

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: P969736

Luminaire Tested: **NAV-SB6A-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969736  
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-SB6A-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 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: 22511 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

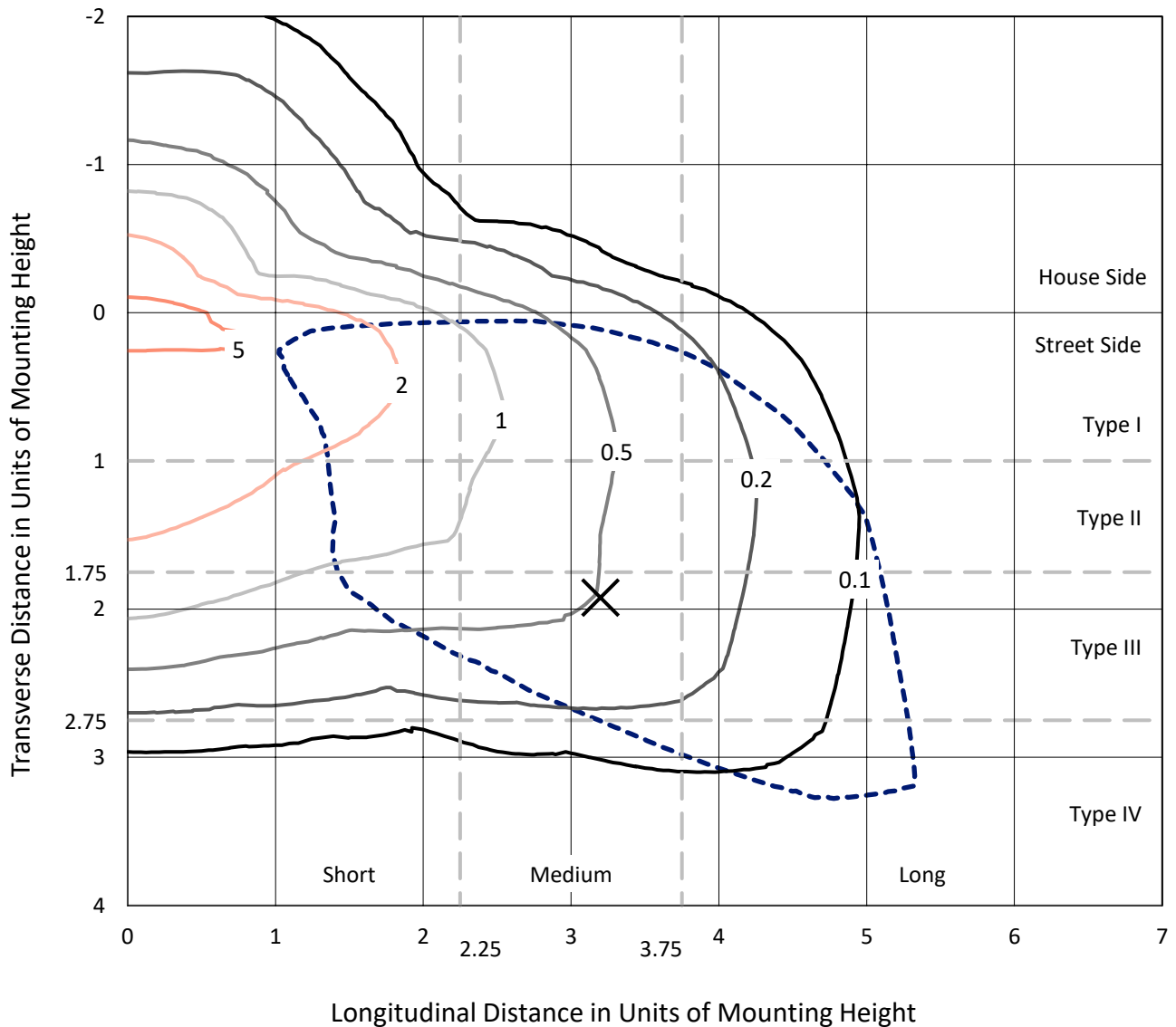
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

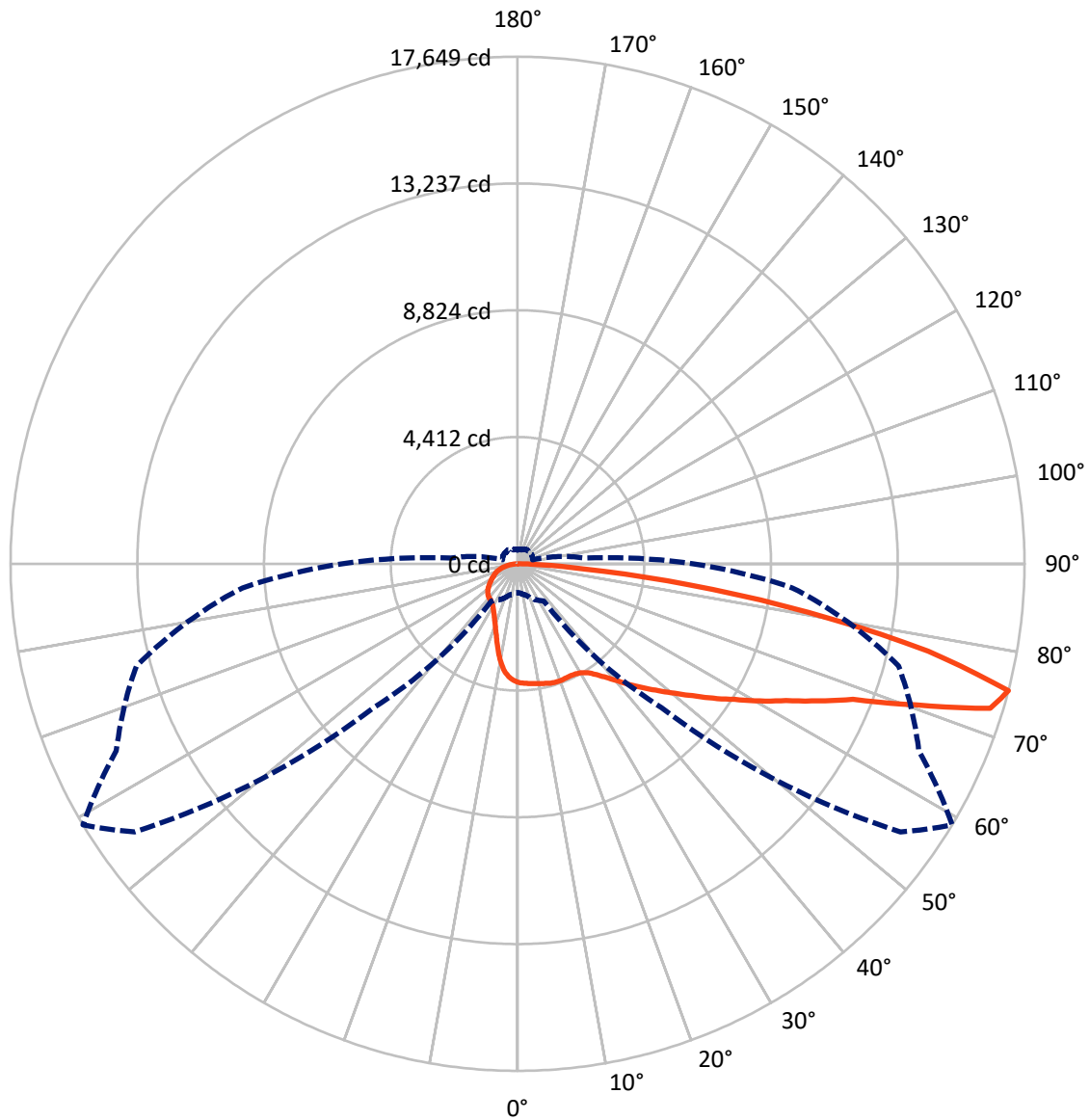
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4222.1	0.0	4222.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	18288.9	0.0	18288.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	22511.0	0.0	22511.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.5	1.6
10°-20°	947.0	4.2
20°-30°	1438.4	6.4
30°-40°	2138.1	9.5
40°-50°	3179.8	14.1
50°-60°	4316.2	19.2
60°-70°	5269.4	23.4
70°-80°	4135.3	18.4
80°-90°	716.3	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°	22511.0	100.0
0°-180°	22511.0	100.0

**Coefficient of Utilization**

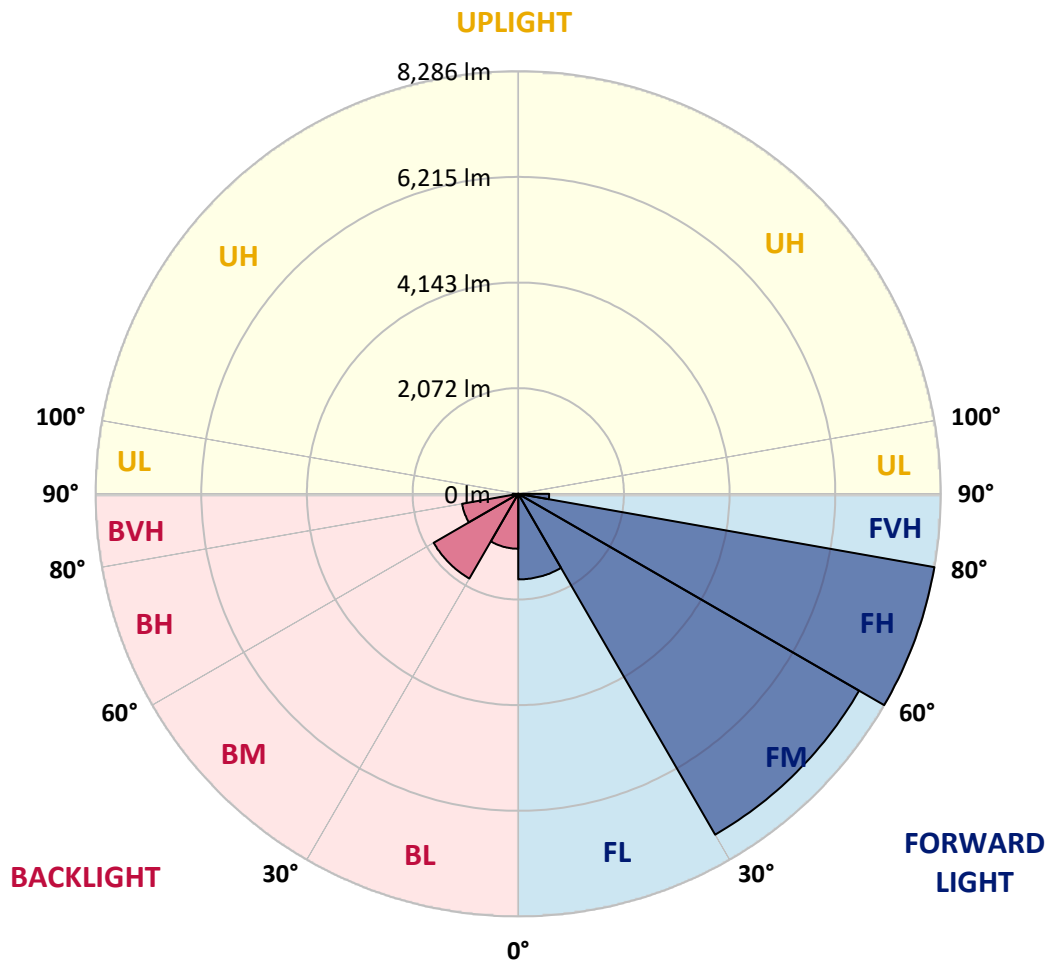


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.4	7.5			
FM (30°-60°)	7717.7	34.3			
FH (60°-80°)	8286.1	36.8			G4/12000
FVH (80°-90°)	606.7	2.7			G4/750
BL (0°-30°)	1077.4	4.8	B3/2500		
BM (30°-60°)	1916.4	8.5	B2/2500		
BH (60°-80°)	1118.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	109.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9
