

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: P971335

Luminaire Tested: **NAV-SB6D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

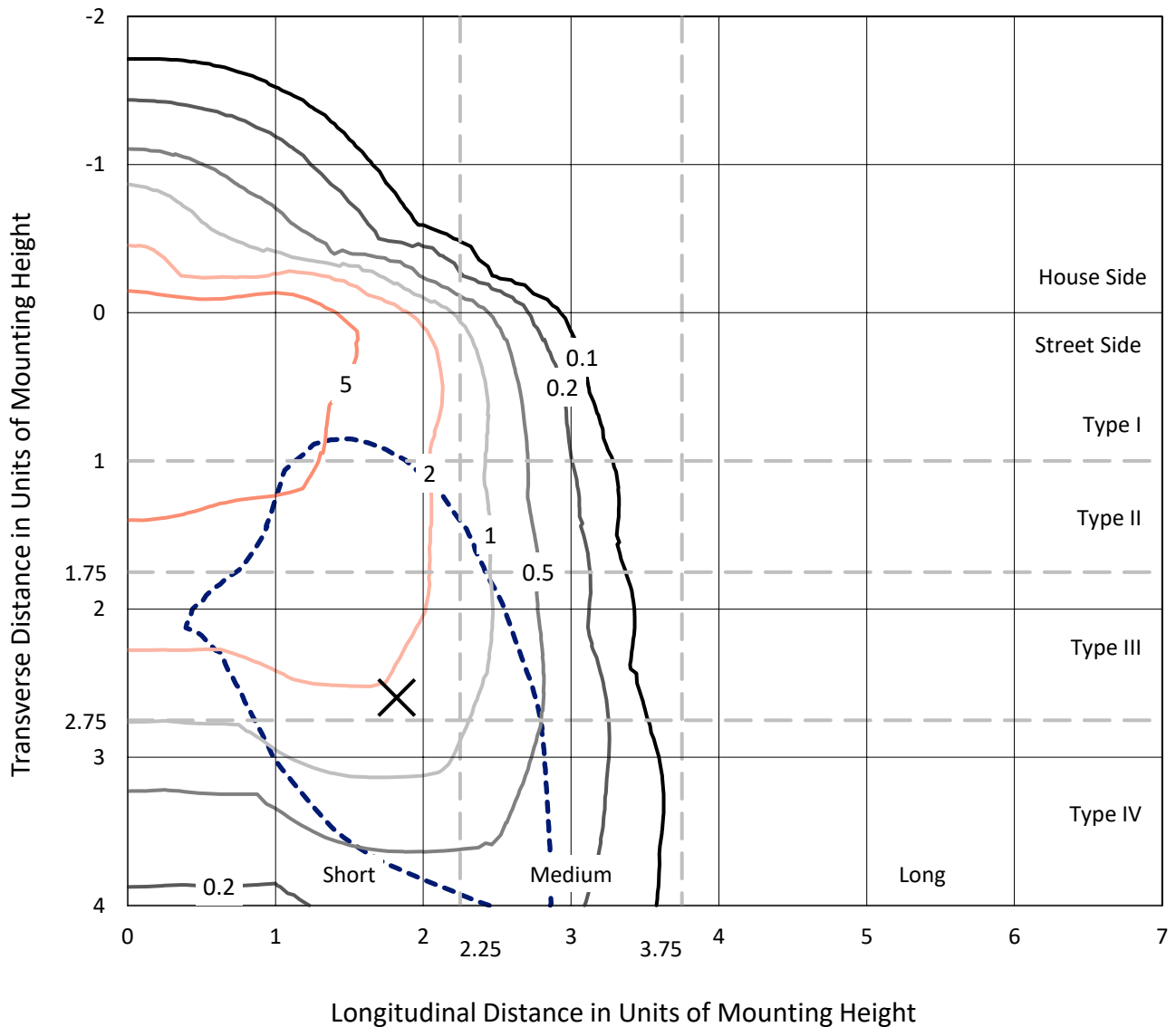
Lumens per Lamp: N/A  
Luminaire Lumens: 39560.9 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

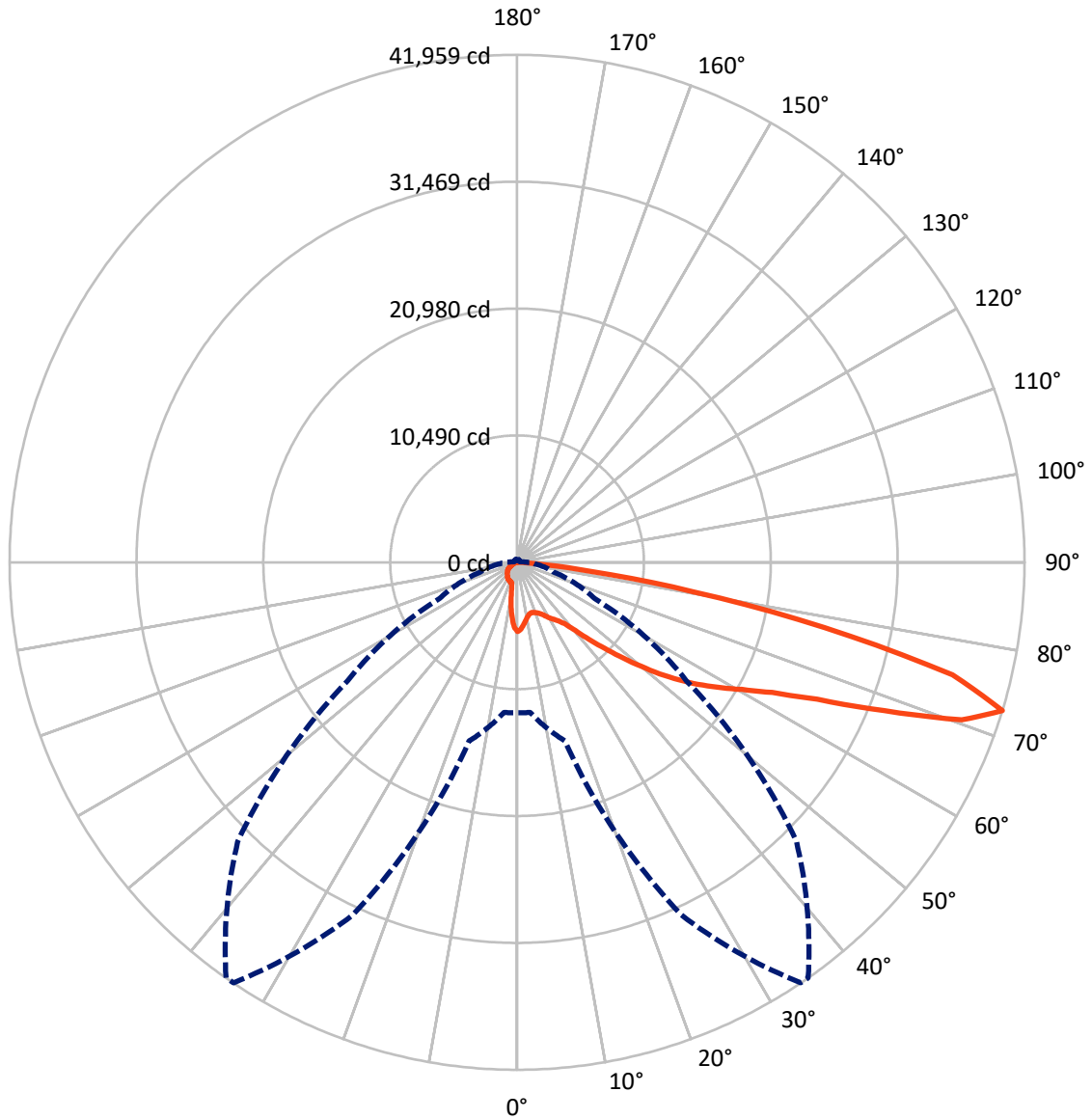
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4452.4	0.0	4452.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	35108.5	0.0	35108.5
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	39560.9	0.0	39560.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.2	1.2
10°-20°	1102.2	2.8
20°-30°	1790.5	4.5
30°-40°	2987.5	7.6
40°-50°	5652.4	14.3
50°-60°	8981.6	22.7
60°-70°	11110.8	28.1
70°-80°	6906.6	17.5
80°-90°	558.2	1.4
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°	39560.9	100.0
0°-180°	39560.9	100.0

**Coefficient of Utilization**

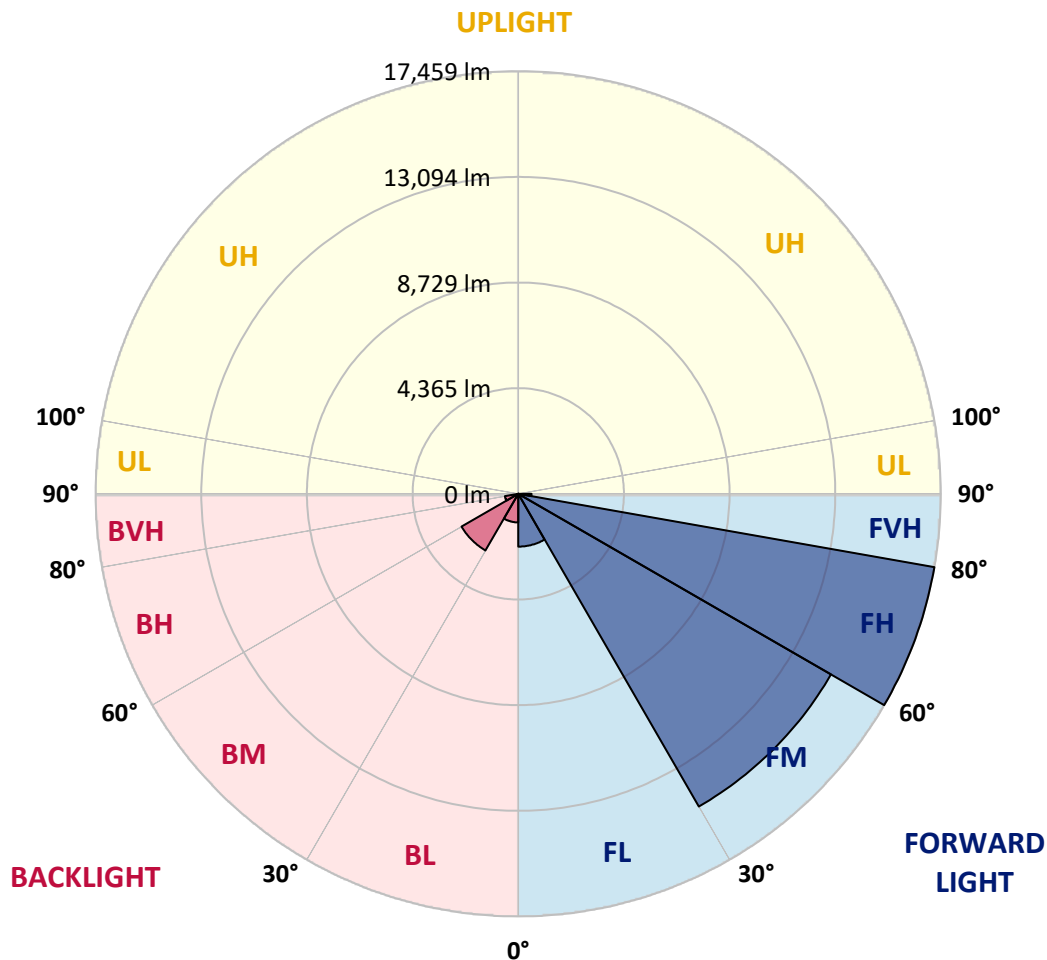


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2180.8	5.5			
FM	(30°-60°)	14918.4	37.7			
FH	(60°-80°)	17458.7	44.1			G5
FVH	(80°-90°)	550.6	1.4			G4/750
BL	(0°-30°)	1183.1	3.0	B3/2500		
BM	(30°-60°)	2703.0	6.8	B3/5000		
BH	(60°-80°)	558.7	1.4	B2/1000		G2/1000
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7
2.5°	5478.6	5525.0	5533.7	5548.2	5548.2	5565.5	5594.6	5635.1	5701.8	5736.6	5759.8
5°	5049.6	5084.4	5127.9	5162.6	5229.3	5238.1	5351.1	5461.2	5614.8	5730.8	5812.0
