

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: P959863

Luminaire Tested: **NAV-SB1B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959863
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-SB1B-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

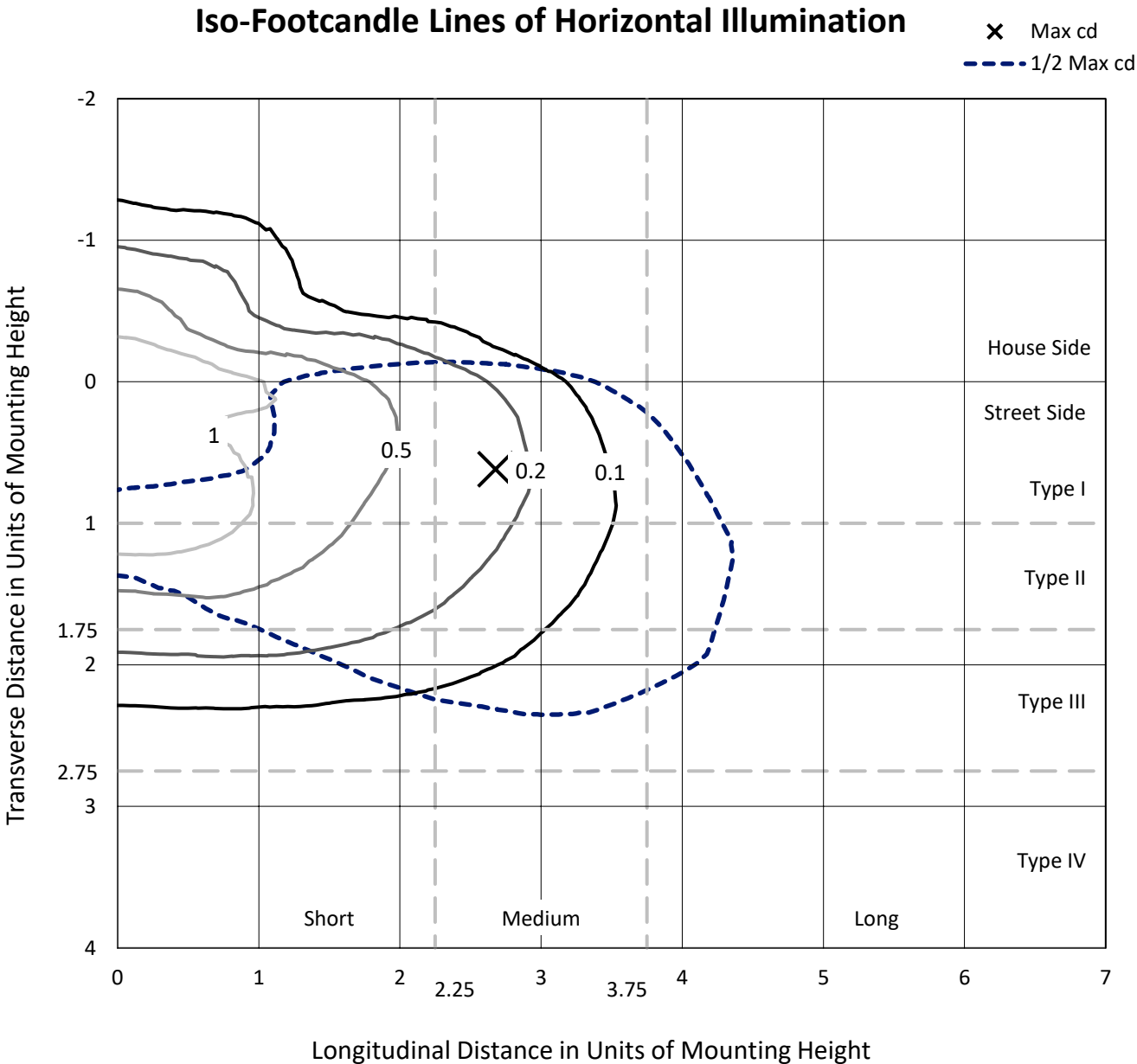
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6270.9 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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



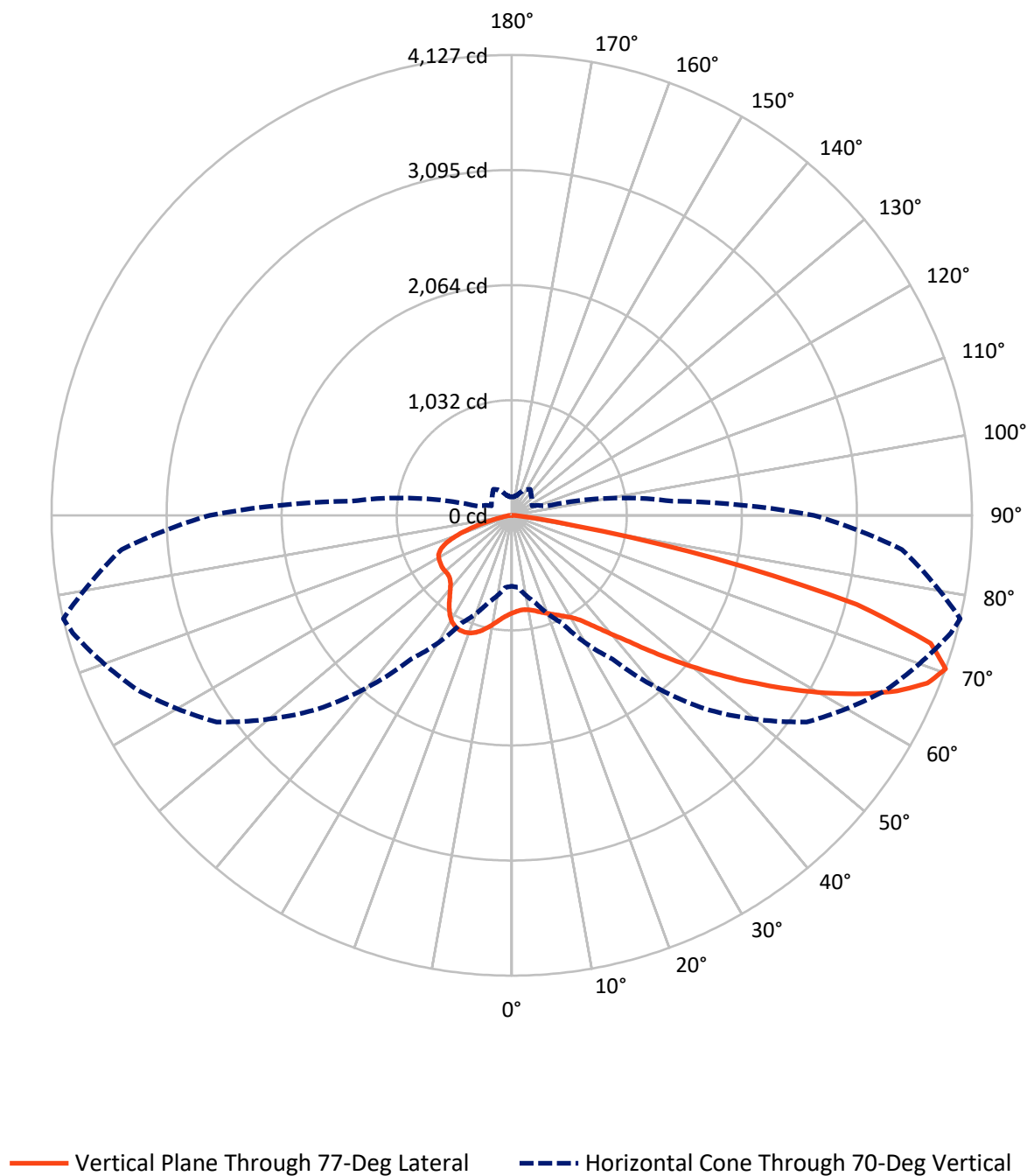
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Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.2	0.0	1373.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4897.7	0.0	4897.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	6270.9	0.0	6270.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	1.3
10°-20°	240.8	3.8
20°-30°	411.8	6.6
30°-40°	662.2	10.6
40°-50°	1033.9	16.5
50°-60°	1381.1	22.0
60°-70°	1472.0	23.5
70°-80°	906.2	14.5
80°-90°	79.4	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°	6270.9	100.0
0°-180°	6270.9	100.0

Coefficient of Utilization



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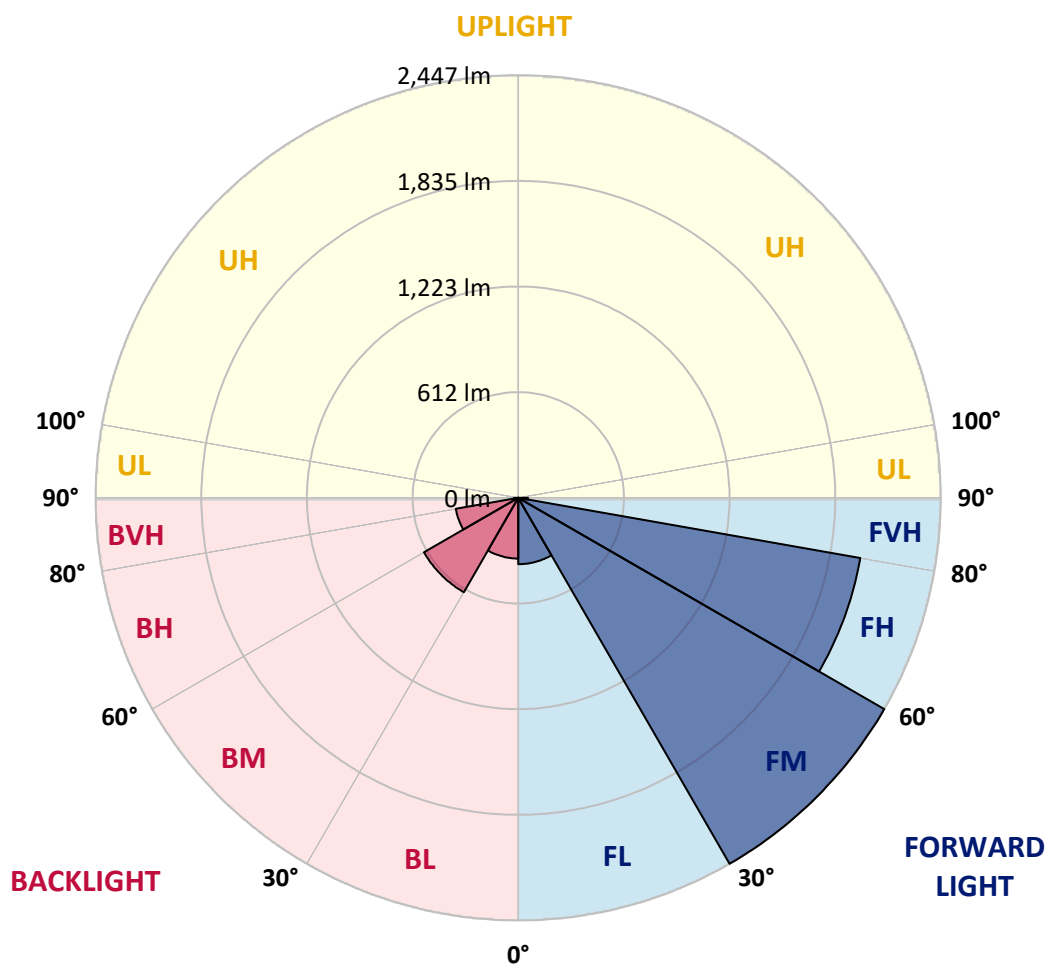
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.2	6.1			
FM	(30°-60°)	2446.8	39.0			
FH	(60°-80°)	2011.2	32.1			G2/5000
FVH	(80°-90°)	55.5	0.9			G1/100
BL	(0°-30°)	351.9	5.6	B1/500		
