

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: P961302

Luminaire Tested: **NAV-SB2A-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961302
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-SB2A-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7550.1 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

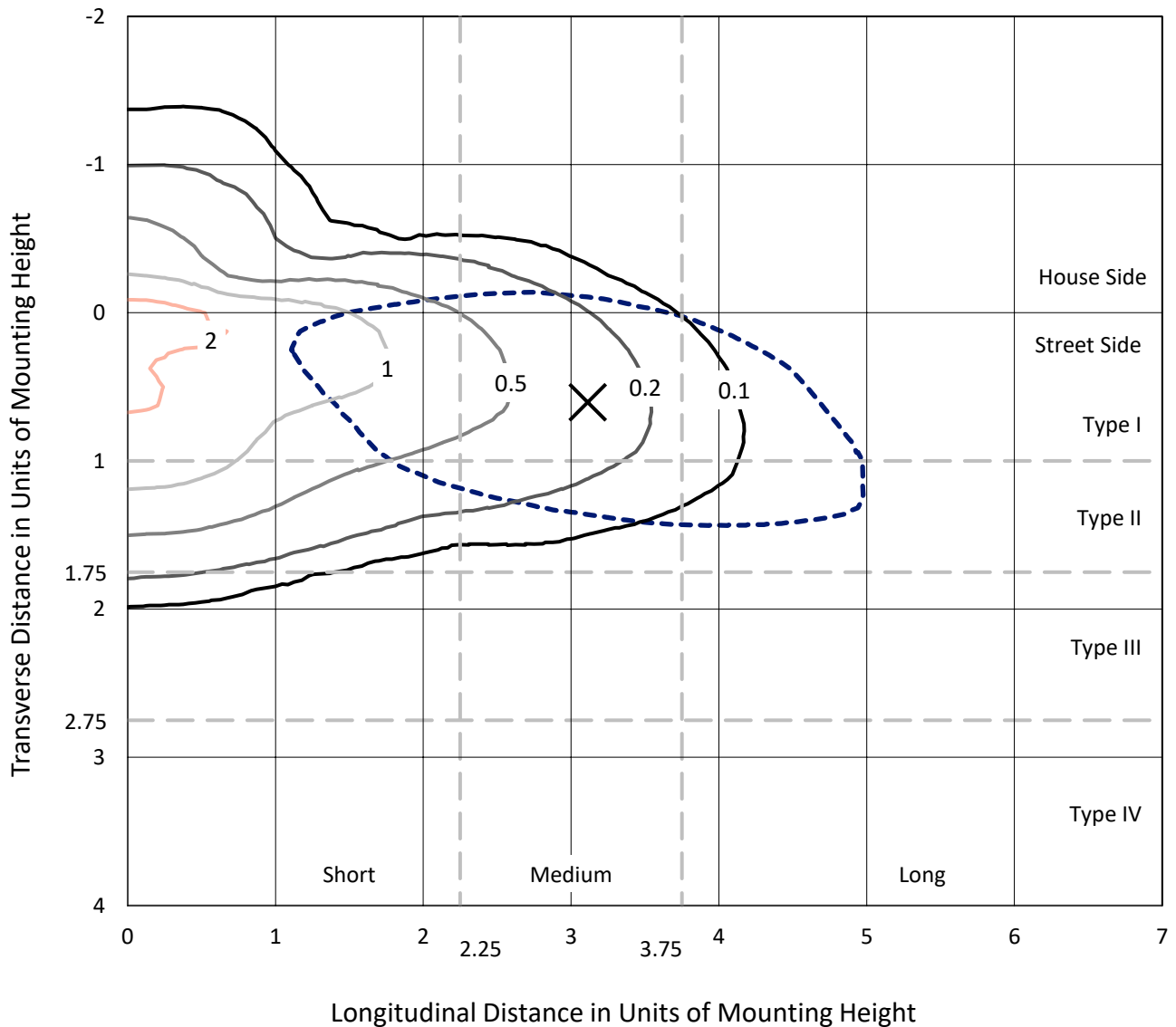
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

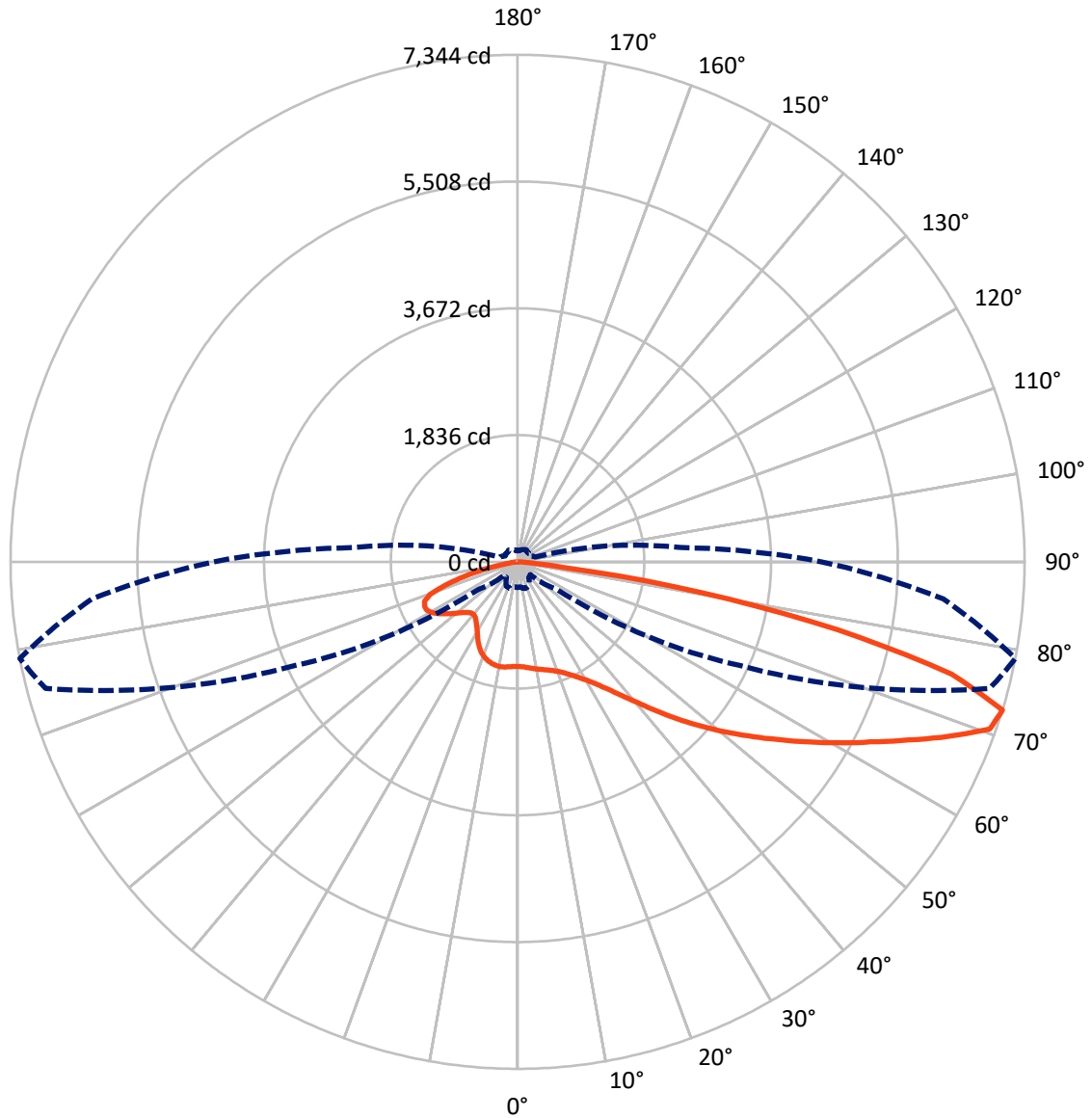
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1661.4	0.0	1661.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5888.7	0.0	5888.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	7550.1	0.0	7550.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.8
10°-20°	359.7	4.8
20°-30°	580.4	7.7
30°-40°	871.1	11.5
40°-50°	1235.7	16.4
50°-60°	1560.5	20.7
60°-70°	1584.9	21.0
70°-80°	1080.2	14.3
80°-90°	140.1	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°	7550.1	100.0
0°-180°	7550.1	100.0

Coefficient of Utilization

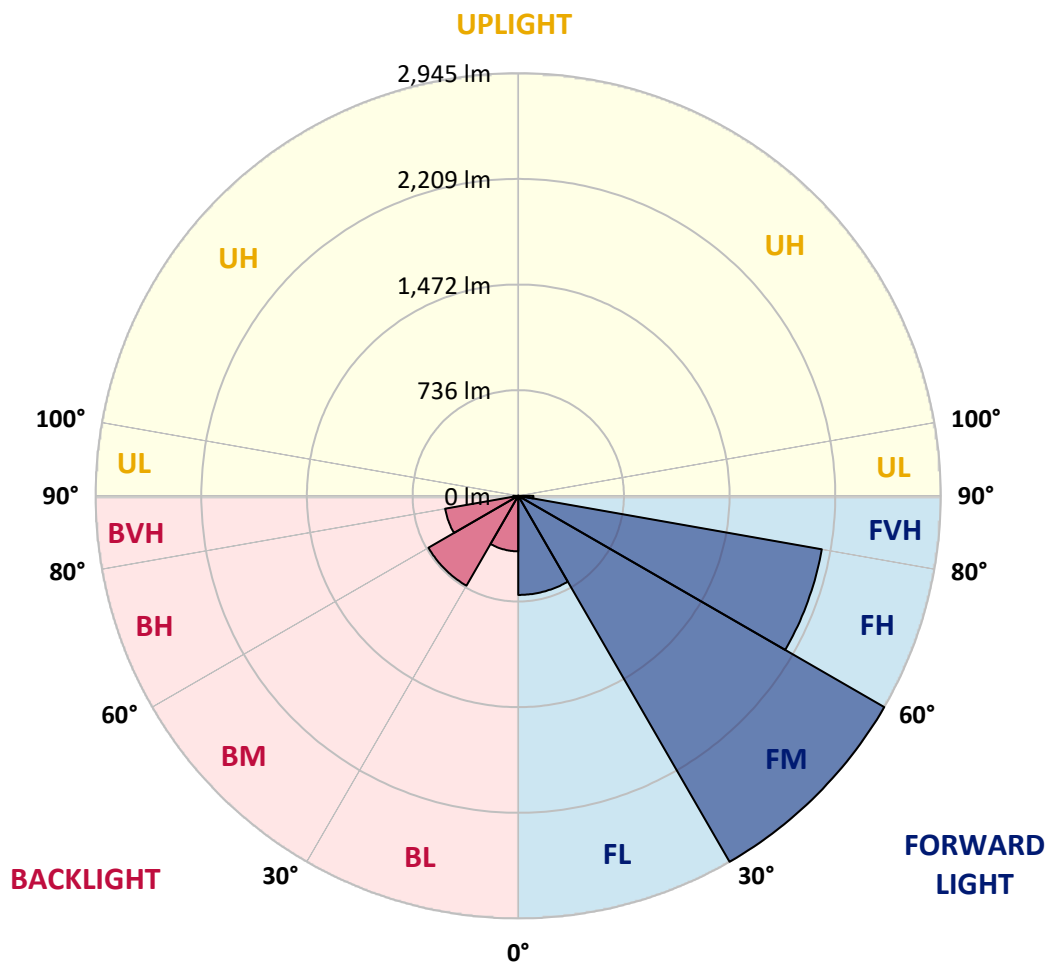


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.7	9.1			
FM (30°-60°)	2944.7	39.0			
FH (60°-80°)	2147.8	28.4			G2/5000
FVH (80°-90°)	105.6	1.4			G2/225
BL (0°-30°)	387.0	5.1	B1/500		
BM (30°-60°)	722.5	9.6	B1/1000		
BH (60°-80°)	517.3	6.9	B2/1000		G2/1000
