

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: P961521

Luminaire Tested: **NAV-SB2A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

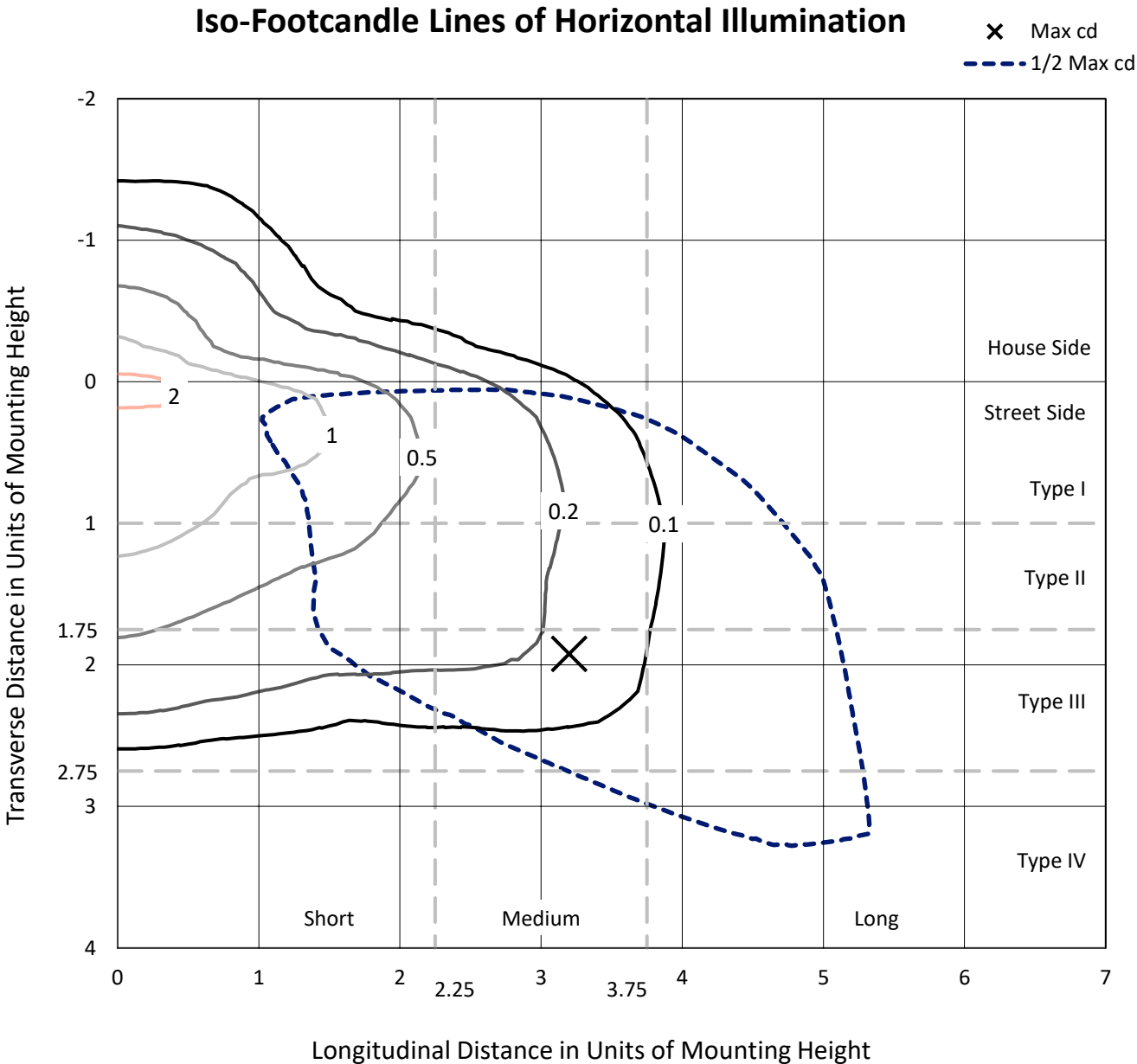
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7814.6 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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



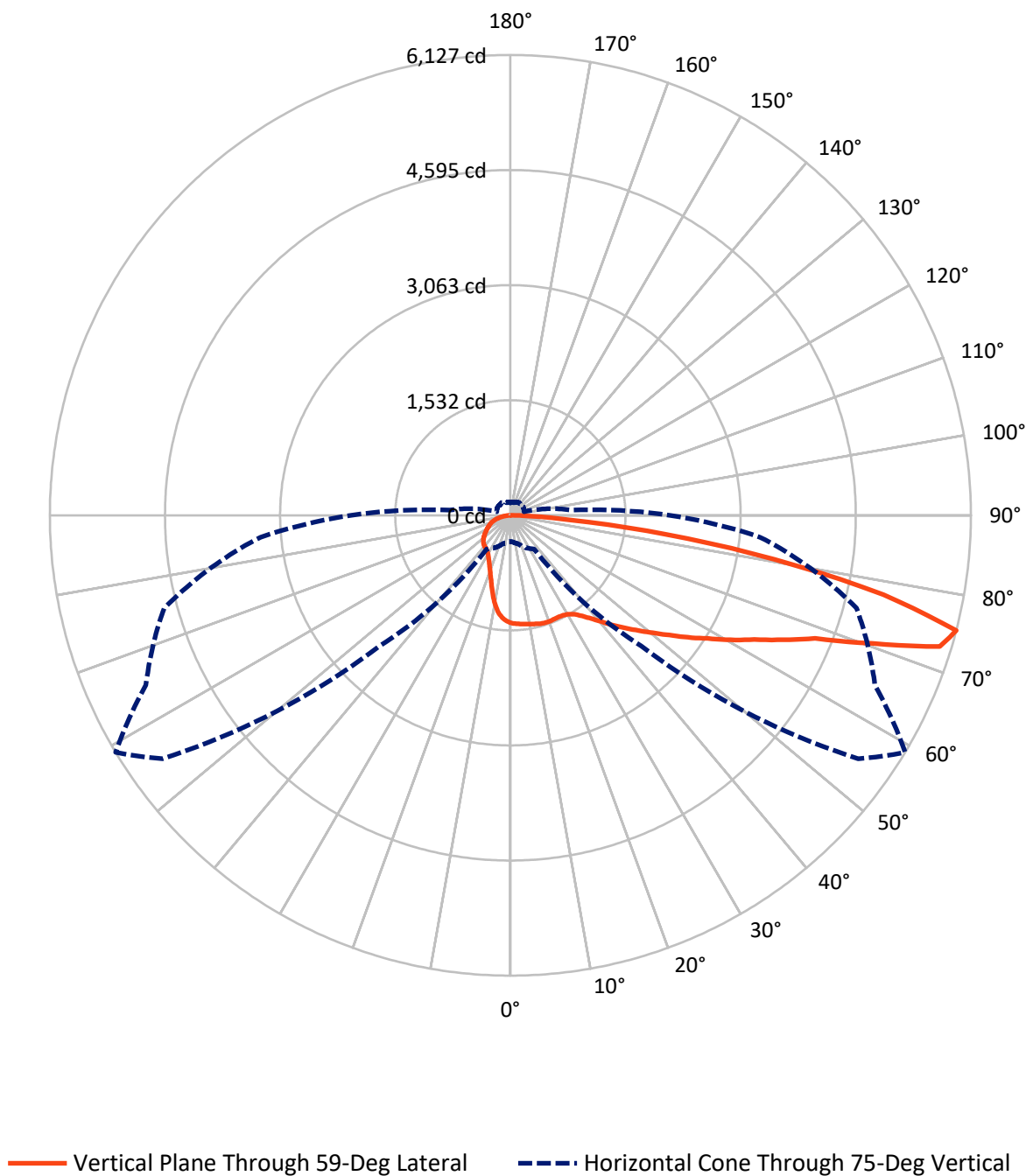
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Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.7	0.0	1465.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6348.9	0.0	6348.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	7814.6	0.0	7814.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	1.6
10°-20°	328.7	4.2
20°-30°	499.3	6.4
30°-40°	742.2	9.5
40°-50°	1103.9	14.1
50°-60°	1498.3	19.2
60°-70°	1829.2	23.4
70°-80°	1435.6	18.4
80°-90°	248.7	3.2
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°	7814.6	100.0
0°-180°	7814.6	100.0

Coefficient of Utilization



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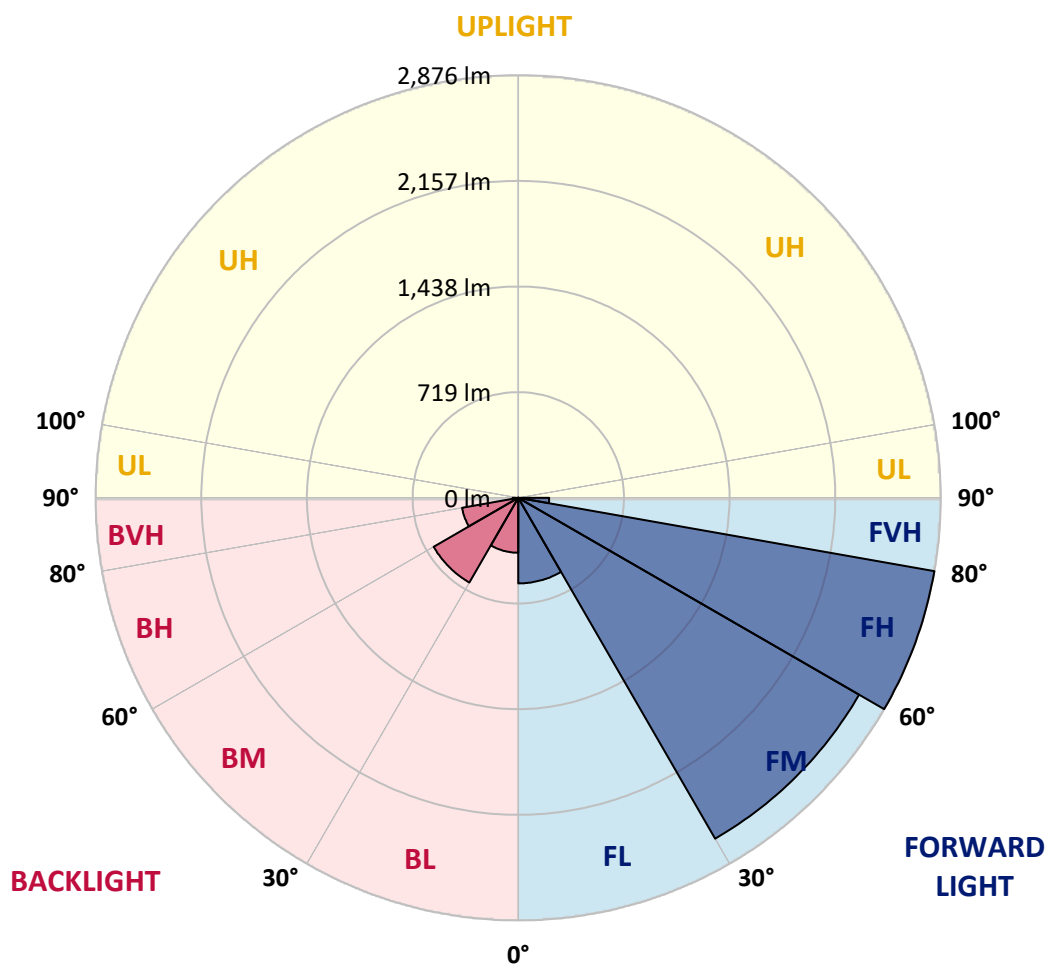
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.7	7.5			
FM	(30°-60°)	2679.2	34.3			
FH	(60°-80°)	2876.5	36.8			G2/5000
FVH	(80°-90°)	210.6	2.7			G2/225
BL	(0°-30°)	374.0	4.8	B1/500		
BM	(30°-60°)	665.3	8.5	B1/1000		
BH	(60°-80°)	388.3	5.0	B1/500		G1/500
BVH	(80°-90°)	38.1	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
