

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: P959721

Luminaire Tested: **NAV-SB1B-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959721
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-SB1B-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4740.6 lumens
Efficiency: N/A
Efficacy: 119.1 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

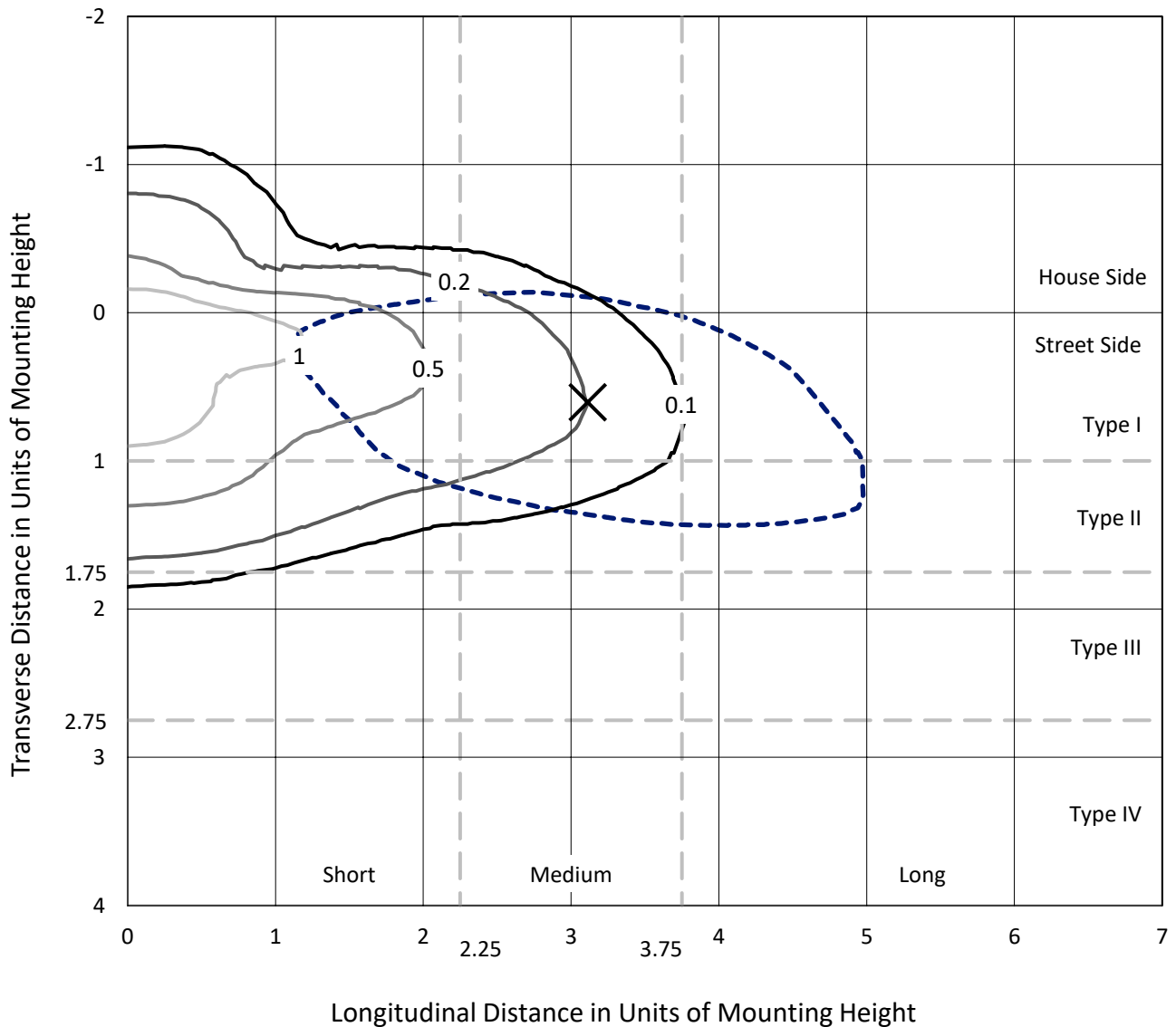
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

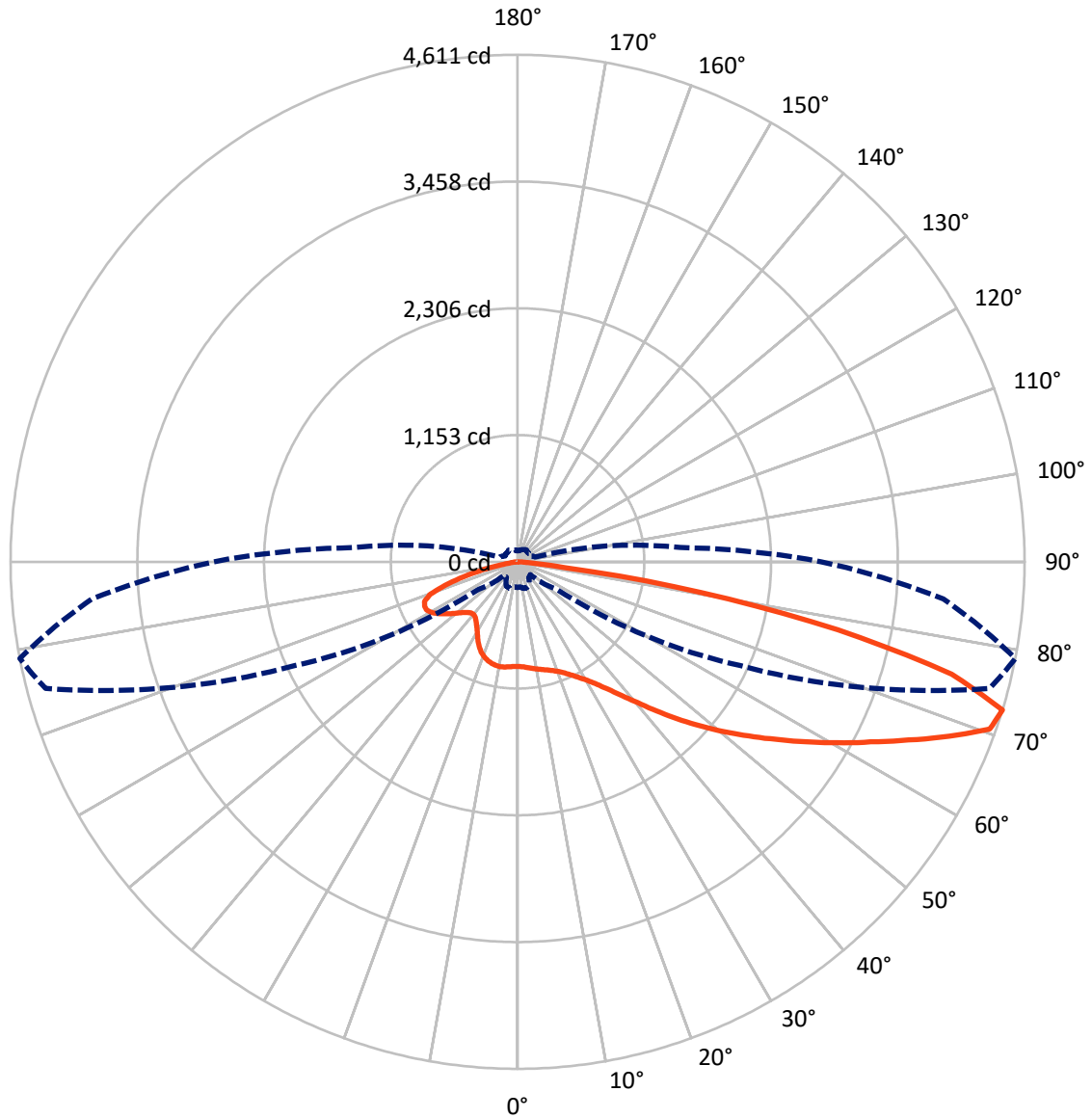
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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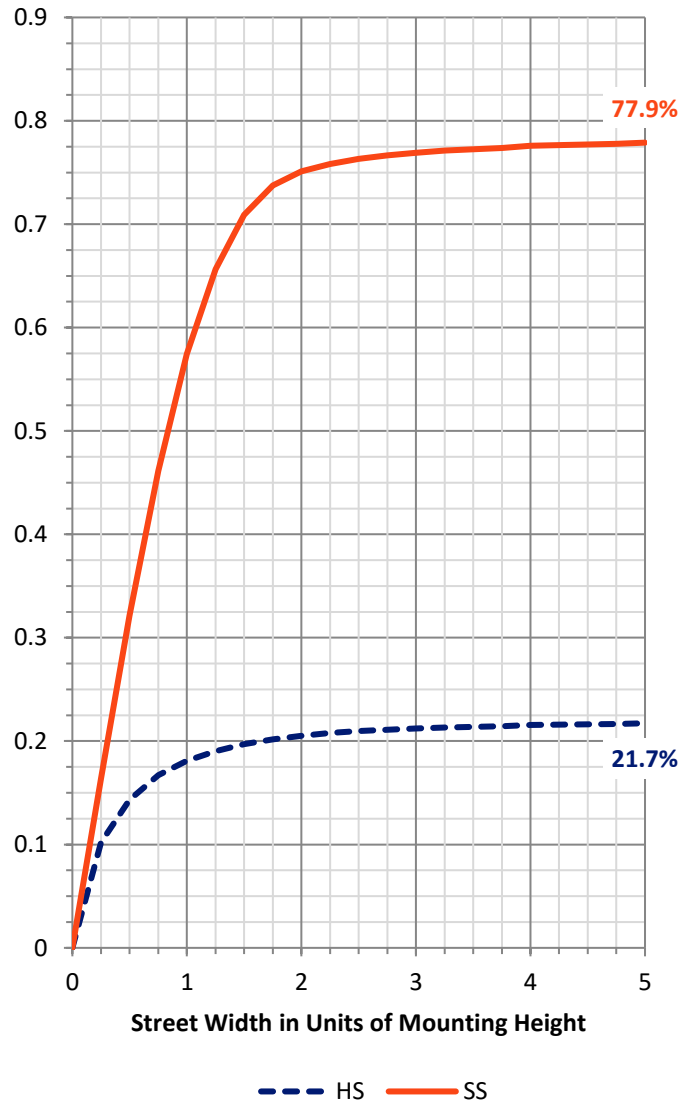
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1043.2	0.0	1043.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3697.4	0.0	3697.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	4740.6	0.0	4740.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.8
10°-20°	225.8	4.8
20°-30°	364.4	7.7
30°-40°	546.9	11.5
40°-50°	775.9	16.4
50°-60°	979.8	20.7
60°-70°	995.1	21.0
70°-80°	678.2	14.3
80°-90°	88.0	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°	4740.6	100.0
0°-180°	4740.6	100.0

