

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: P960486

Luminaire Tested: **NAV-SB1C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6600 lumens
Efficiency: N/A
Efficacy: 121.3 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



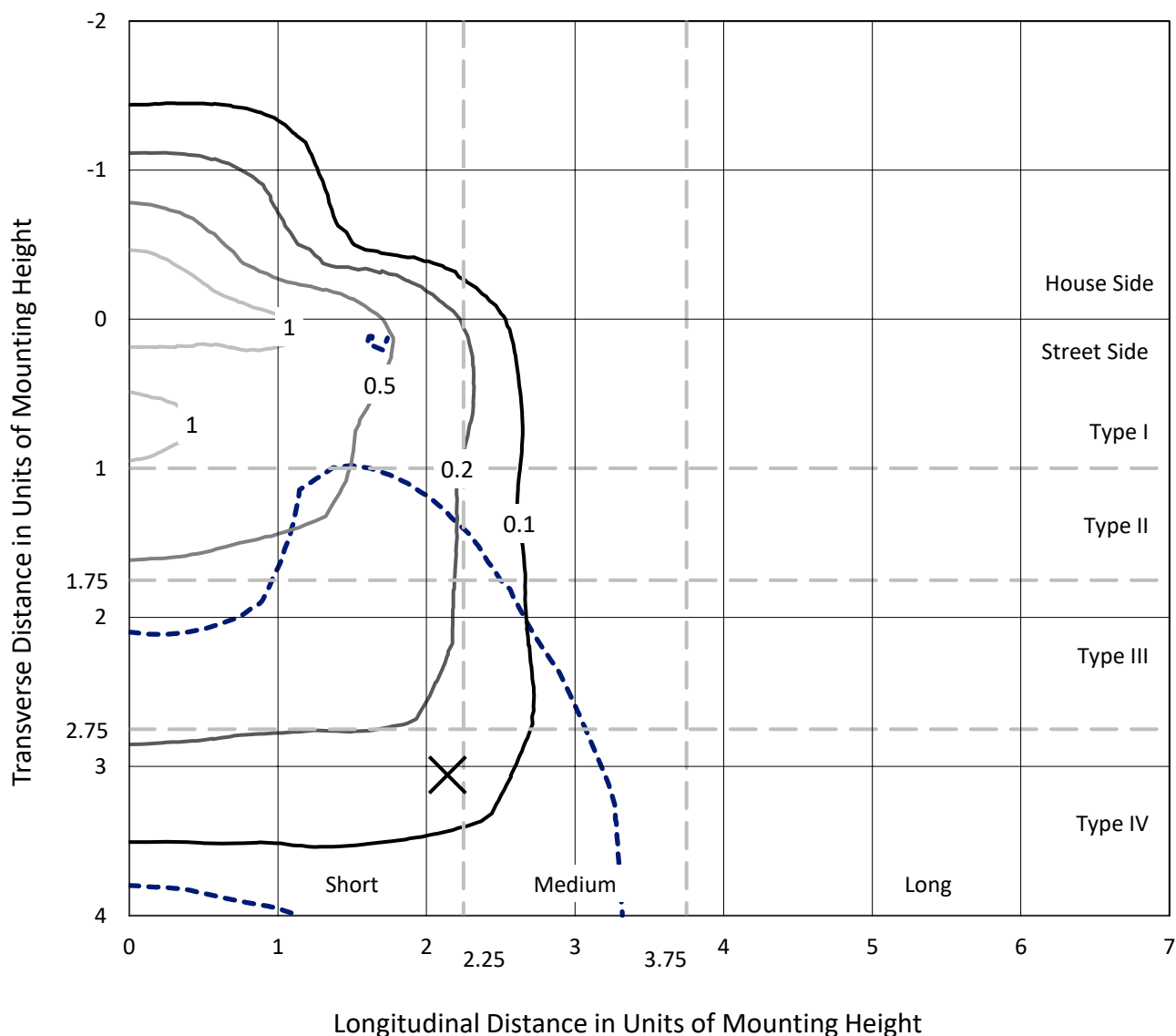
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

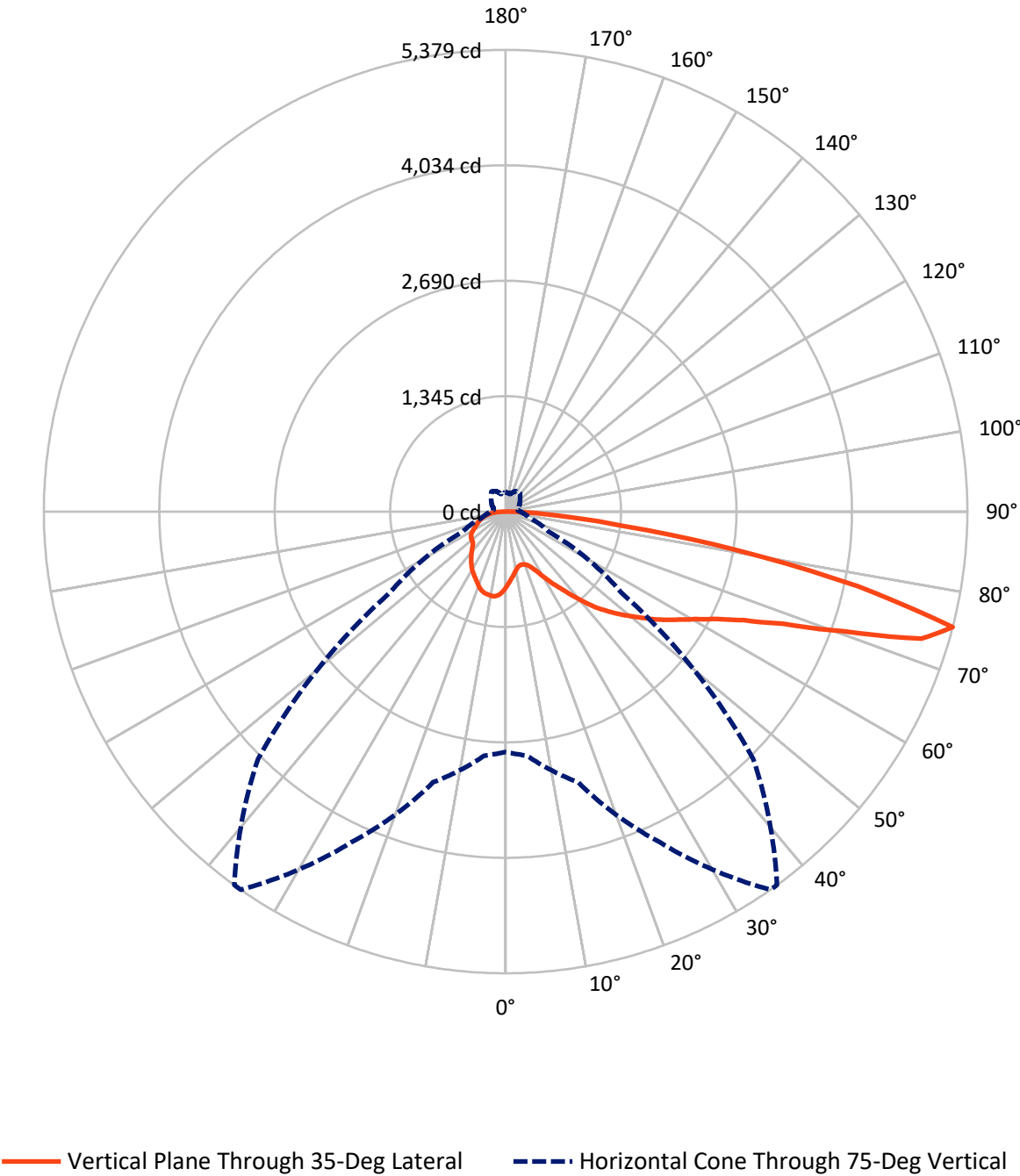


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

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	1570.6	0.0	1570.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5029.3	0.0	5029.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	6600.0	0.0	6600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.3
10°-20°	240.2	3.6
20°-30°	403.3	6.1
30°-40°	626.8	9.5
40°-50°	930.4	14.1
50°-60°	1284.5	19.5
60°-70°	1558.4	23.6
70°-80°	1287.9	19.5
80°-90°	185.2	2.8
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°	6600.0	100.0
0°-180°	6600.0	100.0

Coefficient of Utilization



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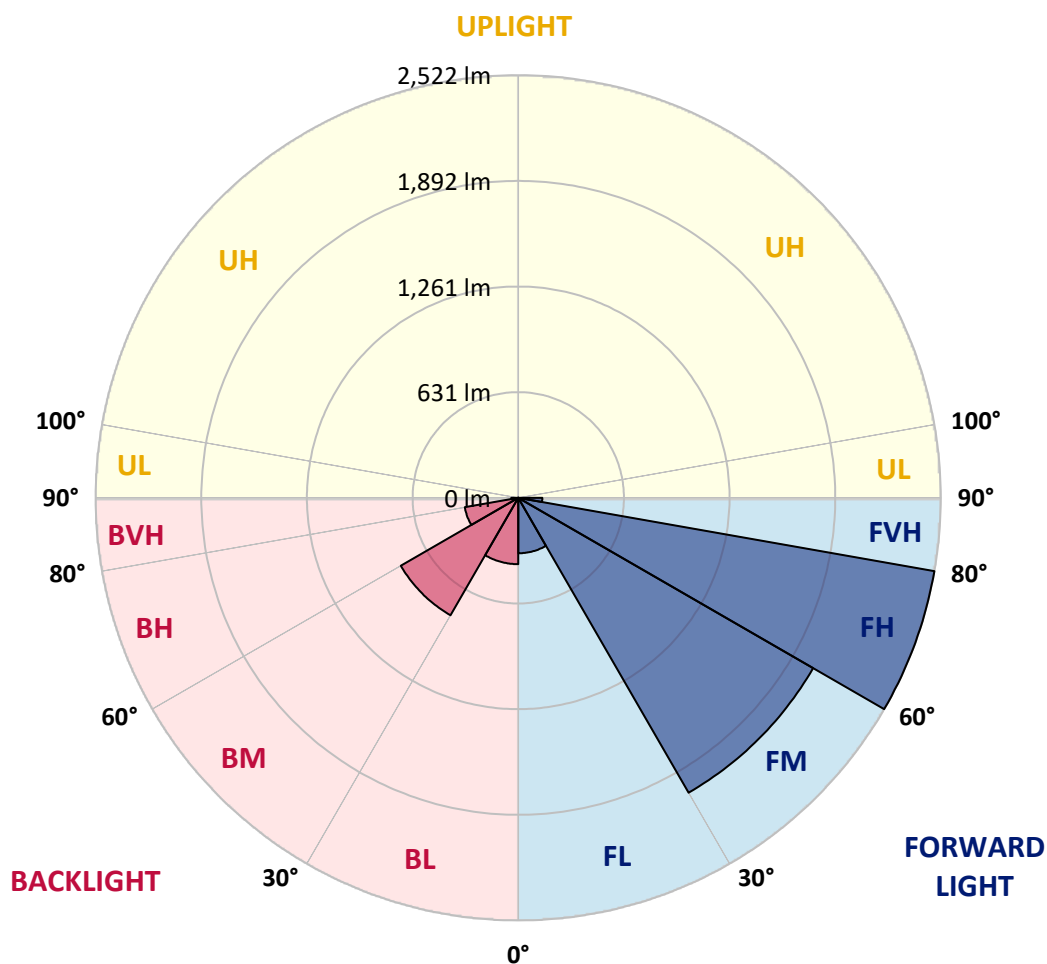
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.0	5.0			
FM	(30°-60°)	2032.4	30.8			
FH	(60°-80°)	2522.4	38.2			G2/5000
FVH	(80°-90°)	143.5	2.2			G2/225
BL	(0°-30°)	395.8	6.0	B1/500		
BM	(30°-60°)	809.3	12.3	B1/1000		
BH	(60°-80°)	323.8	4.9	B1/500		G1/500
