

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: P964507

Luminaire Tested: **NAV-SB3C-727-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964507  
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-SB3C-727-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21758.7 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

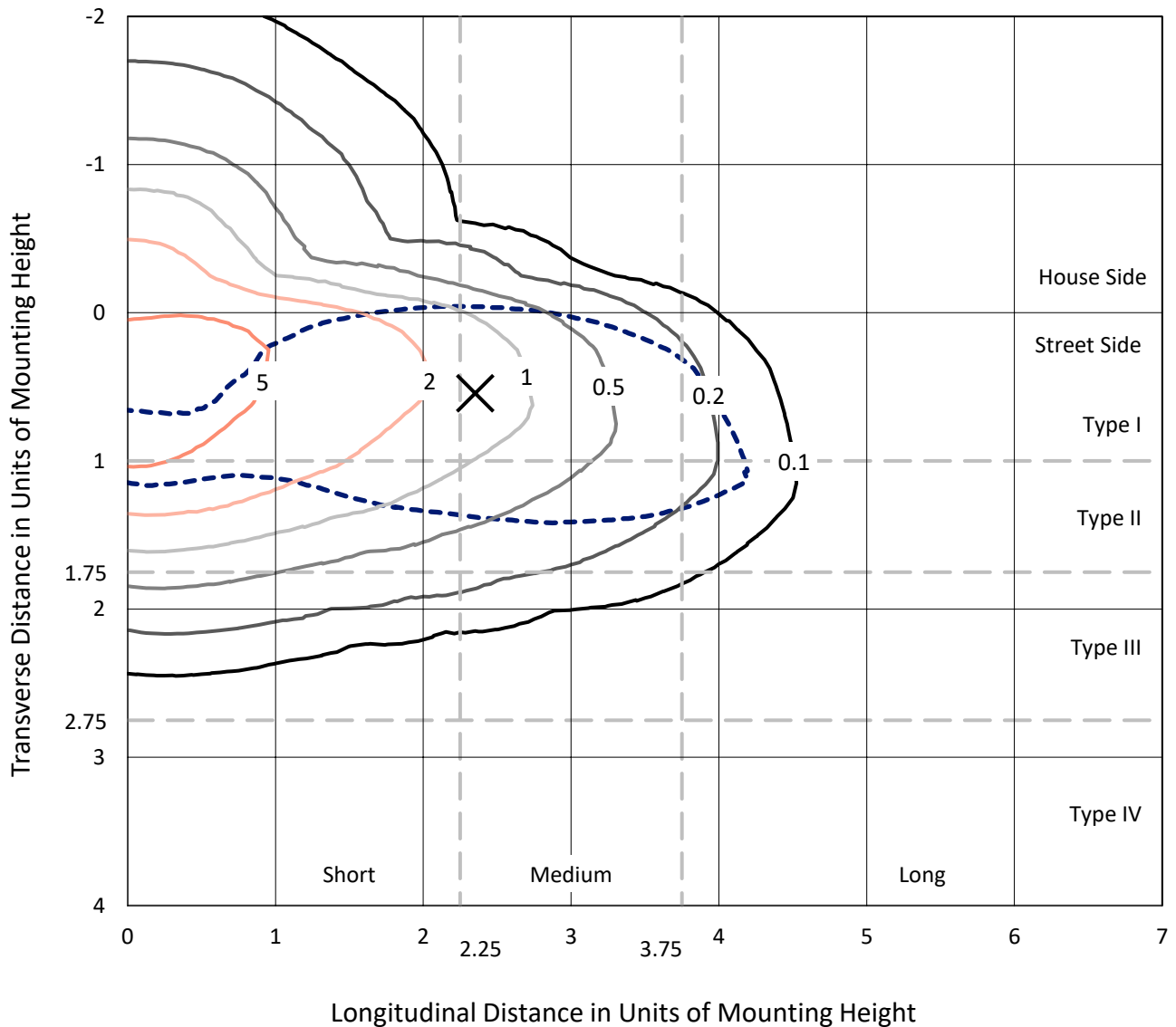
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

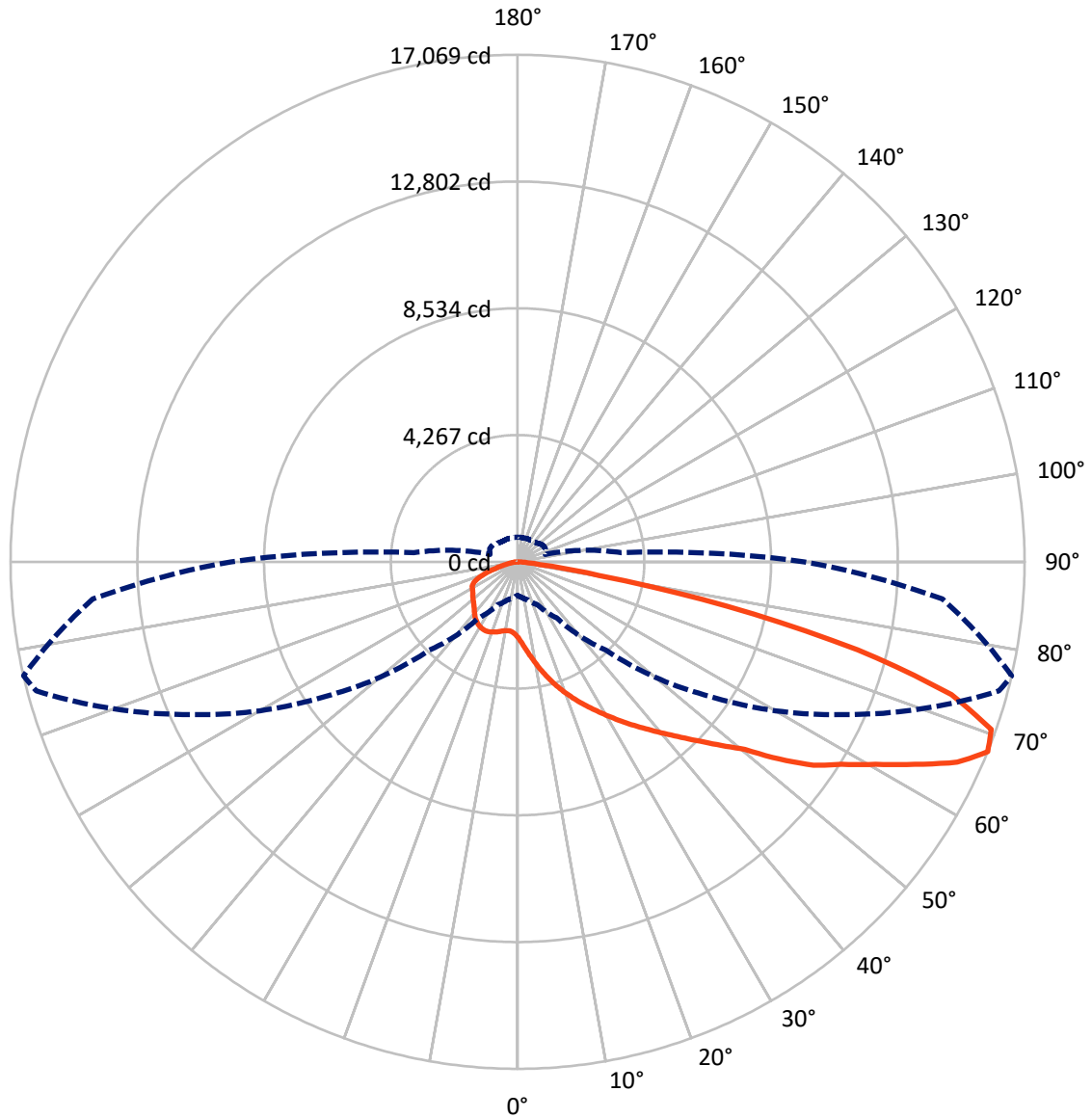
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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
<b>House Side</b>	Lumens	4115.9	0.0	4115.9
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	17642.8	0.0	17642.8
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	21758.7	0.0	21758.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.6	1.3
10°-20°	983.1	4.5
20°-30°	1856.2	8.5
30°-40°	2990.3	13.7
40°-50°	4090.1	18.8
50°-60°	4613.7	21.2
60°-70°	4306.3	19.8
70°-80°	2360.6	10.8
80°-90°	284.7	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°	21758.7	100.0
0°-180°	21758.7	100.0

**Coefficient of Utilization**

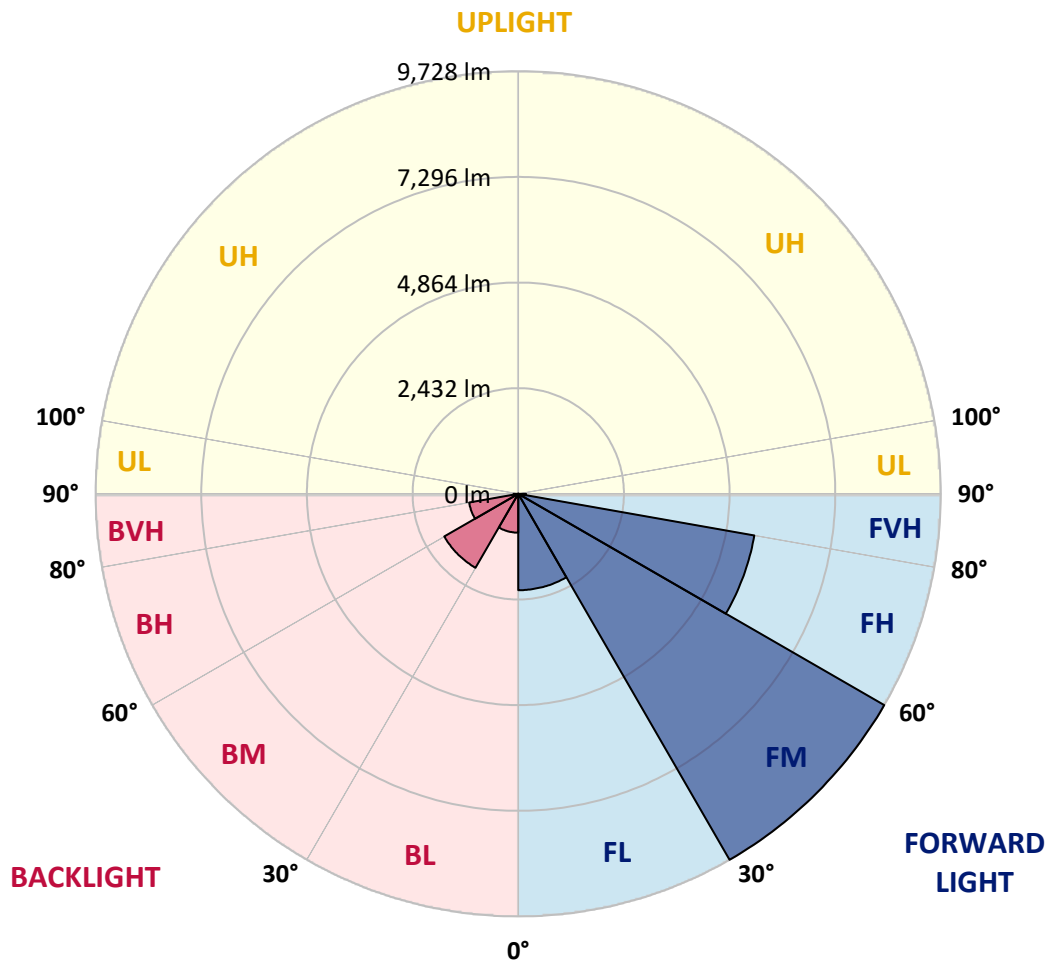


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.0	10.2			
FM (30°-60°)	9728.1	44.7			
FH (60°-80°)	5518.6	25.4			G3/7500
FVH (80°-90°)	178.1	0.8			G2/225
BL (0°-30°)	894.9	4.1	B2/1000		
BM (30°-60°)	1966.1	9.0	B2/2500		
BH (60°-80°)	1148.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0