Coefficient of Utilization

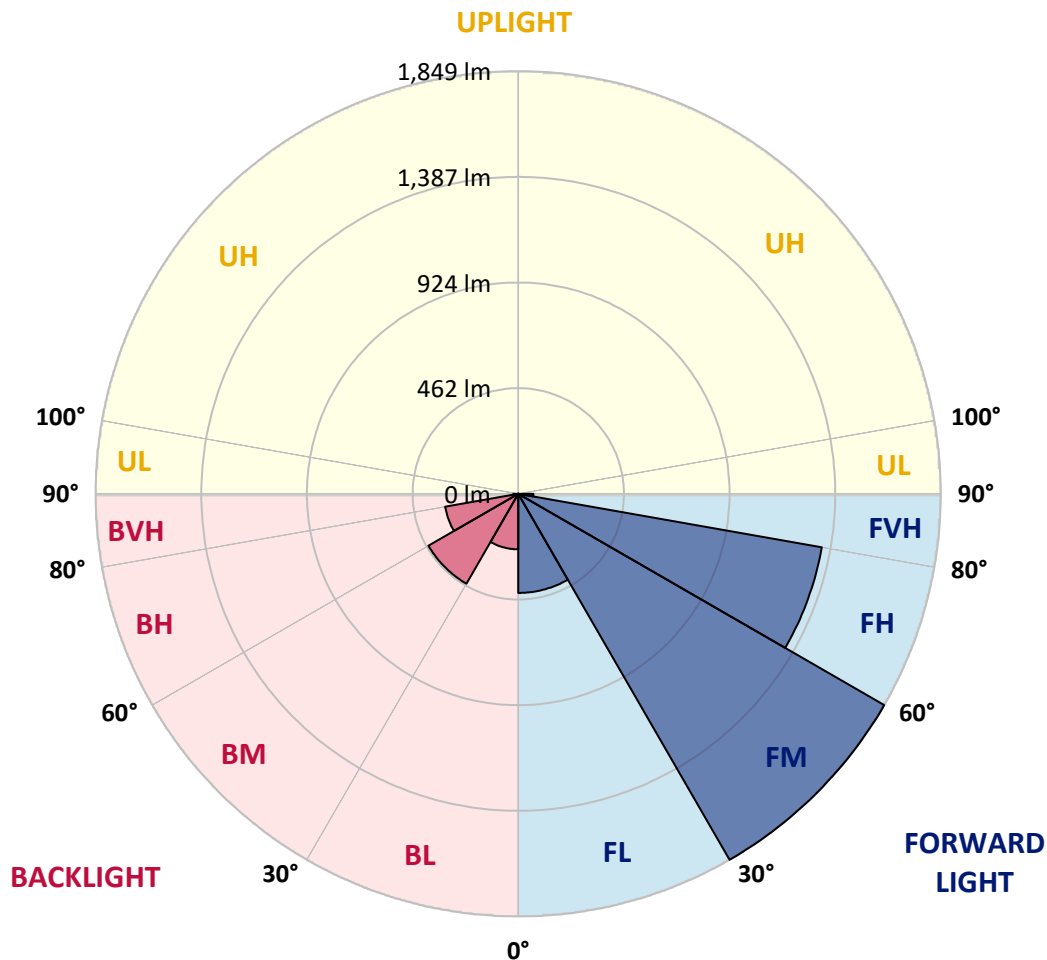


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.6	9.1			
FM (30°-60°)	1848.9	39.0			
FH (60°-80°)	1348.5	28.4			G1/1800
FVH (80°-90°)	66.3	1.4			G1/100
BL (0°-30°)	243.0	5.1	B1/500		
BM (30°-60°)	453.7	9.6	B1/1000		
BH (60°-80°)	324.8	6.9	B1/500		G1/500
BVH (80°-90°)	21.7	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°	79°	85°
0°	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6
2.5°	952.1	947.6	950.4	949.4	950.6	952.1	952.6	953.4	955.9	955.6	955.4
5°	950.2	945.7	949.4	948.1	951.4	954.9	957.9	960.6	964.6	966.5	963.9
7.5°	945.9	942.9	946.6	950.4	956.4	961.7	966.0	972.2	978.0	979.0	980.7
10°	921.1	918.8	927.5	937.4	953.9	968.2	977.4	984.7	991.0	992.0	994.6
12.5°	895.2	892.5	902.2	915.5	942.4	968.2	987.8	997.3	1002.8	1006.0	1009.8
15°	890.9	888.7	894.2	905.8	928.0	961.4	994.8	1012.3	1017.1	1020.8	1022.3
17.5°	911.5	907.2	909.5	913.5	926.6	955.1	1000.3	1029.4	1036.7	1040.7	1040.7
20°	959.2	953.1	949.7	941.6	939.3	956.1	999.8	1049.9	1059.4	1064.5	1065.7
22.5°	1022.6	1018.5	1011.1	990.8	968.7	968.4	1009.3	1076.2	1094.1	1098.8	1095.8
