

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: P959888

Luminaire Tested: **NAV-SB1B-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959888
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-SB1B-750-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

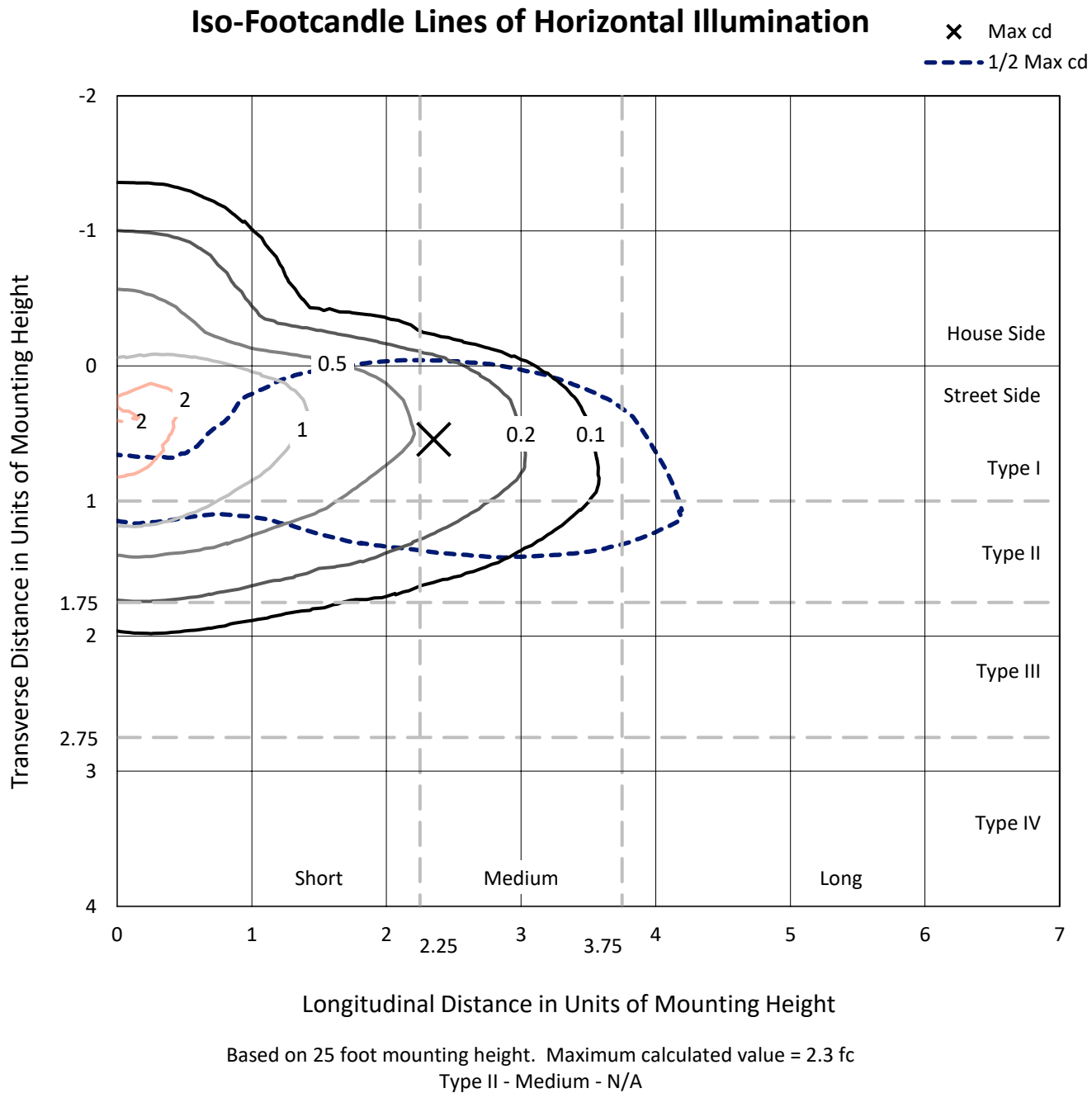
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6221.8 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

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

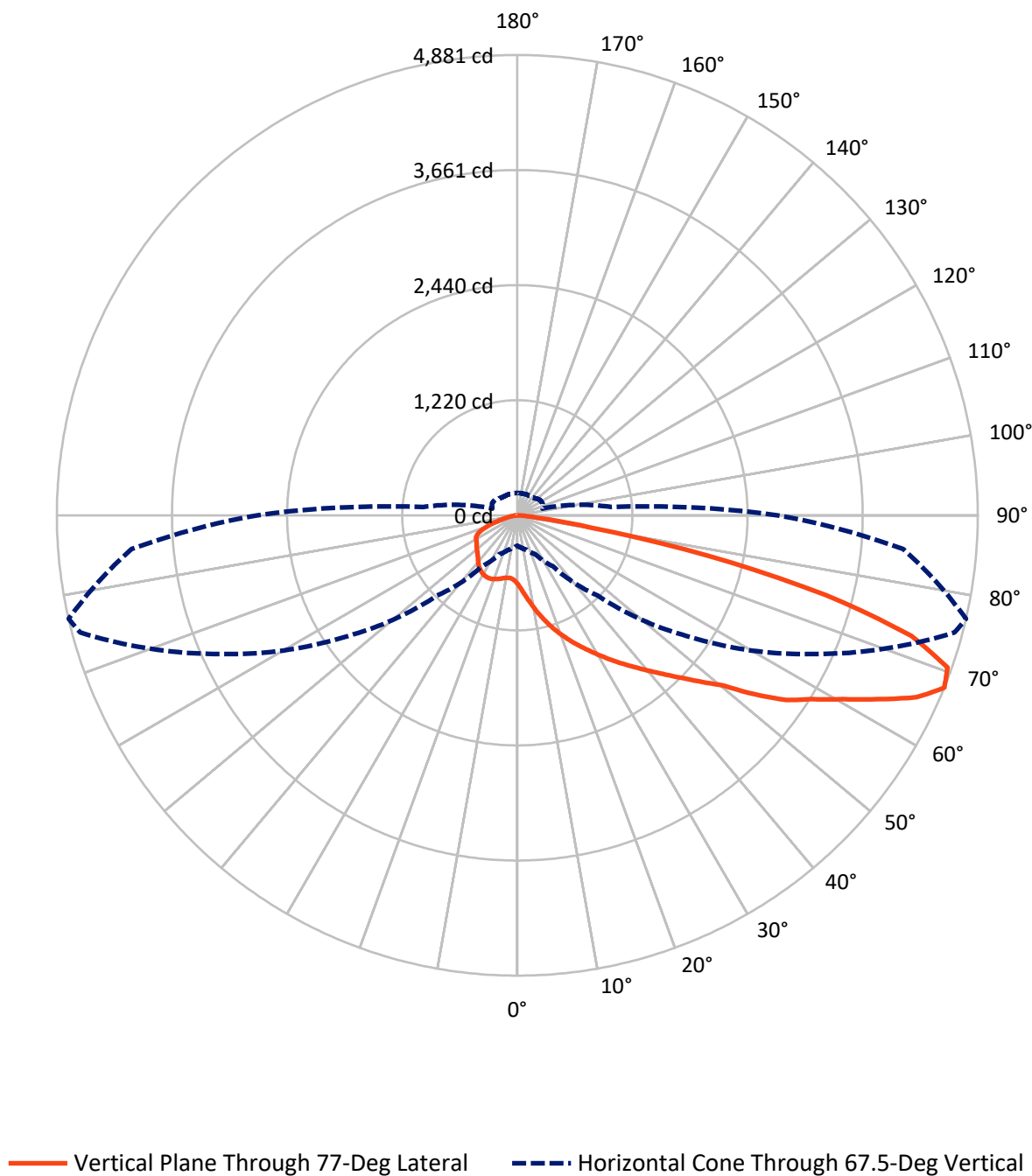


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.9	0.0	1176.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	5044.8	0.0	5044.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	6221.8	0.0	6221.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.3
10°-20°	281.1	4.5
20°-30°	530.8	8.5
30°-40°	855.0	13.7
40°-50°	1169.6	18.8
50°-60°	1319.3	21.2
60°-70°	1231.4	19.8
70°-80°	675.0	10.8
80°-90°	81.4	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°	6221.8	100.0
0°-180°	6221.8	100.0

Coefficient of Utilization



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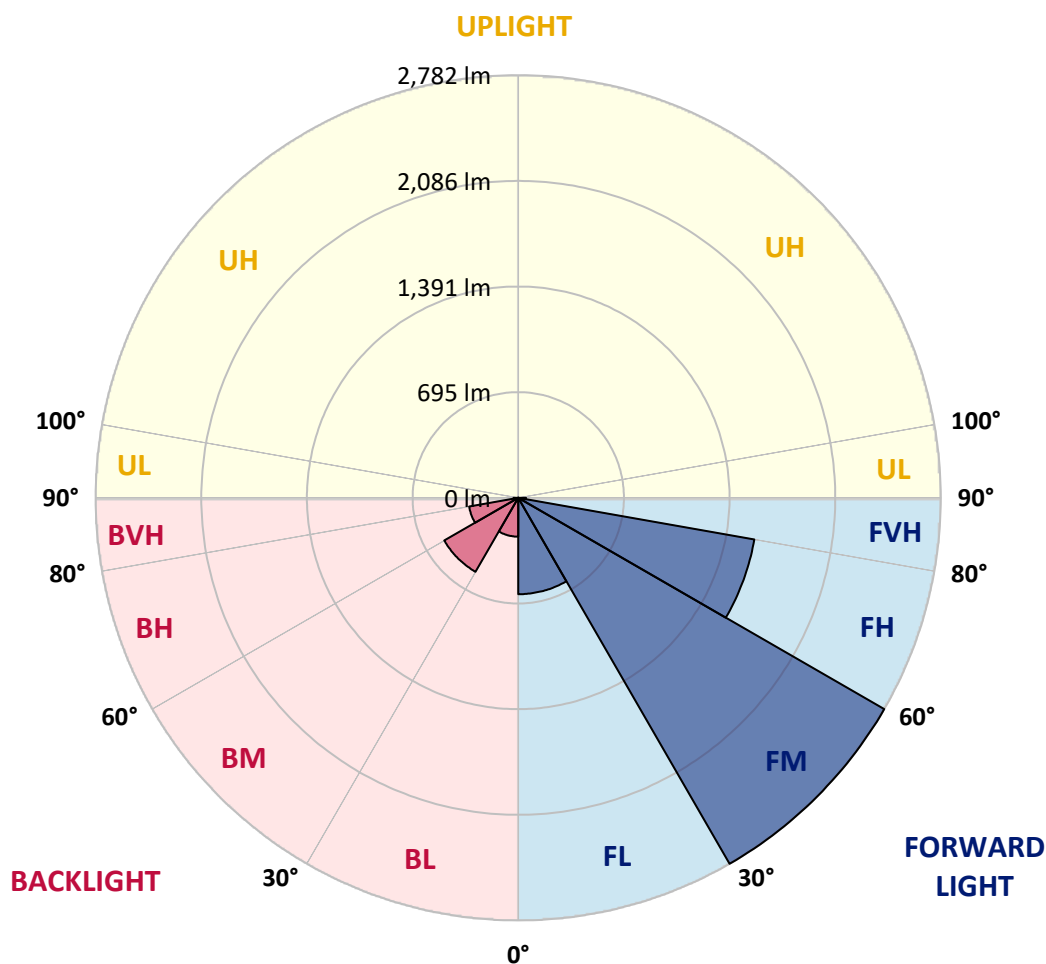
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.2	10.2			
FM	(30°-60°)	2781.7	44.7			
FH	(60°-80°)	1578.0	25.4			G1/1800
FVH	(80°-90°)	50.9	0.8			G1/100
BL	(0°-30°)	255.9	4.1	B1/500		
BM	(30°-60°)	562.2	9.0	B1/1000		