2.5°	3196.6	3219.0	3190.9	3190.9	3096.6	3047.1	2952.8	2881.0	2751.8	2729.3	2644.0
5°	3778.4	3806.4	3767.1	3750.3	3639.1	3536.9	3378.5	3222.4	2992.2	2968.5	2767.5
7.5°	4228.7	4264.7	4229.9	4211.9	4113.0	3998.5	3813.2	3595.3	3270.7	3224.6	2933.8
10°	4596.0	4601.6	4590.4	4597.1	4519.6	4425.3	4235.5	3981.6	3576.2	3513.3	3134.8
12.5°	4803.8	4829.6	4852.1	4892.5	4879.1	4820.7	4649.9	4346.7	3899.6	3818.7	3353.8
15°	4901.5	4946.4	4997.0	5090.3	5165.5	5180.0	5049.8	4738.7	4228.7	4131.1	3575.1
17.5°	4936.3	4979.0	5058.8	5193.6	5355.3	5464.3	5405.8	5119.5	4554.5	4442.1	3807.6
20°	5112.7	5125.0	5173.4	5301.4	5476.6	5657.4	5701.3	5485.6	4876.8	4749.8	4047.9
22.5°	5490.1	5465.4	5478.8	5537.3	5663.0	5838.3	5938.2	5809.1	5208.1	5062.2	4290.5
25°	6113.4	6041.6	5969.7	5902.3	5966.3	6065.1	6178.6	6132.5	5555.2	5369.9	4535.4
27.5°	6900.8	6813.2	6654.8	6433.5	6356.0	6390.9	6441.4	6432.4	5876.4	5688.9	4788.1
30°	7675.7	7573.5	7384.8	7064.7	6860.3	6768.3	6730.0	6704.2	6225.7	6025.9	5043.0
32.5°	8294.6	8213.7	8028.4	7670.2	7373.6	7216.4	7089.5	6997.4	6590.7	6390.9	5312.6
35°	8836.0	8760.8	8548.5	8157.6	7835.2	7667.9	7501.7	7305.1	6970.4	6768.3	5602.3
37.5°	9330.2	9254.9	8964.0	8557.4	8232.9	8117.2	7968.9	7635.3	7351.2	7160.2	5909.0
40°	9642.5	9625.6	9353.7	8893.3	8556.3	8499.1	8449.6	8018.4	7773.5	7596.0	6245.9
42.5°	9722.2	9759.2	9543.6	9165.1	8843.9	8797.8	8913.5	8451.8	8247.5	8077.8	6627.9
45°	9530.1	9636.8	9495.3	9238.1	9048.3	9023.6	9324.6	8925.8	8771.9	8617.0	7088.4