BM	(30°-60°)	630.5	10.1	B1/1000		
BH	(60°-80°)	367.0	5.9	B1/500		G1/500
BVH	(80°-90°)	23.9	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8
2.5°	806.5	806.2	810.3	811.6	819.3	824.7	835.1	845.9	860.1	861.7	870.3
5°	759.8	759.8	764.6	769.9	779.8	790.7	806.5	825.4	849.8	853.6	875.1
7.5°	720.4	722.9	727.1	737.1	748.7	764.3	788.4	815.5	847.6	853.6	888.4
10°	688.6	691.5	696.6	704.7	722.0	743.8	775.3	810.0	853.0	862.6	907.6
12.5°	678.7	681.5	684.4	690.5	706.5	732.3	769.9	812.5	866.2	875.9	934.0
15°	701.7	705.3	703.0	701.4	709.8	733.2	772.4	821.8	882.5	896.4	966.4
17.5°	755.0	756.3	751.2	736.2	734.8	747.3	784.6	834.8	903.1	918.2	999.2
20°	841.1	838.9	828.3	798.4	781.4	778.8	805.4	854.0	924.3	940.3	1034.4
22.5°	958.1	955.5	934.3	887.0	849.2	824.1	835.7	879.0	948.1	966.1	1068.9
25°	1103.8	1100.3	1069.2	1004.9	946.2	884.2	876.8	912.1	977.3	994.0	1104.8
27.5°	1274.1	1271.2	1237.5	1152.6	1067.8	966.4	927.8	951.0	1007.8	1026.7	1145.2
30°	1457.1	1465.4	1405.8	1314.6	1207.2	1073.7	996.6	998.9	1047.3	1064.4	1194.4
32.5°	1672.3	1686.7	1614.8	1499.2	1352.8	1190.2	1083.3	1065.6	1104.8	1118.9	1256.4
35°	1885.6	1902.0	1842.2	1714.4	1545.8	1327.7	1173.8	1142.4	1181.2	1196.7	1338.6
37.5°	2069.9	2091.7	2061.0	1949.8	1752.2	1493.4	1292.0	1232.7	1275.3	1294.6	1449.1
40°	2215.4	2248.8	2246.6	2177.2	1995.7	1694.4	1442.1	1344.1	1392.3	1413.2	1583.0