BH	(60°-80°)	328.3	5.3	B1/500		G1/500
BVH	(80°-90°)	30.5	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	914.0	920.4	912.5	912.5	885.5	871.4	844.3	823.8	786.9	780.4	756.0
5°	1080.4	1088.4	1077.2	1072.4	1040.6	1011.4	966.1	921.4	855.6	848.8	791.3
7.5°	1209.2	1219.4	1209.5	1204.4	1176.1	1143.4	1090.4	1028.1	935.2	922.1	838.9
10°	1314.2	1315.8	1312.6	1314.6	1292.3	1265.4	1211.1	1138.6	1022.5	1004.6	896.4
12.5°	1373.6	1381.0	1387.4	1399.0	1395.1	1378.4	1329.6	1242.9	1115.1	1091.9	959.0
15°	1401.6	1414.4	1428.8	1455.5	1477.0	1481.2	1443.9	1354.9	1209.2	1181.2	1022.2
17.5°	1411.5	1423.7	1446.5	1485.0	1531.4	1562.5	1545.8	1463.9	1302.4	1270.2	1088.8
20°	1462.0	1465.4	1479.3	1515.9	1566.0	1617.7	1630.3	1568.6	1394.5	1358.2	1157.4
22.5°	1569.9	1562.8	1566.6	1583.3	1619.3	1669.4	1698.0	1661.0	1489.2	1447.5	1226.8
25°	1748.1	1727.5	1707.0	1687.8	1706.0	1734.3	1766.7	1753.6	1588.4	1535.4	1296.8
27.5°	1973.2	1948.2	1902.9	1839.7	1817.4	1827.4	1841.8	1839.3	1680.3	1626.7	1369.1
30°	2194.8	2165.6	2111.6	2020.1	1961.6	1935.3	1924.4	1917.1	1780.2	1723.0	1442.1
32.5°	2371.7	2348.7	2295.7	2193.2	2108.4	2063.4	2027.1	2000.8	1884.6	1827.4	1519.2
35°	2526.6	2505.1	2444.4	2332.6	2240.4	2192.6	2145.0	2088.8	1993.1	1935.3	1602.0
37.5°	2667.9	2646.3	2563.2	2447.0	2354.1	2321.0	2278.7	2183.2	2102.0	2047.4	1689.6
40°	2757.1	2752.3	2674.6	2542.9	2446.6	2430.3	2416.1	2292.8	2222.8	2172.1	1786.0
