

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: P882397

Luminaire Tested: **NAV-SB2B-730-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-730-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

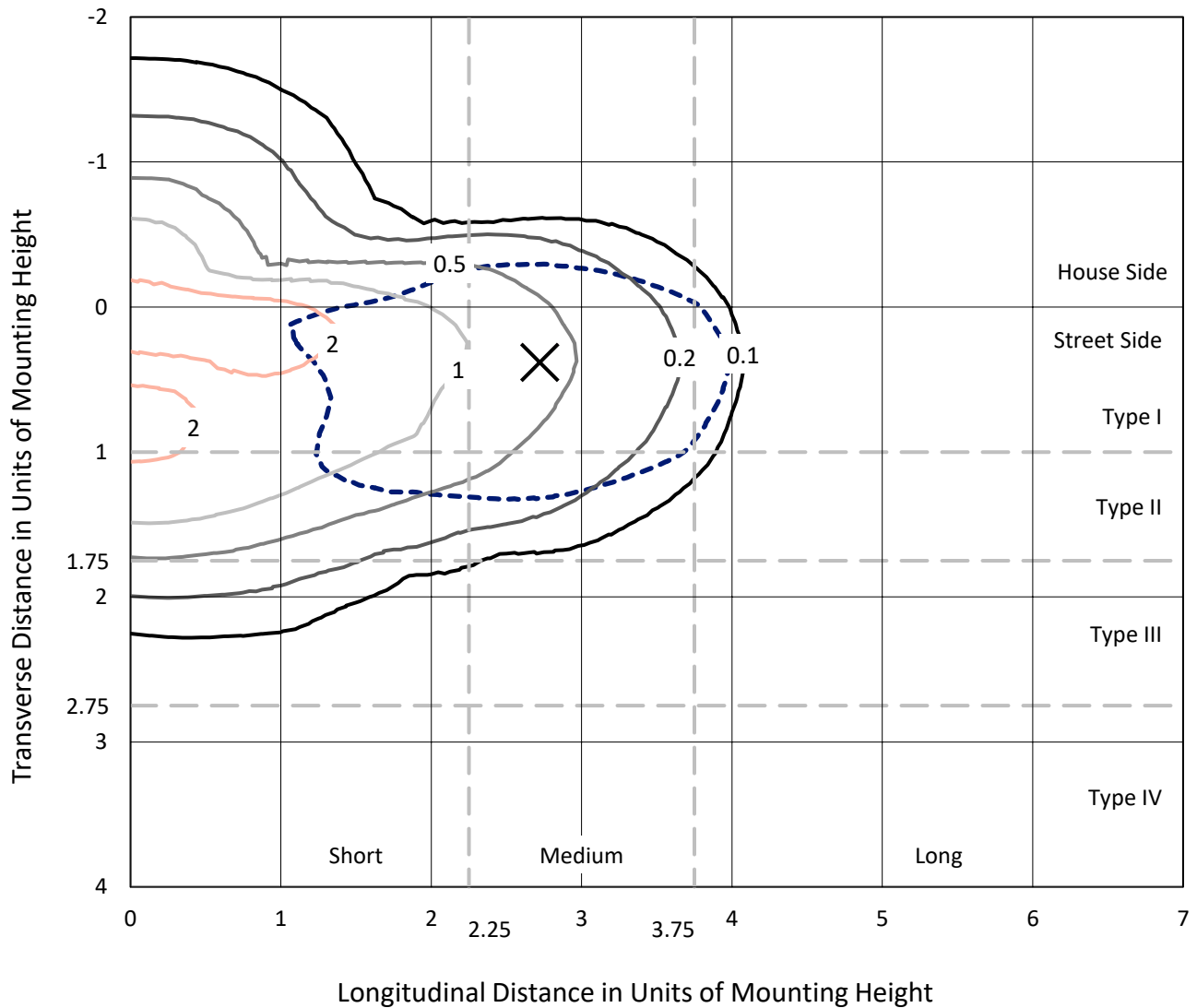
Lumens per Lamp: N/A  
Luminaire Lumens: 11194 lumens  
Efficiency: N/A  
Efficacy: 151.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

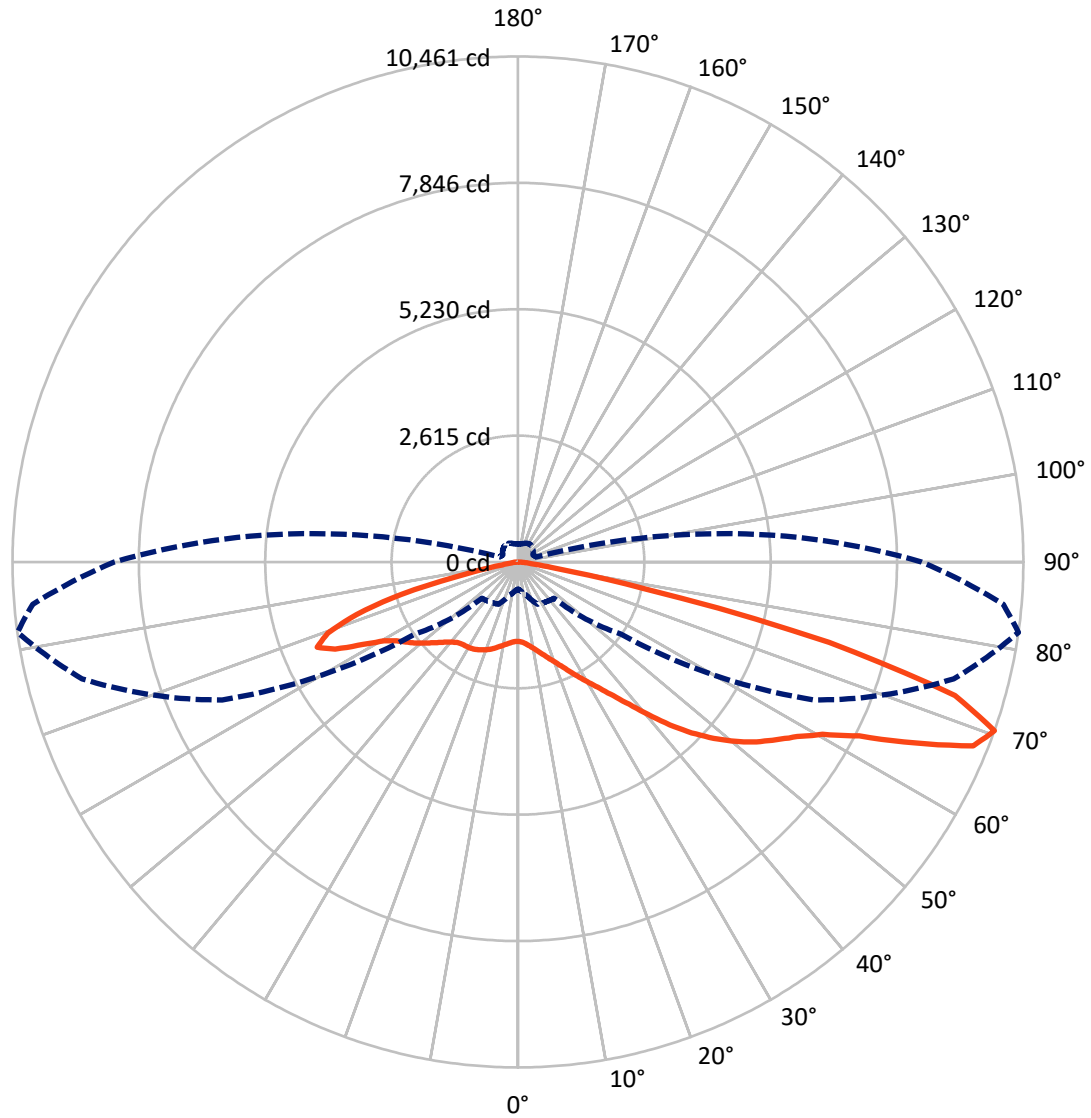
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2759.6	0.0	2759.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	8434.4	0.0	8434.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	11194.0	0.0	11194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	1.4
10°-20°	445.2	4.0
20°-30°	744.8	6.7
30°-40°	1163.5	10.4
40°-50°	1853.1	16.6
50°-60°	2578.8	23.0
60°-70°	2697.5	24.1
70°-80°	1409.9	12.6
80°-90°	146.4	1.3
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°	11194.0	100.0
0°-180°	11194.0	100.0

**Coefficient of Utilization**



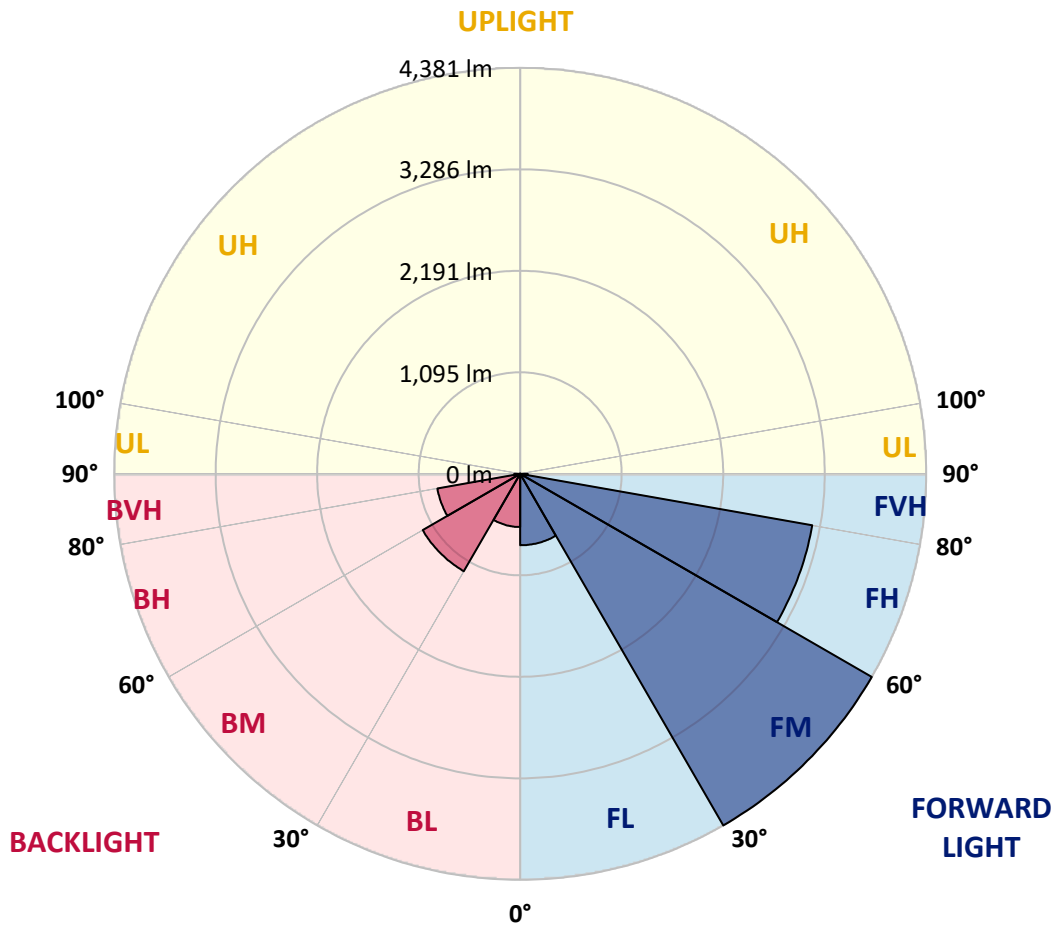
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.8	6.9			
FM (30°-60°)	4381.2	39.1			
FH (60°-80°)	3200.4	28.6			G2/5000
FVH (80°-90°)	82.0	0.7			G1/100
BL (0°-30°)	574.1	5.1	B2/1000		
BM (30°-60°)	1214.1	10.8	B2/2500		
BH (60°-80°)	906.9	8.1	B2/1000		G2/1000
BVH (80°-90°)	64.4	0.6			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°	82°	85°