2.5°	1446.6	1441.5	1446.6	1444.4	1443.6	1442.0	1442.4	1445.2	1443.6	1445.7	1438.6
5°	1436.8	1434.0	1439.0	1437.7	1443.2	1444.0	1449.5	1452.8	1455.0	1455.4	1449.9
7.5°	1420.9	1418.0	1425.1	1431.0	1442.8	1446.2	1457.4	1463.0	1465.9	1470.9	1463.0
10°	1362.4	1361.2	1378.8	1401.2	1428.8	1446.2	1463.4	1472.6	1477.2	1490.7	1481.4
12.5°	1259.0	1260.8	1283.8	1326.8	1382.2	1437.7	1470.1	1483.6	1490.7	1507.5	1503.3
15°	1160.3	1159.9	1185.1	1230.9	1308.6	1400.8	1473.4	1496.6	1508.8	1533.6	1530.2
17.5°	1103.1	1101.4	1119.1	1153.9	1226.3	1344.0	1465.0	1503.7	1529.8	1560.9	1557.9
20°	1092.5	1089.3	1098.5	1115.7	1167.0	1281.8	1443.2	1503.7	1546.6	1586.9	1585.3
22.5°	1130.9	1125.3	1121.6	1119.5	1142.2	1230.5	1418.4	1498.7	1571.4	1624.3	1621.4
25°	1207.8	1199.4	1180.0	1161.1	1154.4	1207.3	1396.6	1497.4	1608.4	1674.8	1663.9
27.5°	1332.2	1321.7	1282.6	1237.2	1196.4	1219.1	1386.8	1505.0	1649.1	1728.3	1706.3
30°	1486.5	1475.2	1426.0	1356.2	1283.0	1262.8	1399.0	1527.2	1701.3	1799.3	1756.3
32.5°	1624.8	1612.2	1570.1	1499.1	1400.3	1338.5	1437.7	1569.7	1783.3	1898.0	1831.6
35°	1747.5	1732.9	1694.9	1629.4	1544.1	1444.8	1507.5	1644.9	1899.7	2058.6	1933.8
37.5°	1867.8	1850.5	1809.3	1739.9	1680.3	1586.5	1603.8	1741.7	2054.4	2253.7	2069.2
40°	2002.3	1977.5	1927.5	1858.9	1800.9	1752.5	1730.3	1860.2	2211.6	2471.5	2238.1
42.5°	2132.6	2109.0	2049.4	1991.0	1918.2	1904.3	1877.0	1999.0	2383.5	2710.6	2409.7