BVH (80°-90°)	34.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1516.4	1509.2	1513.6	1512.0	1514.0	1516.4	1517.2	1518.4	1522.4	1522.0	1521.6
5°	1513.2	1506.0	1512.0	1510.0	1515.3	1520.8	1525.6	1530.0	1536.4	1539.1	1535.1
7.5°	1506.4	1501.6	1507.7	1513.6	1523.3	1531.6	1538.4	1548.4	1557.6	1559.1	1562.0
10°	1466.9	1463.3	1477.2	1492.8	1519.3	1542.0	1556.8	1568.4	1578.3	1579.9	1583.9
12.5°	1425.8	1421.4	1436.9	1458.1	1500.8	1542.0	1573.2	1588.3	1597.1	1602.3	1608.2
15°	1419.0	1415.4	1424.1	1442.6	1478.0	1531.2	1584.3	1612.2	1619.8	1625.9	1628.2
17.5°	1451.7	1444.9	1448.5	1454.9	1475.7	1521.2	1593.1	1639.4	1651.0	1657.4	1657.4
20°	1527.6	1518.0	1512.4	1499.7	1496.1	1522.8	1592.3	1672.2	1687.4	1695.4	1697.3
22.5°	1628.6	1622.3	1610.3	1577.9	1542.7	1542.4	1607.5	1714.1	1742.5	1750.1	1745.3
25°	1750.8	1741.3	1726.1	1682.1	1614.7	1581.2	1633.0	1767.6	1815.2	1817.1	1803.2
27.5°	1891.4	1877.1	1856.3	1798.4	1707.3	1641.8	1672.2	1829.1	1898.6	1897.8	1869.1
30°	2039.6	2025.2	2003.3	1932.9	1818.4	1723.7	1726.5	1895.4	1997.6	1993.3	1944.1
32.5°	2147.8	2137.0	2132.6	2078.3	1946.2	1820.3	1788.8	1968.9	2119.9	2115.9	2047.2
35°	2230.9	2216.9	2222.1	2194.5	2085.6	1928.5	1865.1	2056.4	2268.4	2268.0	2182.5
37.5°	2313.2	2300.8	2305.2	2286.8	2214.5	2066.0	1958.2	2163.4	2452.5	2461.3	2346.3
40°	2388.2	2375.0	2392.7	2375.4	2314.8	2212.2	2063.9	2284.4	2665.8	2682.6	2544.4
42.5°	2433.4	2423.0	2452.1	2452.5	2401.8	2335.6	2180.2	2417.8	2912.6	2950.2	2788.0