2.5°	4166.9	4152.5	4166.9	4160.9	4158.5	4153.6	4154.8	4163.3	4158.5	4164.6	4144.0
5°	4139.2	4130.6	4145.2	4141.5	4157.3	4159.7	4175.4	4185.2	4191.2	4192.4	4176.7
7.5°	4093.1	4084.6	4105.2	4122.1	4156.1	4165.8	4198.5	4214.2	4222.7	4237.2	4214.2
10°	3924.7	3921.1	3972.0	4036.1	4116.1	4165.8	4215.4	4242.1	4255.4	4294.1	4267.5
12.5°	3626.9	3631.7	3698.3	3821.8	3981.7	4141.5	4234.8	4273.5	4294.1	4342.5	4330.4
15°	3342.3	3341.1	3413.8	3545.8	3769.7	4035.0	4244.5	4311.0	4346.2	4417.6	4407.9
17.5°	3177.6	3172.8	3223.6	3324.2	3532.5	3871.5	4220.2	4331.6	4406.8	4496.4	4487.9
20°	3147.4	3137.6	3164.3	3213.9	3361.7	3692.3	4157.3	4331.6	4455.2	4571.4	4566.6
22.5°	3257.6	3241.8	3230.9	3224.9	3290.2	3544.6	4085.9	4317.1	4526.6	4679.2	4670.7
25°	3479.2	3455.0	3399.2	3344.7	3325.3	3477.9	4022.8	4313.5	4633.2	4824.6	4793.0
27.5°	3837.6	3807.4	3694.7	3563.9	3446.5	3511.9	3995.0	4335.3	4750.7	4978.3	4915.4
30°	4282.0	4249.3	4107.6	3906.6	3695.9	3637.7	4030.1	4399.5	4900.8	5183.0	5059.5
32.5°	4680.5	4644.1	4523.0	4318.3	4033.8	3855.7	4141.5	4521.8	5137.0	5467.6	5276.2
35°	5034.0	4991.6	4882.7	4693.8	4447.9	4162.1	4342.5	4738.6	5472.4	5930.1	5570.5
37.5°	5380.3	5330.7	5212.0	5012.2	4840.3	4570.3	4619.9	5017.1	5918.0	6492.0	5960.5
40°	5767.9	5696.4	5552.3	5354.9	5187.8	5048.5	4984.4	5358.6	6371.0	7119.3	6447.2
42.5°	6143.2	6075.5	5903.5	5735.2	5525.7	5485.7	5407.0	5758.2	6866.3	7808.3	6941.3
45°	6547.8	6466.6	6258.3	6045.2	5913.2	5776.4	5816.4	6157.8	7351.8	8510.8	7459.6
