

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: P960909

Luminaire Tested: **NAV-SB1D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

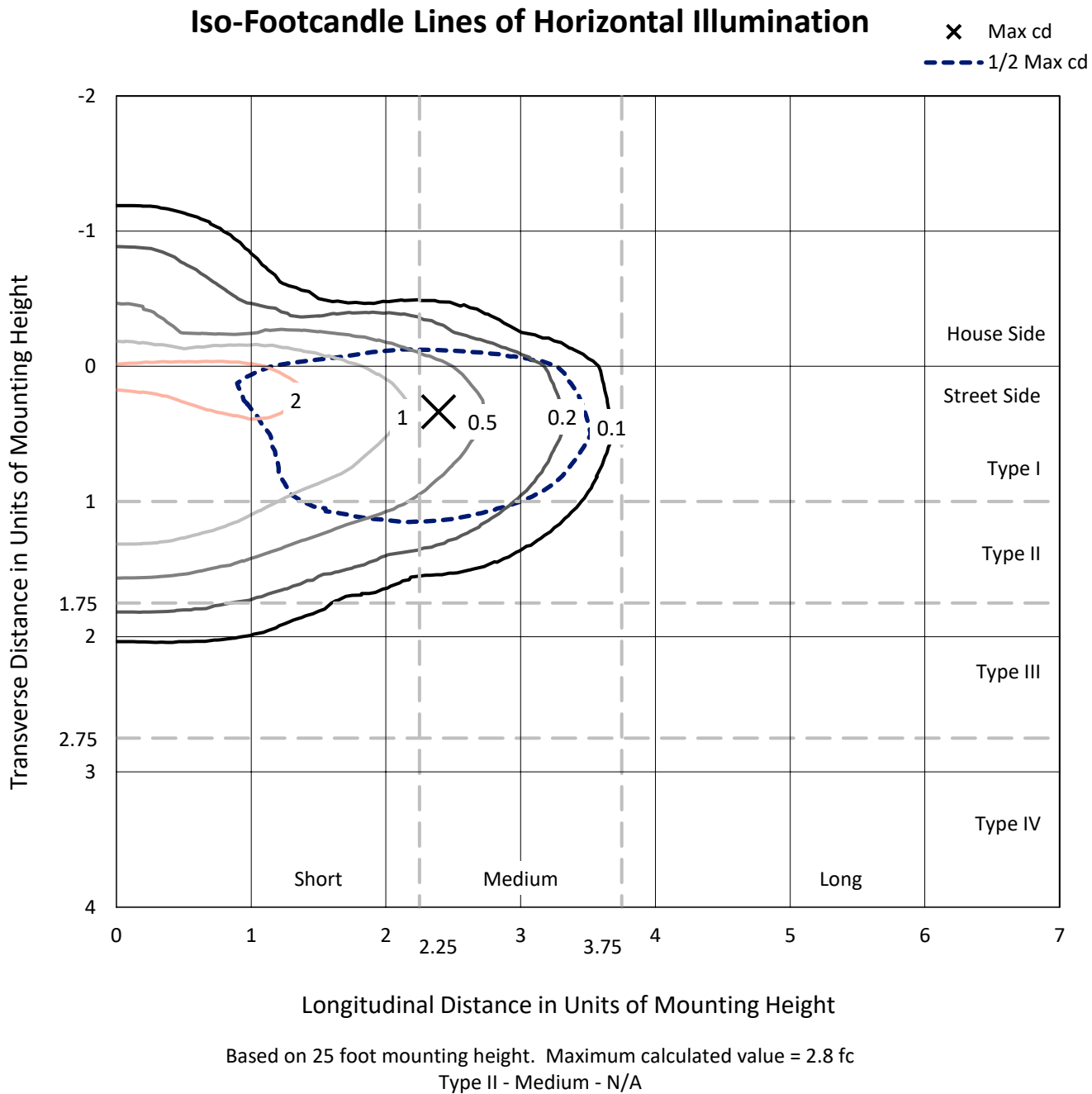
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8060.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 79.6
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