45°	2273.0	2244.9	2172.6	2098.6	2052.8	2005.2	2019.1	2137.6	2552.1	2954.5	2589.6
47.5°	2404.6	2373.1	2287.7	2205.3	2180.1	2090.2	2149.4	2290.3	2727.4	3201.7	2767.8
50°	2475.7	2444.5	2373.5	2299.1	2279.3	2194.8	2290.7	2458.0	2911.2	3448.0	2938.9
52.5°	2534.9	2501.3	2408.3	2367.1	2361.3	2308.7	2464.7	2649.7	3094.9	3665.7	3104.1
55°	2598.0	2560.6	2442.1	2405.1	2431.9	2436.5	2671.1	2867.0	3289.1	3878.1	3260.1
57.5°	2670.7	2623.2	2474.4	2436.9	2500.9	2586.2	2908.2	3092.3	3480.0	4074.8	3398.8
60°	2739.2	2691.3	2536.6	2487.9	2575.3	2759.8	3180.2	3365.2	3696.0	4250.1	3530.0
62.5°	2752.6	2713.2	2586.2	2585.8	2676.2	2962.5	3502.2	3640.5	3884.7	4423.3	3647.7
65°	2519.8	2495.0	2419.7	2582.0	2820.8	3254.2	3860.8	3992.8	4124.8	4574.6	3751.1
67.5°	1917.8	1921.2	1915.7	2228.9	2704.0	3673.3	4380.0	4369.9	4421.2	4744.4	3870.1
70°	876.9	896.7	1025.3	1538.6	2166.2	3721.7	5238.4	5107.7	4793.2	4964.3	3973.1
72.5°	473.8	488.9	541.4	745.4	1302.4	3308.8	5879.9	5972.8	5288.0	5112.3	3859.9
75°	347.7	356.1	392.7	473.8	546.9	2459.3	5650.0	6126.7	5349.8	4767.2	3333.2
77.5°	260.2	264.0	293.9	375.4	279.9	1296.4	4514.5	5074.1	4579.7	3916.7	2462.2
80°	188.7	193.0	215.2	281.7	196.3	474.2	3099.9	3561.5	3136.5	2496.7	1227.1
82.5°	130.3	132.0	141.7	191.7	137.0	184.1	1758.9	2088.4	1750.9	876.1	331.3
85°	78.6	80.7	84.9	111.8	77.8	87.4	759.2	785.3	523.4	209.3	103.0