47.5°	6926.7	6835.9	6590.1	6352.7	6280.2	6021.0	6191.7	6597.4	7856.8	9222.8	7973.1
50°	7131.4	7041.9	6837.2	6622.8	6565.9	6322.5	6598.6	7080.6	8386.0	9932.5	8466.0
52.5°	7302.2	7205.3	6937.7	6819.0	6802.1	6650.7	7100.0	7632.8	8915.2	10559.8	8941.9
55°	7483.8	7376.1	7034.6	6928.0	7005.5	7018.8	7694.6	8258.8	9474.7	11171.3	9391.2
57.5°	7693.3	7556.5	7127.8	7020.0	7204.1	7449.9	8377.5	8908.0	10024.5	11738.0	9790.7
60°	7890.8	7752.7	7307.0	7166.6	7418.4	7950.1	9161.0	9693.8	10646.9	12243.0	10168.6
62.5°	7929.5	7815.6	7449.9	7448.7	7709.1	8533.7	10088.7	10487.1	11190.6	12741.9	10507.7
65°	7258.6	7187.2	6970.4	7437.8	8125.7	9374.1	11121.7	11501.8	11882.1	13177.8	10805.6
67.5°	5524.4	5534.2	5518.4	6420.6	7789.0	10581.5	12617.1	12588.1	12735.8	13667.0	11148.2
70°	2526.1	2583.0	2953.5	4432.2	6240.2	10720.8	15089.9	14713.4	13807.6	14300.4	11444.9
72.5°	1364.8	1408.4	1559.7	2147.1	3751.6	9531.6	16937.9	17205.5	15232.8	14726.7	11119.2
75°	1001.5	1025.7	1131.1	1364.8	1575.5	7084.2	16275.6	17648.8	15410.9	13732.4	9601.8
77.5°	749.6	760.4	846.4	1081.4	806.5	3734.7	13004.7	14616.5	13192.4	11282.7	7092.7
80°	543.8	555.9	620.0	811.4	565.5	1366.0	8929.7	10259.4	9035.1	7192.0	3534.8
82.5°	375.4	380.3	408.1	552.2	394.7	530.4	5066.7	6016.1	5043.7	2523.7	954.3
85°	226.4	232.5	244.7	322.2	224.1	251.8	2187.0	2262.1	1507.7	603.1	296.7
87.5°	93.3	99.3	109.0	135.6	88.4	70.2	360.9	452.9	282.2	176.8	92.0
