

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: P960465

Luminaire Tested: **NAV-SB1C-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

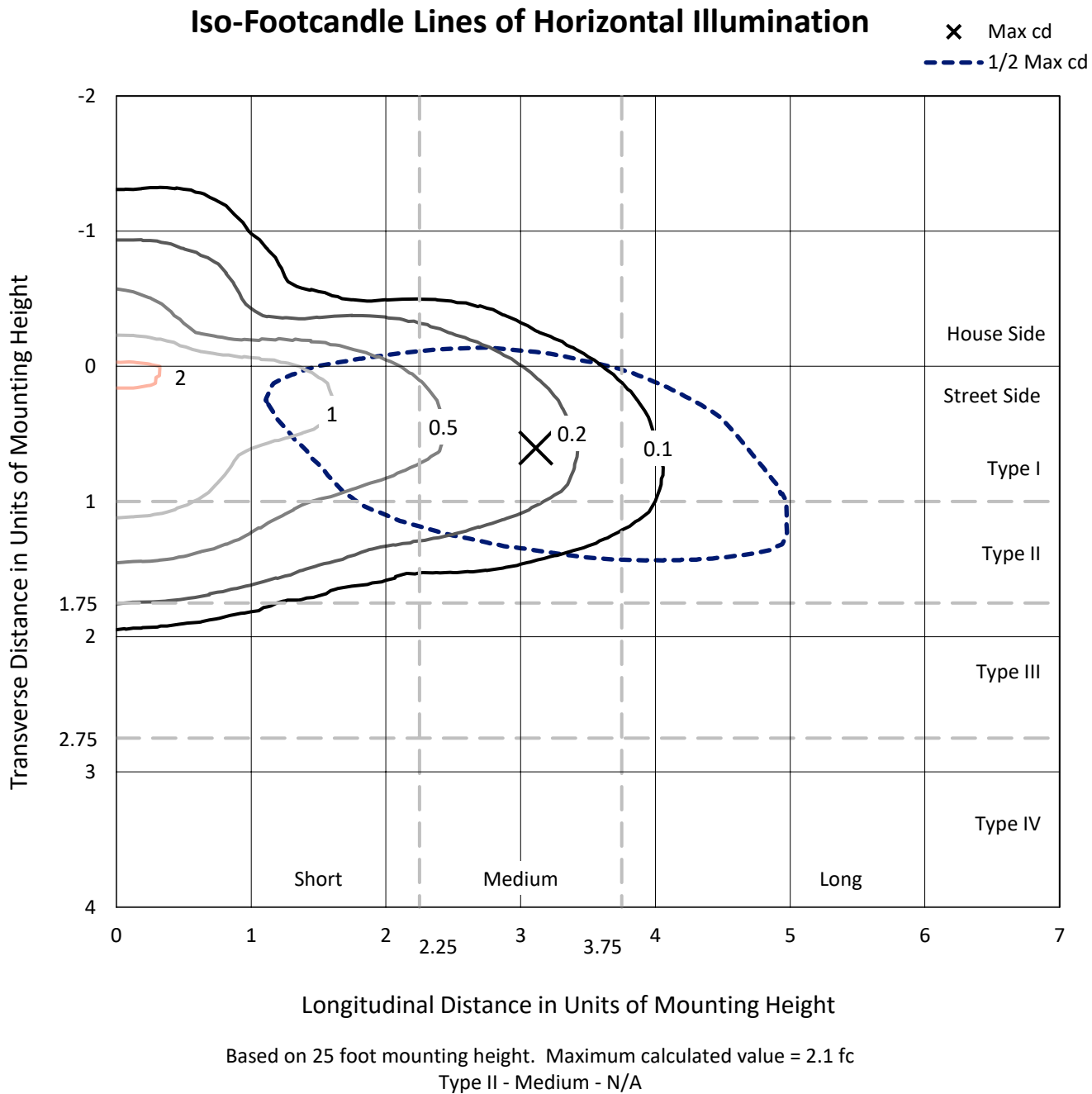
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6636.9 lumens
Efficiency: N/A
Efficacy: 122.0 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): 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

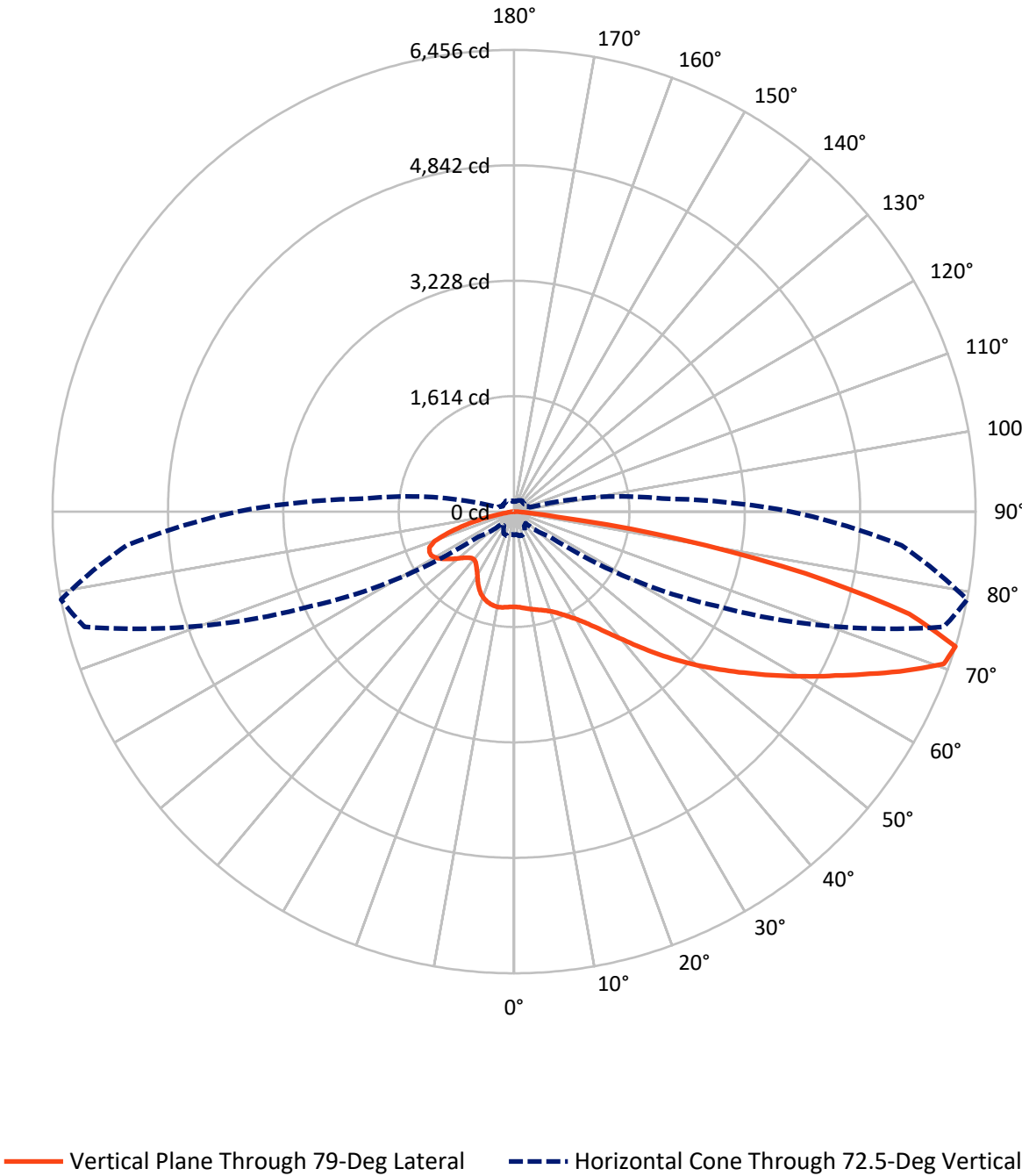


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1460.5	0.0	1460.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5176.4	0.0	5176.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	6636.9	0.0	6636.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	1.8
10°-20°	316.2	4.8
20°-30°	510.2	7.7
30°-40°	765.7	11.5
40°-50°	1086.2	16.4
50°-60°	1371.7	20.7
60°-70°	1393.2	21.0
70°-80°	949.5	14.3
80°-90°	123.2	1.9
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°	6636.9	100.0
0°-180°	6636.9	100.0

Coefficient of Utilization



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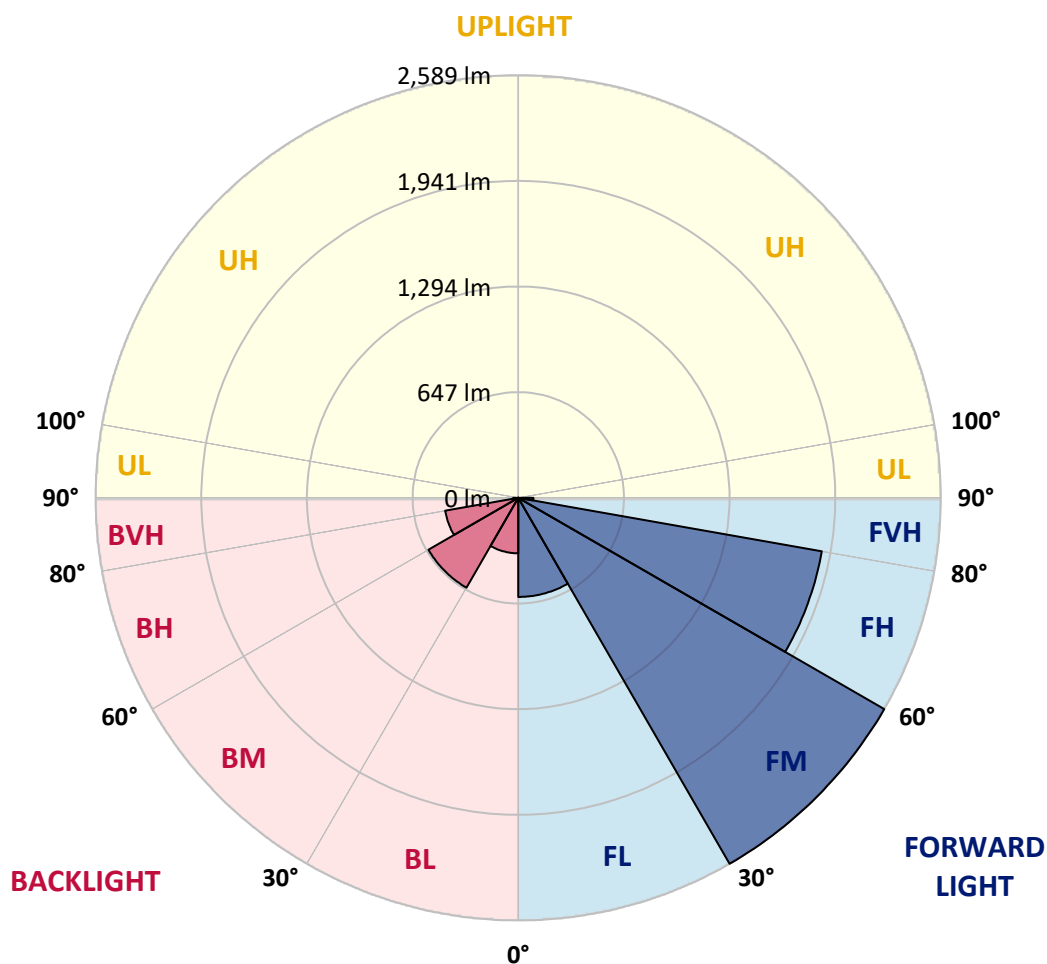
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.1	9.1			
FM	(30°-60°)	2588.5	39.0			
FH	(60°-80°)	1888.0	28.4			G2/5000
FVH	(80°-90°)	92.8	1.4			G1/100
BL	(0°-30°)	340.2	5.1	B1/500		
BM	(30°-60°)	635.2	9.6	B1/1000		
BH	(60°-80°)	454.7	6.9	B1/500		G1/500
BVH	(80°-90°)	30.4	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3