BVH	(80°-90°)	41.7	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4
2.5°	811.0	816.0	818.2	817.0	822.4	821.6	829.2	838.4	851.3	863.8	882.0
5°	748.6	753.9	758.5	762.8	773.2	776.3	788.1	806.0	829.5	853.4	883.4
7.5°	690.4	695.1	702.1	710.0	727.5	730.7	750.3	778.2	811.0	845.9	887.3
10°	643.0	647.6	655.1	664.0	685.7	689.7	714.6	751.7	794.6	838.9	891.6
12.5°	622.6	624.0	628.3	637.2	656.1	658.7	686.1	728.6	778.5	833.4	898.0
15°	621.6	624.4	624.7	629.3	645.0	646.2	671.5	713.6	768.5	832.4	907.6
17.5°	632.2	634.4	631.2	634.1	647.2	649.0	669.0	706.4	765.4	837.0	924.1
20°	660.8	662.6	652.9	649.0	658.7	660.1	679.7	711.0	768.5	846.6	946.6
22.5°	721.4	722.5	698.9	682.9	683.6	684.3	701.4	730.0	781.0	864.2	975.1
25°	816.0	815.3	777.8	746.8	728.9	725.0	736.5	760.7	802.1	887.3	1011.9
27.5°	926.6	921.3	883.8	837.4	798.5	792.8	790.3	800.6	832.0	918.0	1056.8
30°	1051.4	1046.4	1006.1	945.5	891.6	882.3	858.8	853.4	876.7	959.8	1119.3
32.5°	1188.5	1185.3	1137.1	1063.6	991.5	980.8	941.3	926.9	945.2	1023.0	1206.3
35°	1303.4	1300.5	1260.5	1184.9	1096.8	1083.5	1043.2	1027.2	1036.5	1103.9	1320.1
37.5°	1407.2	1405.8	1371.6	1311.9	1221.0	1204.9	1159.6	1154.3	1152.4	1210.6	1458.2
40°	1503.5	1500.0	1464.3	1432.8	1365.4	1350.8	1310.9	1306.3	1292.6	1341.9	1614.5
42.5°	1610.2	1600.9	1549.2	1534.5	1516.4	1504.2	1480.3	1481.0	1451.1	1489.9	1780.0