42.5°	2780.0	2790.6	2729.0	2620.7	2528.9	2515.7	2548.8	2416.7	2358.3	2309.8	1895.2
45°	2725.1	2755.6	2715.1	2641.5	2587.3	2580.2	2666.3	2552.2	2508.3	2464.0	2026.8
47.5°	2586.0	2637.7	2621.0	2610.8	2603.0	2633.5	2769.8	2696.2	2678.2	2639.7	2177.2
50°	2305.3	2403.2	2432.5	2497.4	2571.8	2674.9	2863.8	2853.2	2876.7	2837.8	2360.3
52.5°	1820.0	1954.9	2124.5	2287.0	2476.2	2661.2	2967.3	3078.7	3177.6	3156.4	2651.2
55°	1502.4	1563.1	1693.5	1991.6	2290.6	2603.0	3013.8	3260.7	3476.3	3457.3	2871.8
57.5°	1258.3	1312.6	1392.9	1641.7	2009.8	2471.1	3042.7	3371.9	3680.9	3678.9	3089.6
60°	996.6	1054.0	1136.3	1312.6	1681.9	2243.0	3036.3	3498.4	3941.9	3958.0	3355.2
62.5°	701.1	764.3	855.6	1020.0	1347.0	1947.5	2905.3	3590.0	4249.3	4293.0	3674.7
65°	460.8	502.7	571.3	713.3	1003.7	1567.6	2655.1	3601.8	4578.2	4652.1	3974.7
67.5°	323.1	339.2	379.7	456.7	661.6	1202.1	2256.5	3478.8	4797.5	4880.7	4104.8
70°	252.2	260.1	280.7	311.5	415.5	808.4	1729.2	3158.9	4750.7	4837.4	3968.9
72.5°	217.7	225.5	233.2	237.0	278.8	499.1	1171.3	2641.2	4309.1	4367.8	3450.9
75°	197.5	199.5	205.8	204.6	212.6	323.7	676.1	1924.4	3399.8	3379.6	2547.4
77.5°	166.0	168.6	179.2	177.6	188.8	221.3	351.1	1241.9	2204.2	2066.7	1418.0
80°	140.6	142.0	153.5	151.6	164.1	160.3	179.2	633.0	934.9	792.0	408.9
82.5°	48.8	60.4	117.3	120.7	125.3	97.0	103.4	258.2	285.6	218.7	85.8