0°	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2
2.5°	1680.4	1689.9	1686.9	1683.9	1683.9	1679.8	1679.2	1673.3	1668.5	1660.8	1659.0
5°	1701.8	1711.9	1710.7	1713.1	1720.8	1722.6	1724.3	1720.8	1711.3	1701.8	1697.6
7.5°	1682.8	1694.0	1697.6	1711.9	1735.6	1757.0	1773.0	1779.6	1770.7	1757.0	1750.5
10°	1618.6	1631.1	1643.6	1677.4	1719.6	1770.1	1812.8	1838.4	1836.6	1823.5	1812.2
12.5°	1488.5	1501.6	1528.3	1594.3	1671.5	1760.6	1840.2	1893.6	1912.0	1902.5	1882.9
15°	1384.6	1395.9	1416.1	1483.8	1584.2	1719.6	1850.3	1954.2	2001.1	1995.8	1972.0
17.5°	1381.6	1386.4	1398.8	1430.9	1508.1	1655.4	1839.6	2013.6	2103.3	2102.7	2073.0
20°	1433.9	1435.7	1442.8	1449.3	1493.3	1606.7	1812.2	2062.9	2217.9	2217.9	2185.9
22.5°	1506.3	1505.2	1512.3	1506.3	1527.7	1602.6	1795.0	2106.3	2345.6	2355.2	2314.8
25°	1615.0	1609.1	1607.3	1593.7	1597.8	1641.2	1814.0	2155.6	2497.1	2516.7	2466.2
27.5°	1760.0	1750.5	1743.9	1712.5	1701.8	1720.8	1872.2	2215.0	2665.8	2699.7	2635.5
30°	1948.9	1931.6	1922.1	1867.5	1828.9	1831.8	1960.2	2294.0	2842.2	2896.9	2815.5
32.5°	2206.7	2179.9	2154.4	2064.7	1994.0	1970.8	2073.6	2403.3	3033.5	3120.8	3016.3
35°	2495.3	2473.9	2446.6	2308.2	2199.5	2146.1	2226.8	2555.9	3257.4	3395.8	3259.8
37.5°	2773.3	2754.9	2768.0	2581.5	2441.3	2363.5	2427.6	2760.8	3533.6	3737.9	3565.1
40°	3060.8	3046.5	3048.3	2870.1	2706.8	2619.5	2671.2	3018.0	3850.2	4144.8	3932.2
42.5°	3373.2	3362.5	3326.9	3168.9	2985.4	2904.0	2951.5	3315.0	4190.0	4608.1	4334.9