45°	1697.3	1691.9	1638.8	1630.2	1649.8	1644.8	1665.5	1670.9	1612.7	1645.1	1952.0
47.5°	1790.8	1785.8	1740.8	1734.7	1787.9	1789.3	1862.4	1864.3	1770.4	1806.5	2124.3
50°	1906.0	1898.8	1854.2	1861.7	1921.4	1926.7	2060.5	2048.4	1915.6	1970.2	2295.3
52.5°	1981.9	1986.2	1976.6	1988.8	2070.1	2075.1	2255.3	2224.2	2059.4	2131.8	2463.0
55°	2038.0	2046.5	2076.5	2104.3	2227.1	2232.0	2439.0	2391.5	2178.5	2281.6	2620.6
57.5°	2110.1	2098.0	2153.9	2208.2	2376.3	2389.5	2617.7	2552.9	2284.2	2410.8	2728.8
60°	2213.5	2205.0	2248.5	2328.8	2543.2	2564.2	2806.9	2698.1	2361.6	2513.2	2749.8
62.5°	2423.3	2401.9	2408.8	2479.7	2753.8	2781.5	3020.3	2824.7	2400.1	2553.2	2637.0
65°	2737.0	2700.2	2665.9	2715.2	3050.2	3077.7	3261.0	2924.2	2385.9	2475.8	2337.7
67.5°	3131.9	3095.5	3053.4	3099.8	3486.9	3508.7	3558.3	2980.3	2273.4	2177.5	1808.6
70°	3457.6	3444.1	3494.4	3685.3	4184.5	4185.2	3939.4	2933.9	1965.5	1543.9	1046.4
72.5°	3414.5	3406.3	3671.3	4261.5	5063.6	5044.6	4300.1	2582.8	1324.1	696.5	392.2
75°	2801.1	2854.3	3265.0	4251.2	5379.3	5376.8	4079.2	1641.9	547.7	288.6	202.6
77.5°	1502.1	1586.3	2119.7	3138.7	4199.4	4262.6	2867.8	574.4	235.1	184.8	140.2
80°	489.8	563.3	844.9	1598.1	2728.8	2717.0	1229.2	225.5	160.9	130.9	97.1
82.5°	208.0	216.6	377.5	754.6	1400.5	1378.6	391.4	129.6	113.1	89.6	60.0
85°	81.4	91.0	166.7	348.9	606.6	593.4	141.2	64.3	72.5	58.5	35.7
87.5°	26.8	32.5	59.6	119.5	188.7	181.9	34.6	22.1	31.4	26.8	12.8