25°	1099.3	1093.3	1083.8	1056.2	1013.8	992.7	1025.4	1109.9	1139.7	1140.9	1132.2
27.5°	1187.6	1178.5	1165.5	1129.1	1072.0	1030.8	1049.9	1148.5	1192.1	1191.6	1173.5
30°	1280.6	1271.6	1257.8	1213.7	1141.7	1082.3	1084.0	1190.1	1254.3	1251.5	1220.7
32.5°	1348.6	1341.8	1339.1	1304.9	1222.0	1143.0	1123.2	1236.3	1331.1	1328.5	1285.4
35°	1400.8	1391.9	1395.2	1377.9	1309.4	1210.9	1171.1	1291.2	1424.3	1424.0	1370.4
37.5°	1452.4	1444.6	1447.4	1435.8	1390.5	1297.1	1229.5	1358.3	1540.0	1545.4	1473.2
40°	1499.6	1491.3	1502.3	1491.5	1453.4	1389.0	1295.9	1434.4	1673.8	1684.4	1597.6
42.5°	1527.9	1521.4	1539.7	1540.0	1508.1	1466.5	1368.9	1518.1	1828.8	1852.4	1750.6
45°	1537.7	1535.4	1563.0	1568.8	1556.5	1511.4	1434.6	1609.4	1995.8	2037.9	1924.8
47.5°	1527.1	1522.8	1561.0	1582.3	1592.0	1532.4	1489.0	1708.2	2166.3	2228.0	2114.9
50°	1473.9	1465.6	1522.3	1567.2	1602.1	1546.2	1544.0	1822.2	2360.2	2427.6	2305.9
52.5°	1378.4	1372.2	1436.6	1514.6	1580.0	1553.0	1605.7	1946.9	2544.3	2631.5	2501.8
55°	1256.3	1248.0	1319.0	1420.9	1525.1	1550.7	1667.3	2086.3	2761.4	2849.9	2704.2
57.5°	1062.7	1046.2	1135.9	1256.3	1435.6	1548.0	1731.5	2225.0	2982.0	3088.1	2920.1
