

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: P883059

Luminaire Tested: **NAV-SB3B-722-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3B-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

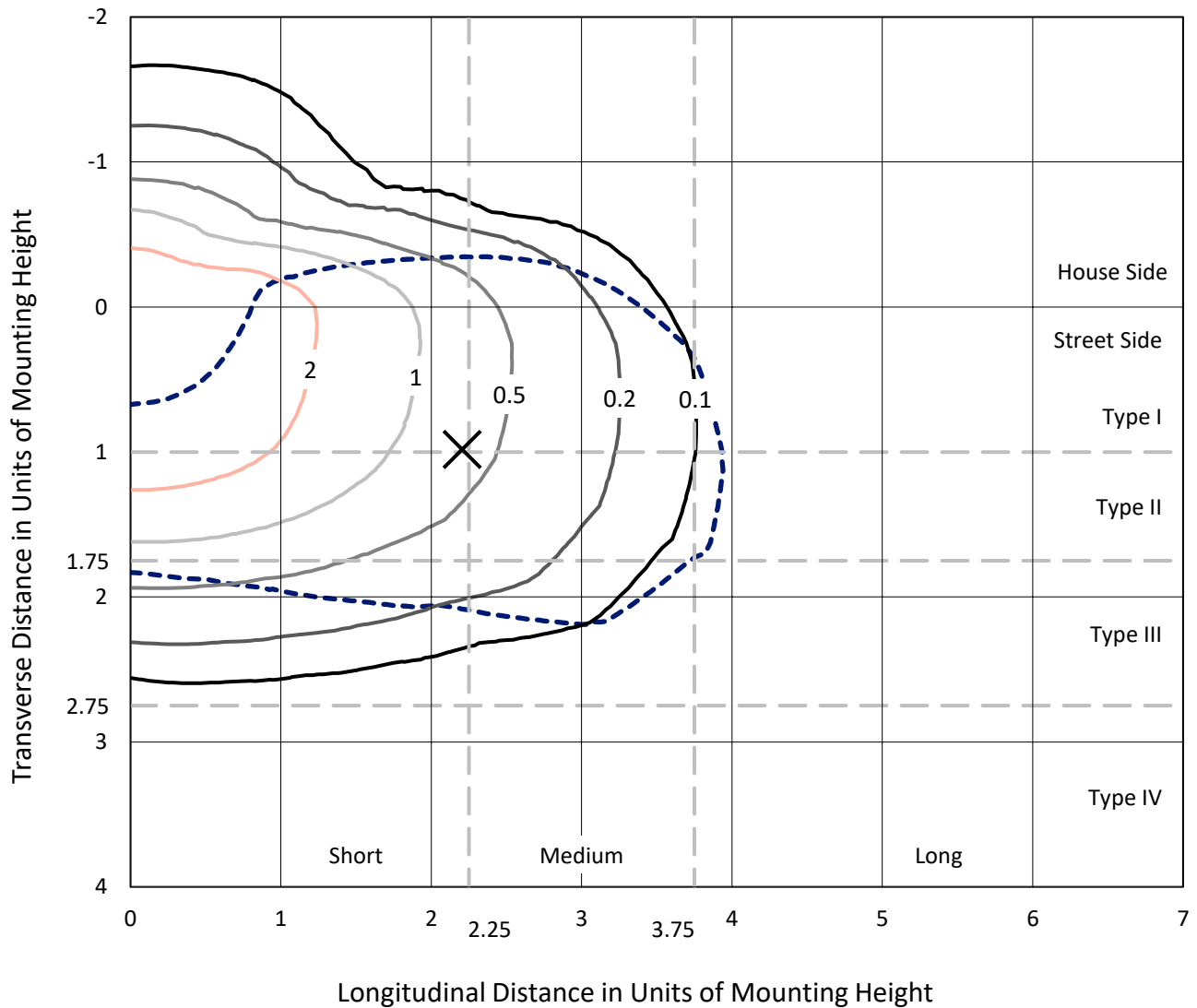
Lumens per Lamp: N/A  
Luminaire Lumens: 13468 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.919  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
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

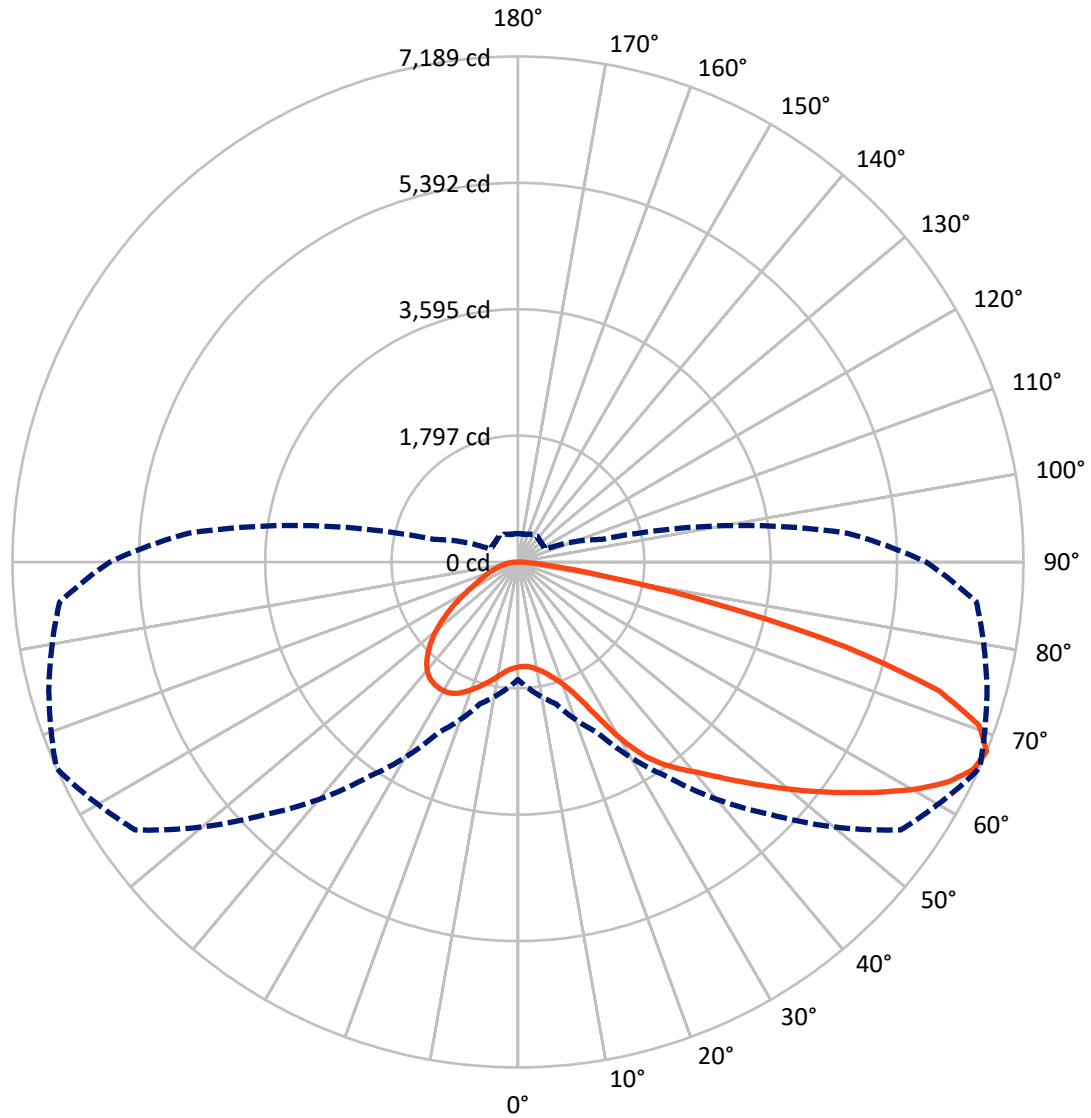
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3348.8	0.0	3348.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	10119.2	0.0	10119.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	13468.0	0.0	13468.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	1.1
10°-20°	489.3	3.6
20°-30°	943.1	7.0
30°-40°	1653.6	12.3
40°-50°	2458.4	18.3
50°-60°	3116.3	23.1
60°-70°	3049.2	22.6
70°-80°	1454.5	10.8
80°-90°	155.4	1.2
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°	13468.0	100.0
0°-180°	13468.0	100.0

**Coefficient of Utilization**



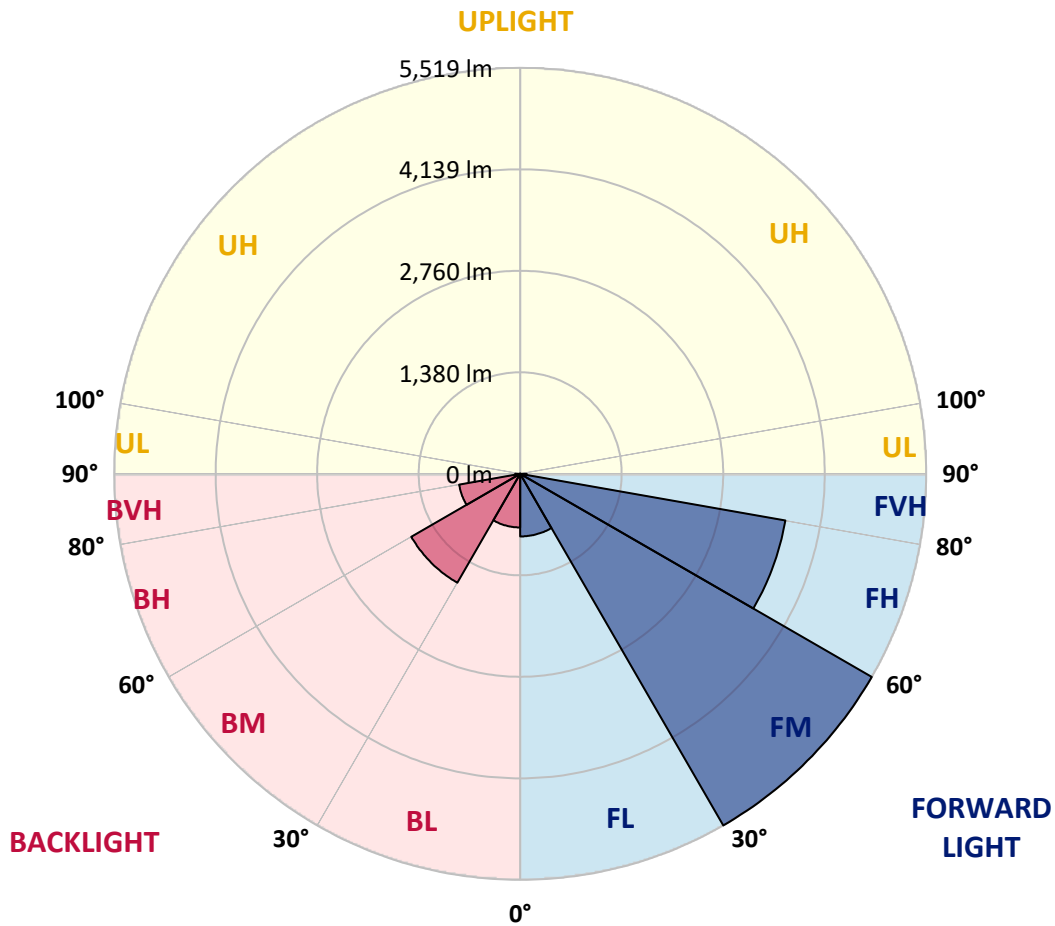
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.0	6.3			
FM (30°-60°)	5519.1	41.0			
FH (60°-80°)	3661.0	27.2			G2/5000
FVH (80°-90°)	88.1	0.7			G1/100
BL (0°-30°)	729.5	5.4	B2/1000		
BM (30°-60°)	1709.2	12.7	B2/2500		
BH (60°-80°)	842.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	67.3	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8
