0	947.9	924.4	907.5	894.2	893.2	882.9	870.6	845.0	817.6
22.5°	965.9	971.1	951.4	926.9	912.1	903.6	903.3	896.7	891.7	870.6	844.0
25°	999.9	1001.3	975.0	939.5	918.4	911.0	910.7	910.4	912.5	896.0	872.5
27.5°	1029.4	1029.0	1006.6	973.2	940.5	925.1	924.8	928.2	934.9	921.3	901.9
30°	1072.6	1068.7	1042.0	1007.3	977.4	953.6	951.4	948.2	953.6	942.7	931.4
32.5°	1164.2	1151.9	1108.7	1046.9	1008.0	989.7	986.9	967.2	969.3	962.7	957.0
35°	1295.5	1279.3	1221.8	1122.1	1045.9	1019.9	1018.4	993.5	989.3	983.4	985.5
37.5°	1451.7	1431.7	1364.7	1230.9	1111.2	1055.0	1052.9	1030.4	1013.2	1006.9	1018.8
40°	1608.6	1583.4	1527.9	1363.6	1207.3	1113.7	1107.0	1072.9	1053.3	1042.7	1067.9
42.5°	1761.1	1739.9	1692.6	1512.5	1326.0	1199.2	1184.6	1126.3	1111.5	1101.7	1147.4
45°	1895.8	1876.9	1842.1	1671.5	1465.0	1315.9	1301.4	1206.3	1201.7	1201.7	1267.7
47.5°	2005.4	2001.2	1964.3	1833.7	1629.0	1448.5	1423.6	1317.6	1329.9	1348.9	1438.7
50°	2126.9	2115.3	2075.9	1993.4	1821.7	1600.5	1580.2	1454.2	1500.2	1552.2	1685.9
52.5°	2238.5	2244.9	2201.0	2159.9	2039.4	1770.2	1734.3	1615.3	1714.7	1800.7	1975.6
55°	2353.3	2353.7	2341.4	2335.8	2267.6	1957.6	1918.3	1809.1	1967.1	2073.9	2313.3
57.5°	2461.1	2461.7	2480.1	2529.6	2532.4	2173.9	2129.3	2047.1	2247.6	2356.5	2661.5
60°	2557.3	2562.2	2612.0	2727.9	2765.1	2421.8	2379.6	2328.4	2537.6	2647.2	3027.7
62.5°	2589.6	2607.5	2718.4	2883.1	2995.0	2725.8	2684.4	2653.8	2842.3	2944.2	3333.9
65°	2534.8	2575.9	2790.4	3011.2	3231.7	3087.1	3046.0	3012.7	3159.0	3254.9	3585.2
67.5°	2400.3	2453.3	2786.2	3145.7	3518.9	3521.7	3483.5	3405.2	3498.5	3535.4	3667.0
70°	2046.1	2125.4	2540.8	3196.0	3848.6	4116.1	4079.2	3877.7	3837.3	3658.9	3436.7
72.5°	1318.4	1425.1	1870.9	2782.7	3922.0	4675.3	4673.3	4304.3	3944.4	3418.9	2756.3
75°	481.0	546.3	869.3	1746.6	3292.1	4646.9	4660.6	4231.2	3600.7	2640.8	1717.2
77.5°	175.2	191.7	283.7	671.3	2024.7	3728.5	3756.9	3382.7	2562.9	1325.3	680.4
80°	91.9	101.1	145.3	260.5	867.6	2214.3	2258.9	2010.3	1204.6	399.1	204.0
82.5°	50.9	55.1	81.5	141.4	390.7	946.9	973.5	794.2	423.7	169.2	84.3
85°	27.4	29.1	38.2	77.3	191.0	328.3	335.6	237.3	168.9	99.3	40.7
87.5°	8.1	9.8	12.6	24.6	74.8	73.7	75.4	47.0	66.7	50.2	13.3
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: P960488

CATALOG NUMBER: NAV-SB1C-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	675.5	674.4	670.6	668.8	666.7	666.4	668.1	668.5	668.8	669.1	670.6
5°	681.8	678.2	674.8	672.7	673.4	673.7	677.2	679.7	681.4	682.9	683.6