42.5°	2333.6	2362.5	2387.5	2384.0	2249.8	1922.8	1618.4	1488.9	1525.5	1549.6	1733.7
45°	2415.2	2446.0	2500.0	2558.1	2494.1	2167.3	1820.4	1660.7	1694.1	1730.4	1913.2
47.5°	2488.1	2523.0	2593.0	2685.3	2701.7	2412.6	2041.7	1860.8	1891.3	1928.9	2093.4
50°	2494.5	2524.7	2633.2	2763.9	2849.1	2648.3	2279.3	2085.4	2114.0	2154.0	2286.4
52.5°	2339.4	2386.9	2576.4	2761.7	2916.8	2845.5	2515.4	2318.9	2350.9	2399.1	2486.1
55°	1815.9	1885.6	2409.7	2675.7	2892.8	2973.0	2739.8	2567.1	2608.2	2658.6	2687.2
57.5°	1564.0	1594.6	1912.9	2518.9	2782.9	3006.1	2929.3	2817.9	2884.0	2939.3	2899.8
60°	1405.8	1431.1	1619.3	2275.1	2638.4	2953.7	3075.8	3051.7	3166.0	3231.9	3117.2
62.5°	1236.1	1260.2	1431.4	1899.7	2453.3	2866.7	3168.3	3267.5	3455.1	3527.0	3322.1
65°	1067.8	1088.4	1252.6	1596.2	2218.3	2779.7	3216.1	3454.1	3722.6	3797.1	3492.4
67.5°	880.3	897.4	1052.5	1346.6	1932.4	2660.5	3239.9	3600.9	3955.5	4019.4	3576.5
70°	635.3	648.4	808.7	1065.0	1573.7	2455.6	3230.3	3705.0	4076.2	4127.3	3512.9
72.5°	300.3	312.2	500.4	691.5	1111.5	2056.8	3035.3	3622.5	3953.5	3928.2	3123.7
75°	160.3	170.6	287.4	379.2	587.1	1409.9	2483.9	3120.4	3319.9	3196.6	2308.5
77.5°	108.5	116.5	177.9	227.8	268.1	669.3	1596.5	2160.5	2078.6	1874.9	1156.2
80°	86.1	94.4	145.9	154.2	129.8	241.8	659.7	1000.1	718.4	574.6	328.9
82.5°	66.1	75.4	122.7	111.7	70.6	99.2	192.1	316.3	184.0	140.0	79.6
85°	40.5	50.4	96.4	71.3	39.9	45.3	65.2	88.0	56.2	46.8	28.6