60°	780.3	755.8	865.9	1008.6	1260.5	1521.1	1811.0	2380.5	3246.9	3342.4	3155.8
62.5°	454.4	440.1	512.1	645.2	950.2	1363.1	1855.7	2561.3	3507.1	3607.5	3387.5
65°	352.8	348.8	355.1	365.3	528.9	1020.6	1718.0	2737.6	3838.1	3908.3	3629.0
67.5°	322.8	319.7	322.5	303.2	268.3	568.5	1359.1	2782.2	4192.8	4235.3	3840.4
70°	286.9	283.3	292.4	275.8	211.2	258.5	878.1	2620.2	4474.8	4554.8	4001.1
72.5°	233.7	229.7	250.7	243.2	177.8	166.0	441.1	2235.3	4445.2	4611.3	3886.1
75°	179.6	177.3	202.3	208.6	144.9	130.7	211.7	1661.5	3911.8	4079.1	3349.2
77.5°	139.4	137.7	150.5	173.2	116.8	101.3	130.2	1053.9	2947.9	2977.3	2308.0
80°	104.6	99.5	111.3	134.2	91.0	74.0	88.3	614.6	1863.4	1689.1	1004.5
82.5°	65.5	62.9	72.7	89.5	64.2	50.9	57.4	339.5	746.8	439.8	193.8
85°	37.4	36.4	39.7	51.1	34.8	29.3	32.8	150.0	136.4	93.8	58.4
87.5°	15.1	14.6	18.0	22.9	12.8	10.8	11.6	36.1	30.1	27.9	19.3
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°	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6
2.5°	954.4	954.4	950.9	945.4	939.1	935.1	928.5	926.8	920.0	918.0	921.3
5°	966.0	963.9	953.1	937.6	916.2	896.7	875.1	861.6	842.6	835.8	840.8
7.5°	980.5	975.0	956.4	922.3	877.7	833.7	788.1	753.6	720.5	708.7	710.1