45°	2448.9	2445.3	2489.3	2498.4	2478.9	2407.0	2284.8	2563.2	3178.6	3245.7	3065.6
47.5°	2432.2	2425.4	2486.1	2520.1	2535.6	2440.5	2371.4	2720.6	3450.2	3548.4	3368.4
50°	2347.6	2334.3	2424.6	2496.1	2551.6	2462.6	2459.0	2902.3	3758.9	3866.3	3672.7
52.5°	2195.3	2185.4	2288.0	2412.2	2516.5	2473.3	2557.2	3100.7	4052.0	4191.0	3984.6
55°	2000.9	1987.7	2100.7	2262.9	2428.9	2469.7	2655.5	3322.7	4397.9	4538.9	4306.8
57.5°	1692.6	1666.1	1809.1	2000.9	2286.4	2465.3	2757.7	3543.6	4749.3	4918.3	4650.7
60°	1242.8	1203.8	1379.0	1606.3	2007.7	2422.6	2884.2	3791.3	5171.1	5323.2	5026.1
62.5°	723.6	700.9	815.5	1027.6	1513.2	2171.0	2955.4	4079.2	5585.6	5745.3	5395.1
65°	561.9	555.6	565.5	581.9	842.2	1625.4	2736.1	4359.9	6112.8	6224.6	5779.8
67.5°	514.0	509.2	513.6	482.9	427.3	905.4	2164.6	4431.1	6677.6	6745.4	6116.4
70°	456.8	451.3	465.7	439.3	336.3	411.7	1398.6	4173.1	7126.8	7254.2	6372.4
72.5°	372.2	365.8	399.3	387.3	283.1	264.3	702.5	3560.0	7079.7	7344.0	6189.1
75°	286.0	282.4	322.3	332.3	230.8	208.1	337.0	2646.2	6230.3	6496.6	5334.0
77.5°	222.0	219.2	239.6	275.9	186.1	161.3	207.3	1678.5	4695.0	4741.8	3675.9
80°	166.6	158.6	177.3	213.7	144.9	117.8	140.6	978.9	2967.8	2690.2	1599.9
82.5°	104.2	100.2	115.8	142.6	102.2	81.1	91.4	540.8	1189.3	700.5	308.7
85°	59.6	57.9	63.1	81.5	55.6	46.7	52.3	238.8	217.3	149.3	93.1
87.5°	24.0	23.2	28.8	36.4	20.4	17.2	18.3	57.5	48.0	44.3	30.7