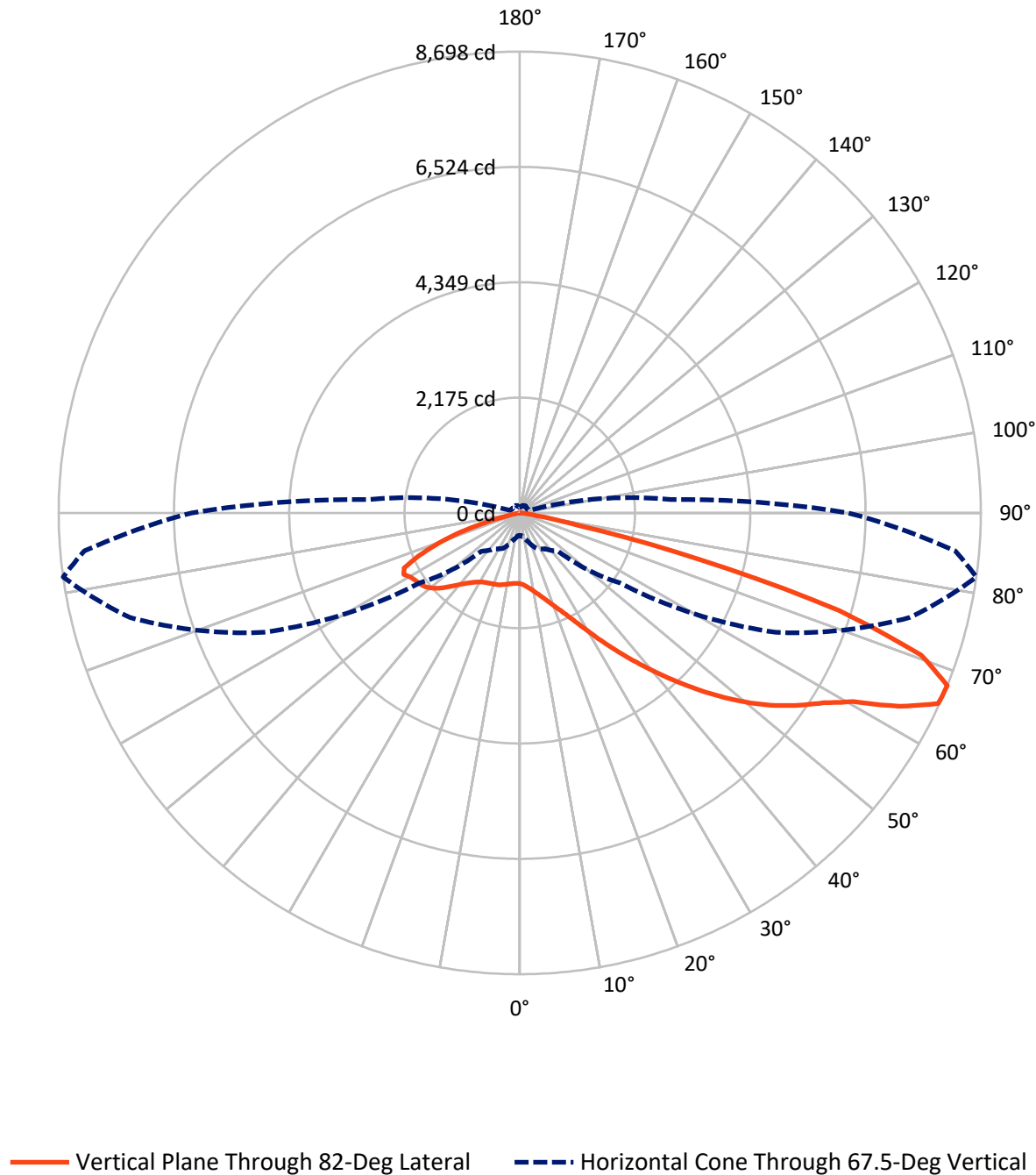


REPORT NUMBER: P960909
CATALOG NUMBER: NAV-SB1D-740-U-T2-HSS



REPORT NUMBER: P960909
CATALOG NUMBER: NAV-SB1D-740-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P960909

CATALOG NUMBER: NAV-SB1D-740-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1460.1	0.0	1460.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6600.5	0.0	6600.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	8060.6	0.0	8060.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.5
10°-20°	309.2	3.8
20°-30°	495.2	6.1
30°-40°	875.6	10.9
40°-50°	1534.2	19.0
50°-60°	2046.1	25.4
60°-70°	1904.9	23.6
70°-80°	731.1	9.1
80°-90°	45.4	0.6
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°	8060.6	100.0
0°-180°	8060.6	100.0