2.5°	1478.2	1486.7	1484.6	1481.0	1480.3	1481.7	1483.9	1486.0	1485.3	1488.8	1494.5
5°	1474.0	1482.5	1481.7	1481.7	1484.6	1490.2	1493.8	1497.3	1493.8	1498.0	1505.8
7.5°	1476.8	1483.2	1486.0	1488.8	1495.9	1506.5	1515.0	1522.8	1518.5	1523.5	1533.4
10°	1512.9	1517.8	1520.7	1520.7	1525.6	1537.7	1546.1	1560.3	1556.8	1564.5	1577.3
12.5°	1578.7	1583.6	1583.6	1580.8	1584.4	1592.1	1595.0	1610.5	1604.2	1616.9	1629.6
15°	1659.4	1669.3	1661.5	1656.5	1657.9	1665.7	1665.0	1677.1	1670.7	1681.3	1692.6
17.5°	1748.5	1761.3	1748.5	1747.8	1745.0	1753.5	1754.2	1764.8	1753.5	1761.3	1769.0
20°	1854.0	1871.6	1861.0	1864.6	1858.2	1861.7	1865.3	1880.8	1863.2	1868.8	1866.7
22.5°	2002.6	2023.8	2012.5	2025.9	2021.7	2018.8	2018.1	2045.7	2018.1	2020.2	1999.7
25°	2219.1	2244.6	2224.7	2243.1	2243.1	2252.3	2263.0	2298.3	2252.3	2238.9	2185.8
27.5°	2538.9	2564.4	2525.5	2536.8	2533.3	2555.9	2544.6	2632.3	2582.8	2560.9	2454.0
30°	2923.9	2969.2	2895.6	2892.7	2889.2	2925.3	2941.6	2999.6	2949.3	2927.4	2798.6
32.5°	3340.0	3387.4	3299.6	3274.1	3260.7	3282.6	3269.2	3315.9	3281.2	3247.3	3088.0
35°	3780.1	3826.8	3743.3	3693.8	3640.0	3594.0	3545.9	3557.9	3525.3	3473.7	3308.8
37.5°	4196.2	4281.8	4193.3	4140.3	4041.2	3951.3	3816.9	3761.0	3730.6	3683.1	3516.9
40°	4620.0	4668.9	4601.6	4556.3	4448.8	4308.0	4092.9	3974.7	3933.6	3887.6	3746.8
42.5°	4932.1	4978.8	4942.7	4911.6	4827.4	4663.9	4385.8	4237.9	4178.5	4126.8	4007.2