7.5°	4617.7	4658.3	4716.2	4800.3	4887.3	4913.3	5084.4	5269.9	5513.4	5730.8	5867.0
10°	4313.3	4316.2	4368.3	4452.5	4591.6	4623.5	4832.2	5096.0	5400.3	5696.0	5919.2
12.5°	4142.3	4162.6	4185.8	4249.5	4382.9	4403.2	4626.3	4936.5	5287.3	5675.7	5980.1
15°	4142.3	4156.8	4171.2	4203.2	4310.4	4327.9	4525.0	4835.1	5229.3	5684.4	6078.7
17.5°	4185.8	4209.0	4197.4	4235.1	4348.2	4359.7	4533.6	4806.1	5226.4	5739.5	6229.3
20°	4290.1	4307.6	4284.3	4307.6	4420.6	4443.8	4623.5	4861.2	5275.7	5835.1	6417.8
22.5°	4455.4	4464.1	4408.9	4426.4	4542.3	4571.3	4780.0	5017.7	5394.6	5988.8	6670.0
25°	4664.1	4681.5	4597.4	4617.7	4727.8	4762.7	5003.2	5252.5	5583.0	6200.4	6991.7
27.5°	4904.6	4913.3	4840.9	4838.0	4980.1	5029.3	5272.8	5542.4	5835.1	6467.0	7397.5
30°	5180.0	5206.2	5136.6	5125.0	5304.7	5345.3	5585.8	5899.0	6206.2	6867.1	7974.4
32.5°	5397.4	5417.7	5377.2	5406.2	5588.8	5620.7	5965.6	6403.3	6788.9	7435.2	8760.0
35°	5710.5	5722.1	5629.3	5681.5	5890.3	5971.4	6484.5	7110.6	7522.3	8148.3	9786.1
37.5°	6843.9	6843.9	6449.7	6191.7	6391.7	6464.2	7194.7	8000.5	8426.6	9105.0	11079.0
40°	8412.2	8386.0	7809.2	7281.6	7255.6	7397.5	8206.4	9122.3	9594.8	10252.9	12534.1
42.5°	10084.7	10044.1	9258.5	8736.8	8649.9	8699.1	9374.5	10505.0	10986.3	11652.9	14099.5
45°	11568.9	11557.3	10838.3	10136.8	9980.3	10136.8	10832.6	12122.5	12467.5	13169.0	15661.9
47.5°	12812.4	12812.4	12287.7	11829.7	11748.6	11841.3	12806.7	13916.8	13885.0	14783.6	17183.7