2.5°	1333.0	1326.7	1330.6	1329.1	1330.9	1333.0	1333.7	1334.8	1338.2	1337.9	1337.5
5°	1330.1	1323.9	1329.1	1327.4	1332.0	1336.8	1341.1	1344.9	1350.5	1353.0	1349.5
7.5°	1324.2	1320.0	1325.2	1330.6	1339.0	1346.3	1352.3	1361.1	1369.2	1370.5	1373.0
10°	1289.4	1286.3	1298.6	1312.3	1335.5	1355.5	1368.5	1378.6	1387.4	1388.8	1392.4
12.5°	1253.3	1249.5	1263.1	1281.8	1319.3	1355.5	1382.8	1396.2	1403.9	1408.5	1413.8
15°	1247.3	1244.1	1251.9	1268.0	1299.3	1346.0	1392.7	1417.3	1423.9	1429.2	1431.3
17.5°	1276.1	1270.2	1273.4	1278.9	1297.1	1337.2	1400.4	1441.1	1451.3	1456.9	1456.9
20°	1342.9	1334.3	1329.5	1318.3	1315.1	1338.6	1399.7	1470.0	1483.3	1490.2	1492.0
22.5°	1431.6	1426.0	1415.5	1387.0	1356.2	1355.8	1413.1	1506.7	1531.7	1538.3	1534.1
25°	1539.0	1530.6	1517.3	1478.7	1419.3	1389.9	1435.5	1553.8	1595.6	1597.4	1585.1
27.5°	1662.7	1650.0	1631.7	1580.9	1500.8	1443.2	1470.0	1607.9	1669.0	1668.3	1643.0
30°	1792.9	1780.2	1761.0	1699.1	1598.4	1515.2	1517.6	1666.1	1756.0	1752.1	1709.0
32.5°	1888.0	1878.5	1874.7	1827.0	1710.7	1600.1	1572.5	1730.7	1863.4	1860.0	1799.6
35°	1961.0	1948.7	1953.3	1929.0	1833.2	1695.2	1639.5	1807.6	1994.0	1993.7	1918.6
37.5°	2033.4	2022.5	2026.3	2010.2	1946.7	1816.1	1721.3	1901.7	2155.9	2163.6	2062.5
40°	2099.4	2087.8	2103.2	2088.1	2034.7	1944.5	1814.2	2008.1	2343.4	2358.1	2236.7