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°	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4	879.4
2.5°	887.0	892.7	899.4	909.5	918.0	925.2	932.6	937.3	939.1	944.4	944.0
5°	893.4	905.9	922.7	939.1	955.1	964.7	973.3	977.6	981.5	984.4	985.1
7.5°	904.2	920.1	946.6	968.0	981.5	989.4	995.1	993.6	995.1	995.8	996.9
10°	913.4	935.8	967.3	987.6	997.9	998.4	996.9	991.9	989.4	989.7	990.5
12.5°	924.4	949.5	983.3	1000.4	1003.3	995.5	989.4	980.8	977.6	976.2	975.5
15°	939.4	968.0	1000.8	1007.3	1000.1	990.0	979.8	965.9	958.7	952.9	954.8
17.5°	957.7	989.0	1014.3	1009.7	994.4	978.0	961.2	940.1	925.5	919.4	919.8
20°	983.0	1011.2	1024.7	1004.4	981.1	956.2	927.6	902.0	888.4	882.3	881.6
22.5°	1013.6	1040.8	1034.7	995.1	962.3	922.3	886.6	867.8	860.9	856.7	857.4
25°	1050.4	1073.6	1041.8	981.5	931.2	877.4	849.8	843.8	840.6	837.4	837.4
27.5°	1098.2	1110.7	1047.1	961.6	882.7	829.5	819.6	820.6	819.6	814.2	815.3
30°	1161.3	1158.9	1052.2	929.1	827.1	786.4	787.1	791.7	792.4	788.8	790.7
32.5°	1244.5	1219.1	1054.7	887.0	773.9	748.6	749.3	754.3	757.8	751.7	754.6
35°	1345.1	1289.4	1050.7	834.1	732.9	712.5	707.1	708.6	709.6	704.0	707.9
37.5°	1462.5	1368.3	1033.3	775.6	698.9	677.2	665.7	656.1	650.5	645.0	648.6
40°	1591.3	1454.3	1001.1	718.6	661.1	639.7	622.6	604.4	585.2	578.0	581.2
42.5°	1726.2	1542.7	962.3	664.0	617.6	600.1	581.9	555.6	526.6	512.0	513.7