45°	5179.8	5214.4	5191.8	5203.1	5167.0	5008.5	4689.4	4520.3	4458.7	4395.7	4301.6
47.5°	5279.5	5316.3	5352.4	5419.6	5481.2	5364.4	5015.6	4825.9	4760.8	4696.5	4603.8
50°	5268.2	5305.7	5410.4	5553.4	5744.4	5705.5	5359.5	5151.5	5091.3	5017.7	4932.1
52.5°	5177.6	5220.1	5354.5	5592.3	5896.6	5961.0	5709.8	5487.6	5431.0	5343.2	5257.6
55°	4939.9	4965.3	5167.0	5503.8	5932.7	6139.3	6053.0	5845.6	5789.0	5666.6	5573.2
57.5°	4499.0	4535.8	4829.5	5265.4	5842.1	6260.3	6354.4	6222.1	6167.6	5991.4	5893.7
60°	3923.7	3982.5	4318.6	4864.9	5611.4	6259.6	6628.2	6592.2	6546.9	6311.2	6209.3
62.5°	3272.7	3340.7	3664.0	4298.8	5208.1	6082.0	6799.5	6902.1	6878.7	6606.3	6476.1
65°	2513.5	2560.2	2882.1	3566.4	4580.4	5700.6	6819.3	7113.7	7117.9	6830.6	6615.5
67.5°	1673.5	1808.0	2087.5	2676.2	3739.8	5077.2	6645.2	7148.3	7189.4	6907.8	6545.5
70°	816.6	993.5	1267.3	1739.3	2676.2	4121.2	6190.2	6863.9	6955.2	6682.7	6128.0
72.5°	338.9	396.3	545.6	858.3	1536.2	2780.9	5276.0	6092.6	6261.7	5921.3	5152.2
75°	228.6	247.7	312.1	440.1	699.8	1371.4	3804.9	4542.9	4815.3	4472.1	3655.5
77.5°	176.2	188.2	227.1	307.8	416.1	518.7	2036.5	2737.8	2878.6	2664.9	1902.1
80°	138.7	147.9	169.8	224.3	295.1	277.4	694.2	1240.5	1321.8	1108.8	611.4
82.5°	120.3	123.8	121.7	152.1	196.0	162.0	227.9	457.8	505.2	366.5	199.5
85°	87.0	96.9	101.2	94.1	104.0	82.1	93.4	162.0	178.3	159.2	112.5
87.5°	35.4	52.4	64.4	60.9	38.2	23.4	29.0	47.4	54.5	59.4	36.8