42.5°	2139.1	2130.0	2155.6	2155.9	2111.3	2053.1	1916.4	2125.3	2560.3	2593.4	2450.8
45°	2152.7	2149.5	2188.2	2196.3	2179.0	2115.9	2008.5	2253.2	2794.1	2853.1	2694.7
47.5°	2137.9	2132.0	2185.4	2215.2	2228.9	2145.3	2084.6	2391.4	3032.9	3119.2	2960.9
50°	2063.5	2051.9	2131.3	2194.1	2242.9	2164.7	2161.5	2551.2	3304.2	3398.7	3228.3
52.5°	1929.8	1921.1	2011.3	2120.4	2212.1	2174.1	2247.8	2725.7	3561.9	3684.1	3502.5
55°	1758.8	1747.2	1846.6	1989.1	2135.2	2171.0	2334.2	2920.8	3865.9	3989.8	3785.8
57.5°	1487.8	1464.6	1590.3	1758.8	2009.8	2167.2	2424.1	3115.0	4174.8	4323.3	4088.1
60°	1092.5	1058.1	1212.3	1411.9	1764.8	2129.5	2535.3	3332.7	4545.6	4679.3	4418.2
62.5°	636.1	616.1	716.9	903.3	1330.1	1908.3	2597.9	3585.8	4910.0	5050.4	4742.6
65°	493.9	488.3	497.1	511.5	740.4	1428.8	2405.2	3832.6	5373.4	5471.7	5080.6
67.5°	451.8	447.6	451.5	424.5	375.7	795.9	1902.8	3895.1	5869.8	5929.5	5376.5
70°	401.6	396.7	409.4	386.2	295.6	361.9	1229.4	3668.3	6264.7	6376.7	5601.6
72.5°	327.2	321.5	351.1	340.5	248.9	232.4	617.6	3129.4	6223.3	6455.8	5440.5
75°	251.3	248.2	283.3	292.1	203.0	182.9	296.3	2326.1	5476.6	5710.8	4688.9
77.5°	195.2	192.7	210.6	242.6	163.6	141.9	182.2	1475.5	4127.2	4168.2	3231.2
80°	146.4	139.4	155.9	187.8	127.4	103.5	123.6	860.5	2608.7	2364.8	1406.4
82.5°	91.6	88.1	101.8	125.4	89.9	71.2	80.4	475.3	1045.5	615.7	271.4
85°	52.3	50.9	55.5	71.6	48.8	41.1	46.0	209.9	191.0	131.3	81.8