85°	23.8	25.4	59.8	84.8	84.5	48.8	50.4	92.1	89.9	70.6	28.6
87.5°	3.9	4.8	7.1	33.1	26.3	12.8	17.3	17.9	18.7	16.1	6.5
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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	738.0	722.0	688.3	657.1	632.7	609.3	596.0	584.9	578.4	577.2	577.2
5°	758.0	724.9	663.5	611.8	578.1	553.1	539.9	531.6	527.4	524.8	524.5
7.5°	786.5	738.0	650.7	591.9	556.6	538.6	531.9	530.5	530.2	530.5	531.6
10°	826.0	759.5	649.4	587.1	557.5	547.6	547.2	547.6	548.9	549.2	549.5
12.5°	868.8	781.7	654.6	591.2	569.7	564.3	563.3	563.0	564.0	564.6	564.9
15°	915.3	811.0	663.2	600.2	583.2	577.5	576.5	574.5	574.2	573.9	573.6
17.5°	963.2	839.9	672.8	609.9	591.9	583.8	580.4	575.8	572.4	571.3	572.4
20°	1011.7	868.4	679.6	614.7	592.6	581.3	574.2	566.5	560.5	556.9	558.2
22.5°	1063.3	898.3	683.8	613.5	586.8	571.3	558.5	549.5	540.2	534.1	534.4
25°	1113.8	924.3	683.5	606.7	575.5	556.0	539.6	528.0	515.2	508.7	508.7
27.5°	1162.2	947.7	675.4	594.8	559.4	537.6	518.0	504.2	491.7	485.6	485.2
30°	1212.4	967.4	662.9	577.5	540.5	516.4	494.9	483.0	471.8	466.0	465.7
32.5°	1262.2	985.3	645.2	556.0	518.6	495.6	474.4	463.4	456.7	456.7	457.0
35°	1314.9	997.8	621.8	530.8	495.6	473.3	456.7	450.3	449.7	445.8	444.8
37.5°	1370.4	1005.9	593.2	505.2	472.7	451.9	446.7	439.0	432.7	424.2	423.0
40°	1428.8	1013.9	558.8	478.6	448.6	437.1	434.8	424.6	406.3	385.7	382.8