7.5°	694.1	691.3	685.3	685.0	686.0	689.2	693.7	699.4	702.5	705.0	705.7
10°	712.4	707.0	700.1	701.1	703.3	707.8	717.3	721.8	727.1	731.6	730.6
12.5°	730.9	726.4	718.3	719.0	722.5	730.6	739.7	745.4	748.9	752.3	753.8
15°	755.2	747.1	738.3	738.3	744.7	753.4	757.7	762.2	764.3	768.1	769.6
17.5°	780.1	769.6	758.0	757.3	765.1	769.3	771.7	772.3	773.1	777.3	778.7
20°	805.0	793.5	776.9	775.5	777.3	776.6	776.2	775.5	776.6	781.9	783.9
22.5°	829.6	816.3	793.5	787.1	782.2	775.5	775.2	774.8	775.5	780.8	784.3
25°	858.4	842.2	811.7	792.7	776.2	767.1	768.1	768.5	769.3	773.5	779.1
27.5°	889.6	871.8	828.5	791.0	761.2	754.8	753.1	754.1	756.6	763.2	769.9
30°	920.9	899.8	844.0	783.9	742.2	733.4	727.7	730.2	738.0	744.7	752.0
32.5°	949.4	928.2	856.3	768.5	718.0	704.3	696.9	700.1	707.8	710.2	719.0
35°	982.7	958.8	861.5	743.9	691.7	670.6	660.7	656.2	660.0	657.5	665.3
37.5°	1019.9	995.0	860.9	711.7	660.7	636.5	622.8	605.6	597.6	589.1	594.4
40°	1075.0	1039.2	852.4	672.7	622.5	600.3	575.7	546.6	528.4	511.9	512.9
42.5°	1150.2	1100.6	837.0	629.9	579.3	558.5	525.2	491.2	462.4	435.0	432.6
45°	1262.2	1181.0	817.6	584.2	532.6	512.2	476.1	437.8	405.2	370.0	365.8
47.5°	1423.6	1289.1	799.4	532.3	483.4	464.8	432.1	396.7	358.1	324.0	320.2
50°	1645.5	1444.3	782.6	481.6	435.0	421.0	394.9	358.9	319.8	292.4	290.7
52.5°	1927.8	1655.4	775.5	432.9	389.7	384.5	363.8	330.0	293.2	270.0	268.2
55°	2251.8	1907.8	775.5	386.2	350.0	351.8	337.4	306.2	274.2	253.5	251.3
57.5°	2582.6	2163.4	761.5	343.0	316.3	323.7	314.6	287.2	258.4	237.0	233.5
60°	2887.3	2377.5	704.6	303.7	286.5	298.1	292.1	268.5	233.5	215.6	212.8
62.5°	3121.4	2498.3	595.1	272.4	261.9	275.2	272.1	244.1	228.9	221.5	219.0
65°	3238.7	2478.7	455.0	244.7	241.2	261.9	255.2	254.2	242.2	233.8	231.0
67.5°	3166.7	2309.4	330.0	224.4	229.3	249.6	275.2	279.4	257.4	240.9	238.0
70°	2851.1	2003.3	245.8	205.0	214.1	250.0	313.9	292.4	252.5	233.1	230.0
72.5°	2169.0	1493.8	190.6	184.7	194.5	251.7	331.1	286.5	238.4	257.7	255.6
75°	1240.4	820.1	153.0	159.7	169.9	235.2	322.3	271.0	227.6	236.7	236.7
77.5°	472.9	315.3	126.4	135.2	136.5	205.4	308.2	270.0	216.6	211.4	192.7
80°	164.0	123.2	104.7	107.4	105.7	182.6	295.6	234.8	177.3	158.7	153.4
82.5°	67.0	61.4	82.8	79.3	75.1	141.9	238.7	192.1	145.0	128.1	126.7
85°	29.1	38.9	54.7	48.1	43.6	98.3	191.4	162.6	122.5	105.7	105.4
87.5°	5.9	14.8	23.2	21.7	22.4	65.7	135.9	115.5	86.7	65.0	50.9
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)