87.5°	20.6	28.9	48.8	26.0	17.9	10.6	17.3	17.3	14.8	12.8	7.4
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°	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8	874.8
2.5°	878.1	884.5	895.4	905.7	913.7	921.4	929.2	933.3	934.6	939.7	942.6
5°	888.4	900.3	921.4	941.4	953.9	961.6	967.0	970.3	970.9	972.5	975.1
7.5°	907.3	926.2	955.8	975.7	985.0	984.4	982.2	974.1	970.9	968.0	968.6
10°	934.0	959.0	995.3	1009.1	1003.3	987.9	968.0	944.5	933.7	923.0	919.8
12.5°	967.0	998.9	1034.4	1033.8	1005.2	965.8	919.5	883.6	860.7	844.4	840.5
15°	1007.2	1043.8	1071.1	1049.3	986.7	915.6	847.9	801.0	780.4	762.5	760.6
17.5°	1048.6	1087.8	1100.3	1044.5	939.7	841.4	764.6	727.7	707.6	697.9	700.8
20°	1089.1	1127.9	1117.7	1016.8	868.5	757.3	688.9	668.7	664.5	666.8	665.7
22.5°	1131.8	1166.4	1121.1	963.5	777.6	671.3	633.7	634.3	643.6	650.4	652.0
25°	1175.5	1198.9	1111.9	886.4	679.9	607.9	598.7	609.0	627.2	640.4	643.9
27.5°	1217.5	1227.8	1091.6	791.0	596.0	562.7	564.3	585.5	613.2	631.4	635.9
30°	1265.1	1253.5	1052.8	683.8	537.9	523.8	537.3	562.0	589.7	606.1	609.9
32.5°	1318.7	1275.7	991.1	584.6	496.8	492.7	514.9	530.8	543.0	547.9	550.5
35°	1385.5	1306.8	912.1	514.9	459.9	469.9	491.1	483.1	478.3	475.6	478.3
37.5°	1472.2	1348.9	819.6	469.6	430.1	453.5	462.2	437.1	418.2	408.9	411.1
40°	1576.6	1410.6	730.6	434.5	411.1	439.3	424.2	394.1	370.0	356.8	357.8