Coefficient of Utilization



REPORT NUMBER: P960909

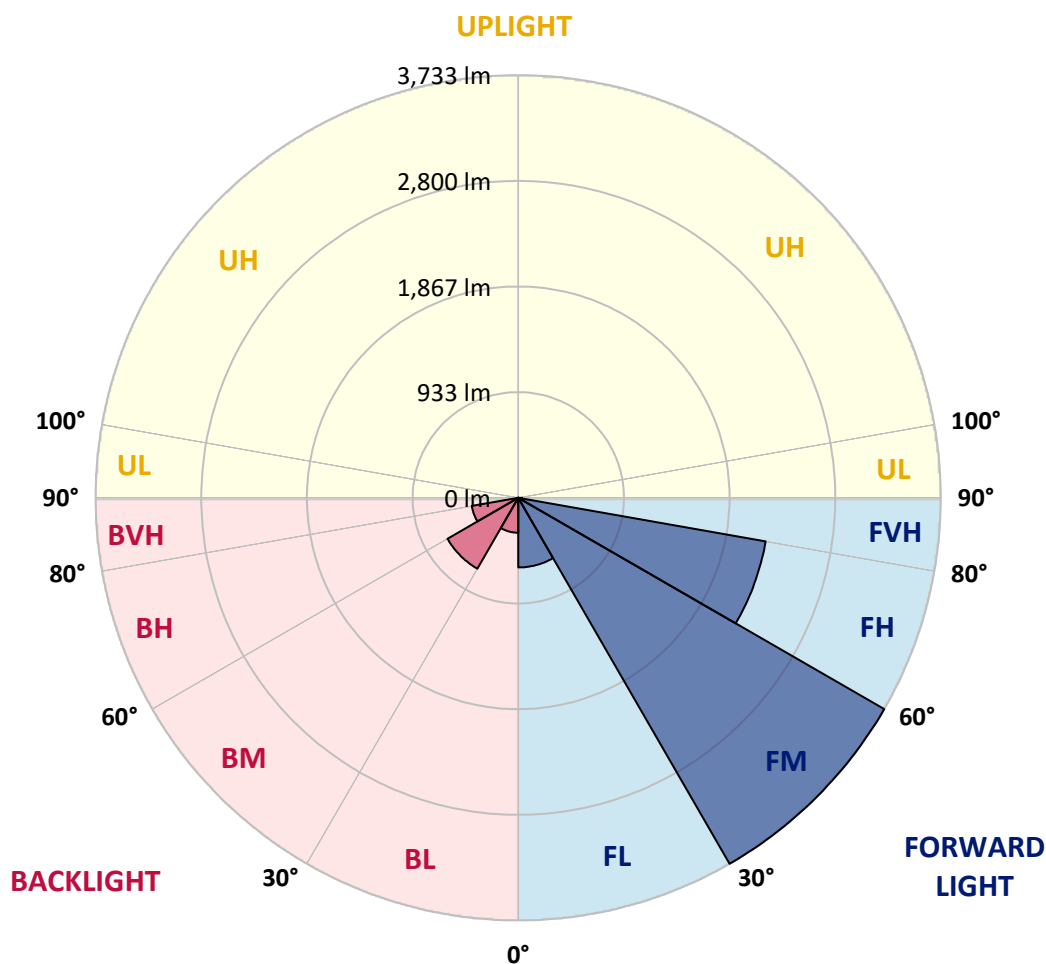
CATALOG NUMBER: NAV-SB1D-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.9	7.6			
FM	(30°-60°)	3733.3	46.3			
FH	(60°-80°)	2219.2	27.5			G2/5000
FVH	(80°-90°)	33.0	0.4			G1/100
BL	(0°-30°)	308.4	3.8	B1/500		
BM	(30°-60°)	722.6	9.0	B1/1000		
BH	(60°-80°)	416.7	5.2	B1/500		G1/500
BVH	(80°-90°)	12.4	0.2			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 II Medium