87.5°	21.1	20.4	25.3	32.0	17.9	15.1	16.2	50.5	42.1	38.9	27.1
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°	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3	1332.3
2.5°	1336.2	1336.2	1331.3	1323.5	1314.8	1309.1	1300.0	1297.5	1288.0	1285.2	1289.9
5°	1352.3	1349.5	1334.3	1312.6	1282.8	1255.4	1225.2	1206.2	1179.6	1170.1	1177.1
7.5°	1372.7	1364.9	1339.0	1291.2	1228.8	1167.3	1103.4	1054.9	1008.6	992.1	994.2
10°	1391.2	1380.4	1336.2	1252.6	1144.5	1038.1	936.3	865.0	811.0	788.8	793.8
12.5°	1409.9	1389.9	1317.5	1188.4	1024.8	880.5	772.0	716.5	683.2	656.5	665.2
15°	1427.4	1399.3	1288.7	1102.4	893.5	747.0	667.1	622.8	596.1	578.5	581.7
17.5°	1447.8	1407.4	1245.6	993.1	768.4	654.8	589.5	562.7	557.5	555.3	556.8
20°	1476.2	1414.8	1188.7	870.9	676.5	581.0	547.3	544.9	544.5	543.5	546.9
22.5°	1506.7	1423.5	1113.6	760.0	598.2	535.0	529.1	524.2	521.0	520.6	524.5
25°	1542.9	1426.4	1019.5	669.1	531.5	513.2	506.2	498.9	496.7	496.7	498.9
27.5°	1578.0	1416.9	910.0	590.1	493.9	493.2	484.1	481.6	481.3	482.4	485.1
30°	1613.1	1399.0	801.1	517.1	472.2	472.2	469.0	470.8	472.2	475.7	478.2
32.5°	1660.5	1380.1	710.2	463.1	453.3	449.7	452.8	456.4	457.8	462.4	466.2
35°	1730.0	1366.7	637.9	433.6	433.6	429.0	430.7	430.1	426.9	424.8	429.7
37.5°	1822.0	1366.0	578.2	419.8	417.1	416.4	416.7	412.2	399.9	385.1	385.5
40°	1932.6	1385.0	532.2	410.4	408.3	412.5	410.4	398.1	364.4	338.8	338.0