50°	14244.4	14232.8	13734.2	13537.1	13621.1	13751.6	15079.2	15806.8	15351.7	16369.1	18543.2
52.5°	15247.4	15316.9	15145.9	15114.0	15543.0	15769.1	17386.7	17656.2	16664.9	17873.6	19560.7
55°	16041.6	16122.7	16319.8	16543.1	17369.2	17664.8	19621.6	19409.9	17763.5	19178.1	20146.2
57.5°	17166.3	17050.4	17354.7	17795.3	19131.6	19488.2	21786.9	21065.1	18647.6	20236.1	20210.0
60°	18531.6	18549.0	18601.2	19157.8	20891.2	21349.2	23920.3	22630.5	19215.7	20885.4	19502.7
62.5°	20172.3	20198.4	20305.7	21160.8	23253.7	23685.6	26193.0	23911.7	19476.6	20702.7	17676.5
65°	20059.2	20169.4	21366.6	24291.4	26845.2	27271.4	28845.3	24810.3	19082.4	19033.1	14392.2
67.5°	18273.6	18453.4	20456.3	28030.8	32260.0	32735.4	32051.3	24987.1	17380.8	14800.9	9389.0
70°	15931.5	15995.2	18404.1	31393.3	38530.0	39011.2	34921.0	23042.1	13189.3	8255.6	4206.1
72.5°	12441.3	12455.9	15282.1	32173.1	41933.2	41959.2	32668.8	17105.4	7093.2	3171.2	1460.9
75°	8887.6	8800.5	10235.4	26091.5	36892.2	37187.9	24491.5	8023.7	2710.3	1498.7	727.5
77.5°	4765.5	4861.2	5791.7	15473.5	25485.7	25990.1	13363.1	2313.2	1379.8	1020.4	481.2
80°	1472.5	1553.7	2374.1	7084.5	14435.7	14740.1	4953.9	1029.1	962.4	727.5	316.0
82.5°	463.8	481.2	1107.3	2977.0	5991.6	6130.8	1434.9	582.6	658.0	481.2	185.5
85°	133.4	136.2	492.8	1110.2	1481.2	1510.2	402.9	226.1	376.8	298.6	95.6
87.5°	14.5	46.3	185.5	185.5	130.5	127.5	43.5	49.3	107.2	37.7	17.4