REPORT NUMBER: P960909

CATALOG NUMBER: NAV-SB1D-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4
2.5°	1411.4	1419.5	1414.9	1412.6	1408.5	1402.7	1398.0	1383.5	1368.5	1358.5	1355.0
5°	1439.8	1447.9	1447.4	1449.7	1452.6	1454.4	1453.1	1436.9	1415.4	1398.6	1388.8
7.5°	1415.4	1424.7	1432.3	1443.9	1464.2	1485.6	1496.1	1492.6	1470.6	1447.4	1435.2
10°	1346.4	1356.3	1374.2	1401.5	1444.4	1490.9	1529.8	1547.7	1533.8	1508.3	1491.5
12.5°	1219.9	1229.8	1265.2	1324.3	1396.3	1476.9	1551.2	1599.4	1602.9	1577.4	1557.6
15°	1077.7	1087.5	1125.2	1199.6	1309.2	1438.7	1562.8	1653.9	1684.7	1662.7	1638.9
17.5°	989.5	998.1	1026.6	1086.4	1200.7	1362.0	1558.8	1712.1	1782.3	1764.8	1736.4
20°	962.8	970.4	983.7	1025.5	1120.6	1282.6	1532.1	1766.6	1887.2	1877.4	1845.5
22.5°	991.2	998.1	1002.2	1020.8	1080.6	1230.3	1498.4	1822.2	2009.1	2010.3	1971.4
25°	1056.8	1063.7	1059.1	1070.7	1096.9	1214.1	1485.6	1887.8	2162.3	2175.2	2131.0
27.5°	1164.7	1165.3	1154.3	1153.7	1157.7	1238.4	1499.1	1958.1	2355.7	2379.4	2324.8
30°	1381.2	1372.5	1330.1	1284.3	1263.4	1311.6	1536.2	2041.1	2583.7	2626.0	2557.6
32.5°	1714.9	1702.1	1624.4	1514.7	1404.5	1429.4	1602.9	2135.7	2832.1	2908.6	2825.1
35°	2077.1	2073.6	1992.3	1829.2	1636.6	1597.1	1711.4	2259.8	3103.1	3225.0	3125.7
37.5°	2413.7	2411.9	2365.5	2173.4	1938.9	1831.0	1885.5	2422.4	3393.3	3569.7	3452.5
40°	2721.3	2726.5	2680.1	2508.3	2272.0	2131.0	2122.3	2623.2	3715.9	3945.1	3805.9
42.5°	2987.1	2992.8	2945.8	2818.7	2601.1	2463.0	2413.1	2869.2	4031.0	4348.5	4183.6
45°	3167.6	3203.5	3196.6	3095.0	2938.9	2795.5	2762.5	3177.9	4390.3	4776.2	4583.0
47.5°	3218.6	3251.7	3303.9	3317.8	3222.6	3081.7	3121.1	3550.0	4753.5	5204.5	4984.6
50°	3092.6	3123.4	3231.9	3376.5	3442.6	3399.1	3469.8	3948.6	5125.6	5631.7	5378.6
52.5°	2844.3	2875.6	3012.6	3241.3	3511.0	3648.1	3819.8	4341.6	5486.0	6036.1	5751.8
55°	2485.0	2518.1	2693.9	2952.8	3380.4	3750.8	4111.7	4733.9	5816.2	6400.0	6088.4
57.5°	1996.4	2020.8	2203.5	2565.7	3052.0	3648.6	4327.0	5162.1	6127.2	6757.5	6422.0
60°	1301.1	1322.6	1535.0	1938.9	2507.7	3307.4	4370.0	5639.8	6540.4	7222.4	6871.8
62.5°	865.3	879.8	1005.7	1302.3	1766.0	2652.2	4118.7	6021.1	7146.3	8031.4	7643.1
65°	593.7	608.2	734.1	940.7	1140.9	1754.4	3396.1	5970.5	7695.4	8673.8	8214.8
67.5°	423.6	435.8	542.6	737.6	825.8	1019.1	2302.3	5325.2	7616.5	8698.2	8245.5
70°	303.5	310.5	398.7	574.5	656.4	612.2	1280.2	4072.8	6668.8	8031.9	7617.6
72.5°	212.4	214.7	276.9	437.6	528.7	446.9	609.4	2715.4	5043.7	6304.3	5905.5
75°	143.9	146.8	186.2	320.9	424.2	341.2	322.7	1456.1	2960.9	3489.6	3128.1
77.5°	88.3	89.4	120.1	219.4	317.4	260.0	207.8	616.9	1145.6	1124.7	958.7
80°	49.9	49.9	76.6	136.4	216.5	167.7	145.7	262.3	362.7	318.6	280.8
82.5°	27.9	28.4	55.8	84.8	143.3	99.2	80.1	121.3	156.7	138.7	120.7
85°	11.6	12.8	34.2	40.1	68.5	49.3	32.5	51.0	58.0	51.7	37.7
87.5°	1.1	1.7	10.5	7.6	8.1	9.8	4.6	9.8	8.1	8.1	5.8
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: P960909