42.5°	2081.2	1439.0	502.8	398.8	405.1	410.4	402.0	359.5	336.7	319.5	318.8
45°	2255.9	1526.7	487.6	386.5	399.1	405.5	364.8	346.1	327.9	307.2	305.8
47.5°	2454.0	1637.3	484.1	374.9	385.8	389.7	348.9	340.5	319.8	297.4	295.6
50°	2669.5	1768.3	493.6	361.2	366.5	353.2	343.7	336.0	314.6	292.4	290.0
52.5°	2892.4	1912.6	512.6	342.7	347.2	332.4	341.6	334.9	311.4	281.6	279.4
55°	3111.5	2057.9	530.8	320.8	327.6	313.9	335.6	330.7	297.0	263.3	261.6
57.5°	3334.0	2202.6	548.7	301.6	308.6	295.9	326.2	319.5	280.8	246.4	245.8
60°	3565.4	2343.0	557.2	283.0	287.9	279.4	311.7	300.1	262.6	229.3	228.2
62.5°	3782.0	2459.9	543.5	264.3	267.5	264.0	292.7	277.4	244.4	209.9	209.6
65°	3999.3	2529.4	501.3	246.1	246.8	245.1	266.1	252.8	222.9	193.1	191.0
67.5°	4196.2	2568.3	434.3	226.4	224.7	224.0	241.2	226.1	202.2	176.2	174.1
70°	4238.1	2469.4	331.8	203.3	203.3	201.5	213.8	198.3	179.4	158.4	157.6
72.5°	3870.8	2077.3	235.5	176.9	179.8	176.2	186.4	173.4	156.2	142.2	138.0
75°	3121.3	1523.3	171.3	149.9	154.8	148.8	158.4	149.2	134.5	134.1	120.7
77.5°	2144.6	941.9	124.2	123.6	127.1	119.4	130.3	125.4	112.0	106.0	99.3
80°	915.2	375.7	90.6	95.5	95.5	88.5	101.1	102.5	90.9	88.1	88.1
82.5°	182.2	106.7	63.6	65.6	61.8	59.7	71.6	79.3	109.6	121.8	122.2
85°	54.7	39.4	38.2	35.8	31.6	32.0	42.1	79.6	98.3	56.2	48.5
87.5°	15.1	9.8	10.1	8.1	6.7	8.8	14.3	60.4	33.0	14.0	11.9
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)