10°	993.7	985.9	954.4	894.7	817.4	741.5	668.8	617.9	579.2	563.4	566.9
12.5°	1007.1	992.7	941.1	848.8	732.0	628.9	551.4	511.8	488.0	468.9	475.2
15°	1019.6	999.6	920.6	787.4	638.2	533.6	476.4	444.8	425.8	413.3	415.5
17.5°	1034.1	1005.3	889.7	709.4	548.9	467.7	421.1	402.0	398.2	396.7	397.7
20°	1054.4	1010.5	849.1	622.2	483.2	415.0	390.9	389.2	388.9	388.2	390.7
22.5°	1076.2	1016.8	795.4	542.9	427.3	382.1	377.9	374.4	372.2	371.9	374.6
25°	1102.1	1018.8	728.2	478.0	379.7	366.6	361.6	356.3	354.9	354.9	356.3
27.5°	1127.2	1012.1	650.0	421.5	352.8	352.3	345.8	344.1	343.8	344.5	346.6
30°	1152.2	999.3	572.3	369.4	337.2	337.2	335.0	336.3	337.2	339.8	341.5
32.5°	1186.1	985.7	507.3	330.8	323.7	321.2	323.5	326.0	327.0	330.3	333.0
35°	1235.7	976.2	455.6	309.7	309.7	306.5	307.7	307.2	304.9	303.4	306.9
37.5°	1301.4	975.7	413.0	299.9	297.9	297.4	297.7	294.4	285.6	275.1	275.3
40°	1380.5	989.2	380.2	293.2	291.6	294.7	293.2	284.3	260.2	242.0	241.5
42.5°	1486.6	1027.9	359.1	284.8	289.4	293.2	287.1	256.8	240.5	228.2	227.7
45°	1611.4	1090.6	348.3	276.1	285.2	289.7	260.6	247.2	234.2	219.5	218.4
47.5°	1752.9	1169.5	345.8	267.8	275.6	278.4	249.3	243.2	228.5	212.4	211.2