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°	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9	4131.9
2.5°	4137.9	4129.4	4106.5	4074.9	4045.9	4009.6	3993.8	3980.5	3968.4	3945.3	3934.5
5°	4163.3	4140.3	4078.6	3998.6	3907.8	3808.5	3711.6	3645.0	3588.1	3545.8	3510.6
7.5°	4202.1	4158.5	4045.9	3882.4	3674.1	3461.0	3268.4	3131.6	3028.7	2991.2	2925.8
10°	4242.1	4190.0	3993.8	3705.6	3345.9	3017.8	2762.3	2621.7	2539.4	2512.8	2471.6
12.5°	4289.3	4213.0	3912.6	3459.8	2979.0	2619.4	2396.6	2314.1	2271.8	2257.3	2260.9
15°	4358.3	4232.3	3790.3	3152.2	2629.0	2328.7	2184.6	2127.7	2105.9	2104.6	2109.6
17.5°	4410.4	4236.0	3600.2	2822.7	2360.2	2153.1	2034.4	2012.7	2027.1	2049.0	2057.5
20°	4468.5	4203.3	3350.7	2522.4	2171.3	1999.4	1949.7	1964.2	1999.4	2030.8	2041.7
22.5°	4509.7	4144.0	3049.3	2288.7	2007.8	1910.9	1908.5	1938.8	1958.2	1973.8	1982.4
25°	4546.0	4043.4	2729.6	2092.5	1873.4	1857.6	1884.3	1874.6	1861.3	1874.6	1883.0
27.5°	4572.6	3884.9	2443.7	1920.6	1778.9	1821.3	1805.5	1783.8	1782.6	1789.9	1802.0
30°	4564.2	3672.9	2208.8	1757.2	1712.4	1753.5	1716.0	1712.4	1708.7	1712.4	1725.7
32.5°	4564.2	3431.9	2028.4	1644.5	1669.9	1654.1	1650.6	1642.0	1627.6	1626.4	1642.0
35°	4589.6	3190.9	1873.4	1583.9	1634.8	1597.3	1599.7	1579.1	1548.9	1534.3	1548.9
37.5°	4641.7	2997.2	1719.5	1554.9	1573.1	1571.8	1562.2	1527.0	1473.7	1427.7	1443.5
40°	4767.6	2940.2	1614.3	1541.6	1544.0	1558.5	1533.1	1465.2	1344.2	1269.2	1278.8