CATALOG NUMBER: NAV-SB1D-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4
2.5°	1344.1	1335.4	1313.3	1287.8	1254.1	1237.9	1215.9	1200.7	1188.0	1189.1	1177.5
5°	1370.2	1348.2	1298.8	1237.3	1160.7	1106.2	1048.1	1008.1	975.6	968.6	952.9
7.5°	1406.2	1371.3	1284.8	1174.0	1044.6	946.6	859.0	802.6	762.6	749.8	737.1
10°	1452.6	1402.1	1266.9	1094.5	908.3	783.5	689.4	645.3	618.1	608.7	601.8
12.5°	1506.5	1437.5	1243.1	997.6	767.8	647.7	587.8	565.8	557.1	554.2	552.5
15°	1574.5	1481.6	1207.1	882.7	648.8	564.7	539.2	536.3	537.4	536.3	535.7
17.5°	1655.2	1529.8	1148.5	764.3	568.8	522.3	513.0	515.4	518.2	517.6	516.5
20°	1743.3	1577.4	1073.6	659.3	514.1	492.1	486.9	489.2	491.6	490.4	489.8
22.5°	1843.8	1628.4	990.7	577.5	477.6	464.3	458.5	459.1	459.1	456.7	455.6
25°	1963.9	1684.7	903.6	519.4	449.8	439.3	432.3	430.0	426.5	419.6	418.4
27.5°	2107.2	1744.6	820.0	478.8	427.7	417.9	409.7	404.0	395.2	383.7	382.4
30°	2268.5	1817.0	749.2	453.3	410.3	400.5	391.1	382.4	369.7	355.2	354.0
32.5°	2458.4	1894.8	697.6	436.4	394.6	384.2	373.2	362.7	348.8	334.3	334.9
35°	2684.7	1988.8	667.4	424.8	382.4	368.5	356.3	344.7	334.3	321.5	320.3
37.5°	2930.2	2088.6	658.2	419.0	374.3	352.8	339.0	330.8	329.6	322.1	321.5
40°	3198.8	2207.0	665.1	415.5	365.6	337.7	322.7	320.9	323.8	310.5	311.1
42.5°	3483.3	2347.5	676.7	411.4	353.4	322.7	308.1	308.1	305.9	287.3	287.3
45°	3790.8	2509.4	688.3	401.6	339.0	307.6	296.5	292.5	282.6	264.7	264.0
47.5°	4100.7	2674.2	697.0	383.7	321.5	294.8	285.0	275.6	261.2	244.9	244.4
50°	4394.9	2822.2	687.7	356.9	301.8	282.6	272.1	259.4	243.7	232.7	230.9
52.5°	4657.8	2950.5	648.2	325.5	280.8	269.9	260.6	247.2	234.4	222.8	221.7
55°	4886.5	3054.3	578.6	296.0	262.3	258.8	249.6	232.7	215.4	205.4	204.3
57.5°	5105.8	3133.2	491.6	271.6	245.5	246.6	232.7	217.6	201.4	191.0	189.7
60°	5397.8	3238.9	403.3	249.0	227.4	230.9	215.9	204.9	184.5	171.2	169.4
62.5°	5864.3	3403.1	320.3	221.1	206.6	207.8	201.4	188.0	163.7	148.0	146.8
65°	6234.7	3342.7	252.5	191.0	182.8	184.5	184.5	170.0	143.9	126.0	124.2
67.5°	6192.8	2862.2	201.4	161.3	160.2	161.3	165.4	153.2	127.7	113.2	110.8
70°	5704.7	2276.7	161.3	134.1	139.3	136.4	148.0	139.9	114.9	100.4	98.7
72.5°	4654.9	1640.0	123.0	110.8	106.8	111.4	133.5	126.0	95.7	79.5	77.8
75°	2720.0	875.1	91.7	87.6	77.2	92.9	118.4	107.3	73.1	58.6	56.9
77.5°	885.6	305.2	67.3	64.4	57.5	74.8	101.0	90.5	59.8	46.4	44.7
80°	237.4	92.2	45.8	42.3	37.1	55.8	80.1	72.0	42.9	30.1	29.6
82.5°	95.2	38.8	26.6	23.8	20.3	38.3	63.2	58.0	31.9	19.2	19.2
85°	30.7	12.8	9.8	7.6	9.3	23.8	37.7	39.5	22.7	9.8	7.6
87.5°	4.1	1.7	1.7	2.4	1.7	4.1	11.6	11.1	6.4	1.1	0.0
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)