45°	3723.1	3716.6	3683.3	3502.1	3291.9	3200.4	3264.5	3642.9	4531.5	5044.1	4739.4
47.5°	4025.4	4030.8	4026.6	3874.0	3656.0	3521.7	3598.4	3985.0	4849.3	5454.0	5127.3
50°	4171.0	4198.9	4239.9	4192.3	4056.9	3920.3	3935.2	4315.3	5152.2	5838.3	5499.1
52.5°	4094.9	4147.8	4259.5	4335.5	4387.8	4359.3	4319.5	4643.2	5437.3	6185.2	5850.8
55°	3811.6	3885.8	4071.2	4254.7	4521.4	4728.7	4781.0	5006.7	5715.3	6490.5	6183.4
57.5°	3295.4	3416.0	3582.3	3953.6	4402.6	4907.5	5319.1	5511.0	6009.9	6816.6	6531.5
60°	2410.4	2572.0	2778.7	3331.1	3986.8	4811.9	5777.1	6285.5	6428.7	7238.9	6984.7
62.5°	1542.6	1642.4	1832.4	2352.8	3106.5	4321.8	5917.3	7253.7	7138.5	7931.5	7664.2
65°	1056.1	1120.3	1294.3	1586.5	2008.3	3217.0	5541.9	7979.6	8265.9	9029.2	8826.0
67.5°	767.4	816.1	964.6	1220.6	1308.5	1903.7	4300.5	7946.3	9361.8	10160.1	9844.1
70°	559.5	594.0	718.7	964.6	1006.8	1059.1	2605.2	6754.8	9338.0	10460.7	10082.3
72.5°	414.6	438.4	522.1	748.4	814.9	715.2	1289.5	4909.3	8024.1	9461.6	9158.1
75°	300.0	317.8	379.6	572.6	652.2	544.7	643.3	2868.9	5597.1	6655.6	6709.1
77.5°	229.3	242.9	283.3	419.4	522.1	408.7	399.2	1319.8	2653.9	2667.0	2816.7
80°	184.1	193.0	215.0	295.2	400.3	305.9	260.2	532.8	838.7	709.8	744.9
82.5°	135.4	150.3	181.8	207.3	286.3	210.9	158.6	269.1	319.0	274.4	276.8
85°	77.2	87.3	109.9	148.5	182.9	128.9	90.9	119.4	148.5	121.8	108.7
87.5°	27.3	35.6	38.6	58.2	79.6	53.5	35.0	34.5	48.7	36.2	30.3