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°	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7	5733.7
2.5°	5745.3	5748.2	5710.5	5646.7	5577.1	5519.2	5446.7	5388.7	5348.1	5336.6	5356.9
5°	5785.9	5765.6	5658.3	5464.1	5232.2	5032.2	4809.0	4632.2	4516.3	4467.0	4484.4
7.5°	5846.7	5788.8	5554.0	5171.3	4727.8	4333.6	3933.5	3623.4	3426.3	3327.8	3342.2
10°	5899.0	5782.9	5380.0	4748.1	4069.9	3472.7	2933.5	2559.6	2350.8	2252.3	2255.2
12.5°	5948.2	5780.1	5153.9	4246.7	3327.8	2597.2	2095.8	1910.3	1852.3	1832.0	1826.2
15°	6040.9	5788.8	4869.9	3672.7	2588.5	1962.5	1779.8	1776.9	1788.5	1782.7	1779.8
17.5°	6168.6	5797.5	4548.1	3063.9	1997.2	1730.5	1721.9	1747.9	1765.4	1756.6	1753.8
20°	6333.8	5832.2	4206.1	2461.0	1716.1	1672.6	1692.9	1716.1	1730.5	1716.1	1713.2
22.5°	6565.6	5893.1	3832.2	1976.9	1626.2	1637.7	1655.2	1681.3	1695.8	1675.5	1672.6
25°	6849.7	5988.8	3464.0	1718.9	1582.7	1597.2	1623.3	1652.3	1669.6	1649.4	1646.5
27.5°	7217.8	6142.4	3124.8	1661.0	1539.2	1548.0	1585.6	1629.1	1652.3	1626.2	1626.2
30°	7751.3	6394.6	2832.1	1687.0	1513.1	1492.8	1545.0	1605.9	1632.0	1608.8	1605.9
32.5°	8458.5	6751.2	2652.4	1727.6	1501.5	1429.1	1478.4	1556.7	1600.1	1585.6	1585.6
35°	9386.1	7293.2	2582.8	1774.1	1492.8	1362.4	1397.2	1481.2	1556.7	1571.1	1571.1
37.5°	10510.9	8046.9	2603.1	1794.4	1466.8	1307.3	1324.7	1397.2	1495.8	1542.1	1553.7
40°	11789.1	8925.2	2719.0	1774.1	1437.8	1261.0	1263.8	1319.0	1405.9	1475.5	1498.7