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°	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8	1493.8
2.5°	1495.2	1500.1	1503.7	1507.9	1510.8	1515.0	1523.5	1528.5	1529.2	1532.7	1532.0
5°	1508.6	1515.7	1523.5	1534.8	1547.6	1558.2	1574.4	1585.8	1590.0	1593.6	1592.8
7.5°	1537.7	1547.6	1561.7	1581.5	1599.9	1614.1	1633.9	1647.3	1660.8	1665.7	1666.4
10°	1580.8	1595.0	1615.5	1642.4	1662.2	1680.6	1701.1	1712.4	1725.9	1731.5	1734.4
12.5°	1634.6	1649.5	1676.3	1713.8	1732.2	1745.0	1752.1	1749.2	1752.1	1757.0	1758.4
15°	1696.2	1712.4	1742.9	1783.2	1795.9	1784.6	1769.0	1754.9	1752.8	1754.2	1759.1
17.5°	1769.0	1781.1	1816.5	1850.4	1841.2	1794.5	1760.6	1737.9	1726.6	1723.0	1728.0
20°	1870.9	1870.9	1900.0	1921.2	1859.6	1780.4	1727.3	1690.5	1667.1	1657.2	1655.1
22.5°	1994.8	1983.5	2001.8	1987.0	1856.1	1740.7	1667.1	1603.5	1568.1	1553.9	1551.8
25°	2151.9	2138.4	2133.5	2041.5	1830.6	1677.8	1558.2	1481.0	1449.9	1442.1	1443.5
27.5°	2388.9	2354.9	2290.6	2071.2	1783.9	1578.7	1430.8	1359.3	1341.6	1342.3	1344.5
30°	2704.5	2636.6	2478.8	2076.1	1707.5	1438.6	1300.6	1249.7	1241.2	1244.7	1256.7
32.5°	2996.8	2932.4	2671.3	2053.5	1590.0	1301.3	1183.8	1149.9	1137.1	1141.4	1147.0
35°	3226.0	3208.3	2849.6	2021.7	1445.7	1172.5	1079.1	1050.1	1025.3	1019.7	1023.9
37.5°	3442.6	3435.5	2983.3	1977.1	1302.7	1081.2	994.9	956.7	920.6	900.8	901.5
40°	3680.3	3673.2	3071.1	1908.4	1176.1	1002.0	919.2	869.0	824.4	788.3	791.8