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°	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2	1641.2
2.5°	1653.1	1650.1	1638.2	1622.2	1605.5	1589.5	1584.2	1572.9	1565.2	1561.0	1565.7
5°	1686.3	1676.8	1648.9	1613.3	1575.8	1535.5	1506.9	1480.8	1461.8	1444.0	1451.1
7.5°	1733.8	1717.2	1669.1	1606.7	1540.2	1473.1	1423.2	1385.2	1359.6	1343.0	1346.6
10°	1789.1	1763.5	1689.9	1596.6	1493.9	1397.6	1338.8	1306.2	1290.1	1281.2	1283.6
12.5°	1852.6	1816.4	1711.3	1573.5	1423.2	1313.3	1272.9	1263.4	1264.0	1264.6	1265.8
15°	1931.0	1880.6	1728.5	1523.0	1331.1	1248.6	1241.4	1256.9	1272.9	1280.6	1280.0
17.5°	2019.5	1948.3	1731.5	1439.8	1240.8	1207.0	1229.5	1262.8	1287.2	1297.9	1300.2
20°	2114.6	2017.2	1710.1	1322.2	1166.6	1173.1	1213.5	1256.3	1283.0	1296.7	1300.2
22.5°	2223.3	2090.8	1659.0	1198.7	1106.0	1136.3	1183.8	1225.4	1253.3	1267.0	1270.5
25°	2347.4	2173.4	1578.8	1094.7	1053.7	1094.7	1142.2	1176.7	1199.3	1211.7	1215.3
27.5°	2485.2	2259.5	1471.9	1012.2	1008.0	1051.9	1091.2	1117.9	1129.8	1139.3	1142.8
30°	2623.6	2337.9	1342.4	949.8	968.2	1009.8	1037.7	1049.6	1053.1	1054.9	1059.1
32.5°	2773.3	2405.6	1206.4	898.1	930.2	968.8	985.4	990.8	974.1	962.8	966.4
35°	2954.5	2478.1	1073.3	857.1	892.8	926.0	931.4	926.6	907.0	883.8	885.0
37.5°	3178.4	2568.4	967.0	828.0	857.7	879.7	873.2	872.0	873.8	846.4	848.2
40°	3452.8	2686.0	889.2	805.4	829.2	834.0	815.5	825.6	834.5	793.0	794.2