42.5°	13108.1	9951.3	2933.5	1698.6	1411.7	1220.4	1211.7	1249.4	1307.3	1356.6	1376.9
45°	14363.2	11006.6	3145.1	1594.3	1379.8	1179.8	1159.5	1174.0	1185.6	1205.9	1217.5
47.5°	15458.9	11748.6	3084.2	1498.7	1336.3	1133.4	1098.6	1092.9	1058.0	1055.1	1052.3
50°	16215.5	11910.9	2739.3	1403.0	1272.5	1081.3	1026.1	991.4	930.5	901.5	904.4
52.5°	16456.2	11270.3	2237.8	1307.3	1168.2	1011.7	933.4	878.3	803.0	776.8	774.0
55°	16137.3	10015.2	1788.5	1191.4	1023.3	918.9	831.9	759.4	698.6	666.7	666.7
57.5°	15357.5	8417.9	1414.6	1055.1	869.6	814.6	727.5	655.1	602.9	571.0	565.3
60°	14064.6	6684.5	1118.9	892.8	742.1	701.5	611.6	565.3	518.9	481.2	472.5
62.5°	12102.2	4771.3	878.3	707.2	620.3	574.0	521.7	487.0	431.9	379.8	371.0
65°	9444.0	2919.0	678.3	518.9	498.6	475.4	443.5	411.6	344.9	292.7	284.0
67.5°	5956.9	1382.7	484.1	391.3	394.2	382.6	368.2	342.0	292.7	246.4	240.6
70°	2623.4	669.6	318.9	298.6	292.7	292.7	304.3	295.7	249.3	205.8	197.1
72.5°	892.8	359.5	237.7	226.1	211.6	208.7	255.1	246.4	200.0	159.4	150.8
75°	466.7	240.6	173.9	162.4	127.5	153.6	203.0	191.4	142.1	104.3	95.6
77.5°	304.3	171.1	118.8	104.3	72.5	101.5	150.8	133.4	84.0	52.2	46.3
80°	191.4	113.1	69.6	49.3	34.7	55.0	81.2	58.0	31.9	11.6	8.7
82.5°	101.5	58.0	26.1	17.4	14.5	17.4	20.3	14.5	5.8	0.0	0.0
85°	40.6	20.3	8.7	5.8	2.9	0.0	5.8	2.9	0.0	0.0	0.0
87.5°	14.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)