42.5°	1692.6	1475.1	655.8	408.2	400.5	427.8	396.4	360.4	321.4	317.3	321.4
45°	1814.2	1541.6	604.8	388.0	395.3	417.8	380.3	322.2	294.5	311.5	320.5
47.5°	1936.0	1602.6	573.9	372.9	392.8	406.6	366.1	300.9	281.4	306.1	317.6
50°	2071.5	1657.2	560.2	361.9	389.9	402.1	344.9	295.5	267.5	283.9	296.1
52.5°	2206.1	1699.7	549.8	351.1	385.7	398.5	334.7	289.0	250.8	251.8	258.5
55°	2340.4	1727.2	538.6	336.6	376.4	390.8	333.7	282.0	238.3	233.8	237.0
57.5°	2483.6	1743.0	524.8	320.5	360.4	371.3	332.7	276.5	234.4	227.0	228.1
60°	2629.4	1766.1	506.8	300.9	338.9	347.8	330.5	274.6	232.2	219.7	220.7
62.5°	2760.1	1774.1	485.2	282.3	311.2	324.7	325.6	273.0	226.1	204.6	204.6
65°	2845.8	1739.4	447.7	261.1	281.4	300.9	316.3	267.5	215.1	193.6	193.6
67.5°	2842.3	1640.5	388.9	233.8	252.5	274.6	302.9	258.2	202.0	180.2	181.1
70°	2710.0	1445.2	314.5	202.0	220.7	246.3	285.6	244.4	186.2	165.4	167.3
72.5°	2324.3	1131.2	228.4	164.7	183.7	217.1	263.0	227.8	170.3	152.2	151.3
75°	1660.4	715.9	154.8	126.6	142.9	184.0	235.1	208.1	155.5	152.8	144.2
77.5°	848.2	342.0	102.5	92.5	99.5	145.1	197.5	185.9	157.6	126.2	112.4
80°	275.9	126.2	64.6	62.9	66.1	96.7	152.8	152.5	119.5	85.8	75.7
82.5°	88.0	54.3	42.0	40.5	38.8	60.7	106.6	120.7	80.6	54.3	53.9
85°	35.1	32.4	24.7	22.8	16.4	28.6	55.9	80.3	60.1	39.2	40.2
87.5°	12.8	12.8	6.8	4.8	3.5	9.6	15.1	24.1	34.3	20.2	19.9
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)