87.5°	32.4	34.4	37.8	47.0	30.6	24.4	125.3	157.2	98.0	61.4	32.0
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°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
2.5°	1436.4	1433.5	1425.6	1414.6	1404.5	1391.8	1386.4	1381.8	1377.6	1369.6	1365.8
5°	1445.2	1437.3	1415.8	1388.2	1356.6	1322.1	1288.5	1265.4	1245.6	1230.9	1218.7
7.5°	1458.8	1443.6	1404.5	1347.8	1275.4	1201.5	1134.6	1087.1	1051.3	1038.3	1015.7
10°	1472.6	1454.6	1386.4	1286.4	1161.5	1047.6	958.9	910.1	881.5	872.3	858.0
12.5°	1489.0	1462.5	1358.2	1201.0	1034.1	909.3	831.9	803.4	788.6	783.6	784.8
15°	1513.0	1469.2	1315.8	1094.3	912.7	808.4	758.4	738.6	731.0	730.6	732.3
17.5°	1531.0	1470.5	1249.8	979.9	819.3	747.4	706.2	698.6	703.8	711.2	714.2
20°	1551.2	1459.2	1163.2	875.7	753.8	694.0	676.8	681.8	694.0	705.0	708.8
22.5°	1565.5	1438.6	1058.5	794.5	697.0	663.4	662.6	673.0	679.8	685.2	688.2
25°	1578.1	1403.6	947.5	726.4	650.4	644.8	654.2	650.8	646.2	650.8	653.7
27.5°	1587.4	1348.6	848.3	666.8	617.6	632.2	626.8	619.2	618.8	621.4	625.6
30°	1584.4	1275.0	766.8	610.0	594.4	608.7	595.7	594.4	593.2	594.4	599.0
32.5°	1584.4	1191.4	704.2	570.9	579.7	574.2	573.0	570.0	565.0	564.6	570.0
35°	1593.3	1107.7	650.4	549.9	567.5	554.5	555.3	548.2	537.7	532.6	537.7
37.5°	1611.3	1040.5	597.0	539.8	546.1	545.7	542.3	530.1	511.6	495.6	501.1
40°	1655.1	1020.7	560.4	535.2	536.0	541.0	532.2	508.7	466.6	440.5	443.9