47.5°	9043.8	9224.6	9166.2	9130.3	9103.3	9210.0	9686.2	9429.1	9366.1	9231.4	7614.0
50°	8062.1	8404.7	8506.9	8733.8	8994.4	9354.9	10015.4	9978.3	10060.3	9924.4	8254.2
52.5°	6365.0	6836.7	7429.8	7998.1	8659.7	9306.6	10377.0	10766.7	11112.6	11038.5	9271.7
55°	5254.3	5466.5	5922.4	6964.8	8010.5	9103.3	10539.9	11403.5	12157.2	12091.0	10043.4
57.5°	4400.6	4590.4	4871.2	5741.6	7028.8	8641.7	10640.9	11792.2	12872.7	12865.9	10804.9
60°	3485.2	3686.2	3973.8	4590.4	5882.1	7844.2	10618.5	12234.7	13785.8	13842.0	11733.8
62.5°	2451.9	2673.2	2992.2	3567.2	4710.6	6810.9	10160.2	12554.8	14860.7	15013.5	12851.3
65°	1611.7	1757.8	1998.1	2494.5	3509.9	5482.2	9285.3	12596.4	16010.8	16269.1	13900.4
67.5°	1130.0	1186.0	1327.6	1597.2	2313.7	4204.0	7891.4	12166.2	16777.9	17068.8	14355.2
70°	881.7	909.8	981.6	1089.5	1453.3	2827.1	6047.2	11047.6	16614.0	16917.2	13880.1
72.5°	761.5	788.4	815.4	828.9	974.9	1745.4	4096.2	9237.0	15069.7	15275.2	12068.5
75°	690.7	697.5	720.0	715.4	743.5	1132.1	2364.3	6730.0	11889.9	11819.2	8909.0
77.5°	580.7	589.7	626.7	621.2	660.4	773.9	1227.6	4343.3	7708.3	7227.6	4958.8
80°	492.0	496.4	536.9	530.1	573.9	560.5	626.7	2213.8	3269.5	2769.8	1429.8
82.5°	170.8	211.2	410.0	422.3	438.1	339.2	361.6	903.0	998.5	764.9	299.9
85°	83.1	88.8	208.9	296.5	295.4	170.8	176.3	322.4	314.5	247.1	99.9
87.5°	13.4	16.8	24.7	115.7	92.1	44.9	60.7	62.9	65.2	56.2	22.4