42.5°	3757.5	2828.0	839.9	790.0	805.4	794.2	765.6	776.9	775.7	721.1	720.5
45°	4068.2	2982.4	822.7	778.7	783.5	760.9	729.4	732.4	707.4	658.1	659.9
47.5°	4377.1	3148.1	833.4	769.2	756.1	730.6	706.2	693.2	656.4	619.5	619.5
50°	4680.0	3322.2	872.6	750.2	718.7	703.9	686.1	662.9	623.7	592.2	589.8
52.5°	4961.0	3497.4	916.5	718.7	671.8	680.7	669.4	642.7	604.1	572.0	572.6
55°	5227.1	3672.6	933.7	675.4	627.8	660.5	654.0	604.7	558.3	532.2	529.8
57.5°	5516.9	3883.5	914.7	620.1	592.2	637.3	612.4	557.8	531.0	511.4	509.6
60°	5918.5	4214.3	873.8	551.8	558.3	602.9	560.1	537.6	508.5	486.5	485.3
62.5°	6585.5	4831.5	807.8	484.1	518.5	551.8	535.2	512.6	482.9	461.5	461.5
65°	7571.5	5689.2	683.7	431.2	474.0	501.9	508.5	485.9	455.0	432.4	433.6
67.5°	8403.1	6227.3	517.4	387.3	428.3	461.5	479.9	458.0	425.3	403.3	403.9
70°	8357.4	5836.5	395.0	343.9	387.9	421.7	445.5	428.3	393.2	372.4	374.2
72.5°	7423.0	4882.6	319.6	300.0	346.9	380.2	408.7	395.6	360.0	339.8	339.8
75°	5453.4	3465.9	255.4	255.4	295.8	336.8	368.3	360.0	327.3	313.0	308.9
77.5°	2298.7	1454.1	200.2	212.1	245.9	289.3	328.5	331.4	302.9	320.8	291.1
80°	611.2	400.9	152.7	166.9	193.0	238.8	285.7	284.5	253.6	237.0	220.4
82.5°	232.8	158.0	108.7	117.6	139.6	182.9	226.3	233.4	202.5	175.2	175.2
85°	89.7	67.7	67.1	70.7	81.4	121.2	171.1	177.0	152.7	129.5	133.6
87.5°	23.2	20.2	24.9	23.8	37.4	64.7	98.0	101.6	93.3	54.1	77.2
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)