45°	1866.0	1633.4	924.1	610.1	573.0	565.5	544.5	512.7	481.3	462.8	461.4
47.5°	2003.1	1719.0	868.1	555.9	531.3	539.5	523.1	493.8	458.8	429.6	426.4
50°	2133.9	1799.3	776.3	500.9	497.3	531.7	515.9	473.9	433.9	396.4	393.2
52.5°	2263.8	1864.3	659.0	451.0	479.2	529.5	506.7	460.2	411.3	372.2	367.9
55°	2374.1	1897.8	545.9	408.2	452.7	511.3	495.6	444.2	379.7	337.8	334.4
57.5°	2436.9	1870.6	451.7	366.0	416.4	481.3	476.6	410.0	341.8	309.7	305.4
60°	2409.8	1760.7	374.6	329.3	381.8	448.8	443.8	376.1	312.9	282.6	278.3
62.5°	2260.2	1551.3	313.6	297.2	350.3	415.6	411.0	350.0	290.8	261.5	256.9
65°	1959.2	1262.0	266.2	270.5	318.6	375.7	382.5	328.2	273.3	244.8	240.2
67.5°	1494.2	914.1	229.1	247.2	287.6	336.4	356.1	312.5	258.7	231.5	227.2
70°	851.7	519.2	197.6	224.8	260.1	300.0	335.8	300.0	242.9	220.5	217.6
72.5°	322.9	238.3	170.9	202.3	233.7	269.4	313.2	280.4	224.8	208.0	205.2
75°	172.3	145.2	143.8	175.9	203.4	239.4	285.1	261.2	211.3	219.8	226.9
77.5°	117.4	102.7	120.2	150.6	170.1	206.2	255.1	232.0	183.1	182.3	168.1
80°	81.4	72.8	97.8	121.4	131.6	173.4	222.6	199.1	149.1	139.2	133.0
82.5°	48.9	47.5	73.2	90.6	93.2	133.8	184.5	167.0	122.0	106.3	107.0
85°	26.8	28.2	46.7	53.2	54.2	93.5	144.5	129.1	93.8	78.8	79.5
87.5°	7.5	9.6	17.1	21.0	26.0	48.5	86.0	76.7	47.0	32.8	32.8
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)