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°	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7	1515.7
2.5°	1520.0	1520.0	1514.4	1505.6	1495.7	1489.2	1478.9	1476.1	1465.3	1462.1	1467.3
5°	1538.4	1535.1	1518.0	1493.2	1459.3	1428.1	1393.8	1372.3	1341.9	1331.1	1339.1
7.5°	1561.6	1552.8	1523.3	1468.9	1397.8	1327.9	1255.2	1200.1	1147.4	1128.6	1131.0
10°	1582.7	1570.3	1520.0	1425.0	1302.0	1180.9	1065.1	984.1	922.6	897.4	903.0
12.5°	1603.9	1581.2	1498.9	1351.9	1165.7	1001.6	878.2	815.1	777.2	746.8	756.9
15°	1623.8	1591.9	1466.1	1254.0	1016.4	849.8	758.8	708.5	678.1	658.2	661.7
17.5°	1647.0	1601.0	1417.0	1129.9	874.2	744.9	670.6	640.2	634.2	631.8	633.4
20°	1679.4	1609.5	1352.3	990.9	769.6	660.9	622.6	619.8	619.4	618.3	622.2
22.5°	1714.1	1619.5	1266.8	864.7	680.5	608.6	601.9	596.2	592.7	592.2	596.7
25°	1755.2	1622.7	1159.8	761.2	604.6	583.8	575.8	567.5	565.1	565.1	567.5
27.5°	1795.2	1611.9	1035.1	671.4	561.9	561.1	550.7	548.0	547.6	548.8	552.0
30°	1835.2	1591.5	911.3	588.2	537.2	537.2	533.5	535.6	537.2	541.2	544.0
32.5°	1889.1	1569.9	807.9	526.7	515.6	511.6	515.2	519.2	520.8	525.9	530.3
35°	1968.1	1554.7	725.7	493.2	493.2	488.0	490.1	489.2	485.6	483.3	488.8
37.5°	2072.8	1554.0	657.7	477.6	474.5	473.7	474.1	468.8	454.9	438.1	438.5
40°	2198.5	1575.5	605.5	466.9	464.4	469.2	466.9	452.8	414.5	385.4	384.6