50°	1906.8	1263.1	352.6	258.0	261.8	252.3	245.5	240.0	224.7	208.9	207.2
52.5°	2066.0	1366.1	366.1	244.8	248.0	237.5	244.0	239.2	222.4	201.1	199.6
55°	2222.5	1470.0	379.1	229.2	234.0	224.2	239.7	236.3	212.2	188.1	186.9
57.5°	2381.5	1573.3	392.0	215.4	220.4	211.4	233.0	228.2	200.6	176.0	175.6
60°	2546.7	1673.6	398.0	202.1	205.6	199.6	222.6	214.4	187.6	163.8	163.0
62.5°	2701.5	1757.1	388.2	188.8	191.1	188.6	209.1	198.1	174.6	150.0	149.8
65°	2856.7	1806.8	358.1	175.8	176.3	175.1	190.0	180.5	159.2	138.0	136.4
67.5°	2997.3	1834.5	310.2	161.7	160.5	160.0	172.3	161.5	144.4	125.9	124.3
70°	3027.1	1763.8	237.0	145.1	145.1	143.9	152.7	141.7	128.1	113.1	112.5
72.5°	2764.8	1483.8	168.3	126.4	128.4	125.9	133.1	123.9	111.6	101.6	98.5
75°	2229.5	1088.0	122.4	107.1	110.6	106.3	113.1	106.6	96.0	95.8	86.3
77.5°	1531.9	672.8	88.8	88.3	90.8	85.3	93.1	89.5	79.9	75.7	70.9
80°	653.7	268.3	64.7	68.2	68.2	63.2	72.3	73.2	65.0	62.9	62.9
82.5°	130.2	76.3	45.4	46.8	44.2	42.6	51.1	56.7	78.2	87.0	87.2
85°	39.2	28.1	27.4	25.6	22.5	22.9	30.1	56.9	70.2	40.1	34.6
87.5°	10.8	7.1	7.3	5.7	4.7	6.3	10.2	43.2	23.6	10.0	8.5
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)