42.5°	1499.9	1019.4	523.2	451.9	423.3	419.4	422.6	405.0	375.8	360.4	360.7
45°	1582.1	1028.4	490.5	425.6	397.3	397.3	410.7	387.7	363.6	353.9	355.6
47.5°	1688.7	1049.2	459.9	396.7	373.2	379.7	384.5	366.7	353.3	341.4	341.1
50°	1842.8	1099.3	428.4	367.4	354.9	367.8	361.0	350.8	335.0	325.3	324.4
52.5°	2034.2	1128.9	400.5	341.1	339.2	352.0	342.3	332.7	320.8	308.0	305.4
55°	2164.6	1134.4	377.0	321.8	328.5	327.3	323.7	315.1	308.6	291.6	291.9
57.5°	2310.5	1145.2	357.7	310.3	321.8	307.7	306.4	299.0	290.7	279.1	275.2
60°	2484.8	1162.2	341.1	305.8	316.0	294.8	288.4	285.6	277.2	271.4	273.0
62.5°	2674.9	1177.7	324.1	306.4	309.2	282.3	272.6	271.7	266.6	264.7	264.7
65°	2804.7	1135.6	302.9	305.8	298.7	269.5	257.3	257.0	252.8	252.2	251.8
67.5°	2759.4	1002.3	274.3	296.7	287.7	256.7	243.1	241.8	236.4	236.7	236.7
70°	2532.7	812.2	234.7	274.6	274.3	245.1	228.4	224.2	216.8	218.1	219.4
72.5°	2107.5	601.9	181.7	237.7	252.8	234.4	211.4	204.6	195.3	196.6	196.2
75°	1522.0	409.2	132.3	180.8	220.0	221.9	194.6	183.1	171.8	173.7	174.4
77.5°	778.8	231.9	97.3	124.6	172.8	201.7	179.6	164.1	161.5	179.6	176.9
80°	254.0	116.2	67.4	87.3	113.4	165.1	157.3	139.7	139.1	143.2	123.0
82.5°	75.7	49.1	43.4	57.5	62.6	126.6	135.8	105.7	90.9	95.7	98.9
85°	26.0	23.8	24.7	28.6	29.8	74.2	95.0	70.0	66.1	72.9	72.0
87.5°	6.1	8.3	7.1	6.5	6.5	17.9	36.9	29.2	40.5	27.0	26.0
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)