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°	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0	2553.0
2.5°	2581.1	2524.9	2407.0	2298.0	2212.7	2130.7	2084.6	2045.3	2022.8	2018.3	2018.3
5°	2650.6	2535.0	2320.5	2139.7	2021.7	1934.1	1888.0	1858.8	1844.3	1835.3	1834.1
7.5°	2750.7	2581.1	2275.5	2070.0	1946.5	1883.5	1860.0	1855.5	1854.3	1855.5	1858.8
10°	2888.8	2656.3	2271.1	2053.2	1949.9	1915.0	1913.9	1915.0	1919.5	1920.6	1921.8
12.5°	3038.2	2733.8	2289.0	2067.7	1992.5	1973.4	1970.0	1968.9	1972.3	1974.6	1975.7
15°	3201.1	2836.0	2319.4	2099.2	2039.6	2019.5	2016.1	2009.3	2008.3	2007.2	2006.0
17.5°	3368.4	2937.1	2353.1	2132.9	2070.0	2041.9	2029.6	2013.8	2001.5	1998.1	2001.5
20°	3538.0	3037.1	2376.7	2149.7	2072.2	2033.0	2008.3	1981.3	1959.9	1947.6	1952.1
22.5°	3718.8	3141.5	2391.2	2145.2	2052.0	1998.1	1953.2	1921.8	1889.2	1867.9	1869.0
25°	3895.2	3232.4	2390.1	2121.6	2012.7	1944.2	1886.9	1846.5	1801.5	1779.1	1779.1
27.5°	4064.7	3314.4	2362.0	2080.1	1956.5	1880.2	1811.7	1763.4	1719.5	1698.2	1697.1
30°	4240.0	3383.0	2318.2	2019.5	1890.3	1806.0	1730.8	1689.3	1649.9	1629.7	1628.6
32.5°	4414.1	3445.8	2256.4	1944.2	1813.9	1733.1	1659.0	1620.7	1597.2	1597.2	1598.3
35°	4598.3	3489.7	2174.4	1856.6	1733.1	1655.6	1597.2	1574.7	1572.5	1558.9	1555.6
37.5°	4792.6	3517.8	2074.5	1766.8	1653.3	1580.3	1562.3	1535.3	1512.9	1483.7	1479.2
40°	4997.0	3545.9	1954.4	1673.5	1569.1	1528.7	1520.8	1484.8	1420.9	1348.9	1338.9
42.5°	5245.2	3565.0	1829.6	1580.3	1480.3	1466.9	1478.0	1416.3	1314.2	1260.2	1261.4