42.5°	4965.0	3035.9	1591.2	1508.9	1524.6	1539.1	1489.5	1332.1	1246.1	1201.3	1201.3
45°	5215.7	3203.0	1640.9	1461.6	1478.6	1504.0	1356.3	1281.2	1242.5	1243.6	1249.7
47.5°	5533.0	3378.6	1732.9	1420.4	1412.0	1426.5	1267.9	1221.9	1168.6	1181.9	1215.9
50°	5899.9	3556.6	1820.1	1364.8	1338.1	1290.9	1210.9	1167.4	1099.5	1068.0	1076.6
52.5°	6297.1	3728.6	1855.2	1296.9	1258.2	1203.8	1172.2	1119.0	1036.6	984.5	983.3
55°	6673.7	3884.9	1816.5	1215.9	1178.2	1135.9	1131.1	1098.4	1009.9	937.3	937.3
57.5°	7029.8	4015.6	1719.5	1133.4	1097.2	1071.7	1104.4	1088.7	977.2	884.1	879.1
60°	7331.2	4105.2	1579.1	1049.9	1024.5	1011.2	1060.8	1056.0	931.2	827.1	823.5
62.5°	7571.1	4140.3	1424.1	970.0	963.9	939.7	1000.3	1000.3	873.1	771.4	767.7
65°	7758.7	4106.5	1266.7	891.2	903.4	867.0	926.4	919.1	811.4	721.7	716.9
67.5°	7924.6	3995.0	1092.3	813.7	841.6	795.6	848.9	831.9	743.5	672.1	667.3
70°	7998.5	3735.8	893.7	736.3	770.2	725.4	771.4	739.9	667.3	618.8	609.2
72.5°	7405.1	3104.9	703.6	655.2	684.2	647.9	687.9	651.5	584.9	563.1	544.9
75°	6126.3	2329.9	541.3	566.7	588.6	560.7	587.3	560.7	500.1	515.9	471.1
77.5°	4449.1	1573.1	414.2	473.4	483.2	468.6	491.7	461.4	406.9	403.2	385.1
80°	2212.5	921.6	324.5	374.2	370.5	360.9	387.6	373.0	327.0	346.3	342.7
82.5°	640.6	394.7	236.2	262.8	255.5	257.9	277.3	284.5	426.3	422.6	432.3
85°	201.0	155.0	141.7	146.6	139.3	142.9	163.5	324.5	300.3	175.6	190.1
87.5°	52.1	53.3	35.2	37.5	38.7	46.0	52.1	197.4	94.5	61.8	65.4
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)