42.5°	2367.4	1637.0	571.9	453.7	460.8	466.9	457.3	409.0	383.0	363.5	362.6
45°	2566.4	1736.9	554.7	439.7	454.1	461.2	414.9	393.8	373.0	349.4	347.9
47.5°	2791.6	1862.6	550.7	426.5	438.9	443.3	397.0	387.3	363.9	338.2	336.3
50°	3036.9	2011.7	561.5	410.9	417.0	401.8	390.9	382.2	357.8	332.7	329.8
52.5°	3290.5	2175.8	583.1	389.8	394.9	378.2	388.6	381.0	354.2	320.3	317.9
55°	3539.6	2341.1	603.8	365.0	372.6	357.0	381.8	376.2	337.8	299.5	297.6
57.5°	3792.8	2505.7	624.2	343.1	351.1	336.7	371.0	363.5	319.5	280.3	279.5
60°	4056.0	2665.4	633.8	321.8	327.5	317.9	354.6	341.4	298.7	260.8	259.6
62.5°	4302.4	2798.5	618.3	300.7	304.3	300.3	333.1	315.5	278.0	238.8	238.4
65°	4549.7	2877.5	570.3	279.9	280.7	278.8	302.7	287.5	253.6	219.7	217.3
67.5°	4773.7	2921.8	494.0	257.6	255.6	254.8	274.4	257.2	230.0	200.5	198.1
70°	4821.2	2809.2	377.4	231.2	231.2	229.2	243.2	225.6	204.1	180.1	179.3
72.5°	4403.5	2363.1	267.9	201.3	204.5	200.5	212.1	197.3	177.7	161.7	156.9
75°	3550.8	1732.9	194.9	170.6	176.1	169.3	180.1	169.7	152.9	152.5	137.4
77.5°	2439.8	1071.5	141.3	140.6	144.5	135.8	148.2	142.6	127.4	120.6	113.1
80°	1041.2	427.3	103.0	108.6	108.6	100.7	115.0	116.6	103.4	100.2	100.2
82.5°	207.3	121.4	72.3	74.7	70.3	67.9	81.5	90.3	124.6	138.6	139.0
85°	62.3	44.7	43.6	40.7	36.0	36.4	48.0	90.6	111.8	63.9	55.1
87.5°	17.2	11.2	11.6	9.2	7.6	9.9	16.4	68.7	37.5	16.0	13.5
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)