42.5°	3947.8	3906.0	3112.8	1810.1	1068.5	934.8	857.6	789.7	731.0	697.7	699.8
45°	4240.0	4145.9	3112.1	1684.8	977.9	873.2	791.8	695.6	641.1	610.0	608.6
47.5°	4550.0	4375.2	3073.9	1546.1	890.2	805.3	689.9	616.3	580.2	561.1	556.9
50°	4869.8	4589.6	3008.8	1386.9	800.3	728.1	626.2	576.0	548.4	530.7	524.3
52.5°	5170.6	4784.2	2930.2	1206.5	709.0	653.1	597.9	559.0	530.0	510.2	501.7
55°	5450.1	4951.9	2819.1	1021.8	634.7	602.9	584.5	551.9	518.7	495.3	486.1
57.5°	5698.4	5060.9	2627.4	848.4	581.7	568.2	570.3	539.9	501.7	481.9	469.1
60°	5905.1	5140.8	2343.6	687.8	538.5	534.3	548.4	517.3	472.7	450.0	440.1
62.5°	6028.9	5139.4	1995.5	563.3	501.7	503.1	519.4	489.0	443.7	422.4	416.1
65°	6018.3	5013.5	1613.4	481.9	466.3	467.7	489.0	457.8	419.6	406.9	406.2
67.5°	5805.3	4706.4	1237.6	428.8	427.4	433.8	458.5	436.6	404.8	403.3	405.5
70°	5228.6	4068.8	891.6	386.4	387.1	396.3	428.8	423.2	397.0	399.8	399.1
72.5°	4192.6	3102.2	598.6	341.8	342.5	357.3	400.5	412.5	389.2	426.7	432.4
75°	2792.3	1934.6	384.9	294.4	295.1	314.2	375.7	392.0	368.0	425.3	428.8
77.5°	1341.6	869.7	278.8	247.7	247.7	265.4	324.8	351.0	313.5	330.5	302.9
80°	463.5	326.9	219.4	199.5	195.3	207.3	273.8	304.3	270.3	249.1	233.5
82.5°	182.6	169.8	176.2	155.0	140.8	148.6	213.0	251.2	198.8	179.7	179.0
85°	104.7	110.4	124.5	102.6	81.4	91.3	156.4	180.4	150.0	132.3	135.2
87.5°	28.3	38.9	57.3	53.1	36.8	38.9	74.3	99.8	86.3	66.5	68.6
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)