45°	5532.7	3596.4	1715.1	1488.2	1389.4	1389.4	1436.5	1355.7	1271.4	1237.7	1243.3
47.5°	5905.6	3669.4	1608.4	1387.1	1305.1	1327.6	1344.4	1282.7	1235.5	1193.9	1192.8
50°	6444.8	3844.6	1498.3	1284.9	1241.1	1286.1	1262.5	1226.5	1171.5	1137.8	1134.4
52.5°	7114.2	3948.0	1400.6	1192.8	1186.0	1231.0	1197.3	1163.6	1122.1	1077.2	1068.2
55°	7570.1	3967.1	1318.6	1125.4	1149.0	1144.5	1132.1	1101.9	1079.3	1019.9	1021.0
57.5°	8080.1	4005.2	1251.2	1085.0	1125.4	1076.0	1071.5	1045.7	1016.5	976.0	962.6
60°	8689.9	4064.7	1192.8	1069.3	1105.2	1031.0	1008.6	998.5	969.3	949.0	954.7
62.5°	9354.9	4118.7	1133.2	1071.5	1081.6	987.3	953.6	950.2	932.2	925.5	925.5
65°	9808.6	3971.6	1059.1	1069.3	1044.6	942.4	899.6	898.5	884.0	881.7	880.6
67.5°	9650.3	3505.4	959.2	1037.8	1006.3	897.4	850.2	845.7	826.7	827.8	827.8
70°	8857.3	2840.5	821.0	960.3	959.2	857.0	798.6	784.0	758.2	762.6	767.1
72.5°	7370.3	2104.8	635.7	831.2	884.0	819.9	739.0	715.4	682.9	687.4	686.2
75°	5322.7	1430.9	462.8	632.3	769.4	776.1	680.6	640.2	600.9	607.6	609.9
77.5°	2723.7	811.0	340.3	435.8	604.2	705.3	627.8	573.9	565.0	627.8	618.9
80°	888.5	406.6	235.9	305.6	396.5	577.3	550.3	488.6	486.4	500.9	430.2
82.5°	265.1	171.9	151.6	201.0	219.0	442.5	475.1	369.5	317.9	334.7	345.9
85°	91.0	83.1	86.5	99.9	104.4	259.4	332.5	244.9	231.3	254.9	251.6
87.5°	21.3	29.2	24.7	22.4	22.4	62.9	129.1	102.2	141.6	94.3	91.0
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)