42.5°	1723.5	1053.9	552.4	523.8	529.3	534.3	517.1	462.4	432.6	417.1	417.1
45°	1810.6	1111.9	569.6	507.4	513.3	522.1	470.8	444.7	431.3	431.7	433.9
47.5°	1920.7	1172.9	601.6	493.1	490.2	495.2	440.1	424.1	405.7	410.3	422.1
50°	2048.2	1234.7	631.8	473.8	464.5	448.1	420.4	405.3	381.7	370.7	373.7
52.5°	2186.0	1294.4	644.0	450.3	436.8	417.9	406.9	388.5	359.9	341.7	341.3
55°	2316.7	1348.6	630.6	422.1	409.1	394.3	392.7	381.3	350.5	325.3	325.3
57.5°	2440.3	1394.0	597.0	393.5	380.9	372.1	383.3	377.9	339.3	306.9	305.2
60°	2545.0	1425.1	548.2	364.5	355.7	351.1	368.3	366.5	323.3	287.1	285.9
62.5°	2628.2	1437.3	494.4	336.7	334.7	326.3	347.3	347.3	303.1	267.8	266.5
65°	2693.4	1425.6	439.7	309.4	313.6	301.0	321.6	319.1	281.7	250.5	248.9
67.5°	2751.0	1386.8	379.1	282.5	292.1	276.2	294.7	288.8	258.1	233.3	231.6
70°	2776.6	1296.9	310.3	255.6	267.3	251.8	267.8	256.9	231.6	214.8	211.5
72.5°	2570.7	1077.9	244.3	227.4	237.5	224.9	238.8	226.2	203.1	195.5	189.2
75°	2126.8	808.8	187.9	196.7	204.3	194.6	203.9	194.6	173.6	179.1	163.5
77.5°	1544.5	546.1	143.8	164.4	167.7	162.7	170.7	160.2	141.2	140.0	133.7
80°	768.0	319.9	112.6	129.9	128.6	125.3	134.5	129.5	113.5	120.2	119.0
82.5°	222.4	137.0	82.0	91.2	88.7	89.6	96.2	98.8	148.0	146.7	150.1
85°	69.8	53.8	49.2	50.8	48.4	49.6	56.8	112.6	104.2	61.0	66.0
87.5°	18.0	18.4	12.2	13.0	13.4	16.0	18.0	68.6	32.8	21.4	22.7
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)