

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: P885267

Luminaire Tested: **NAV-SB6C-722-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885267  
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-SB6C-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35891 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

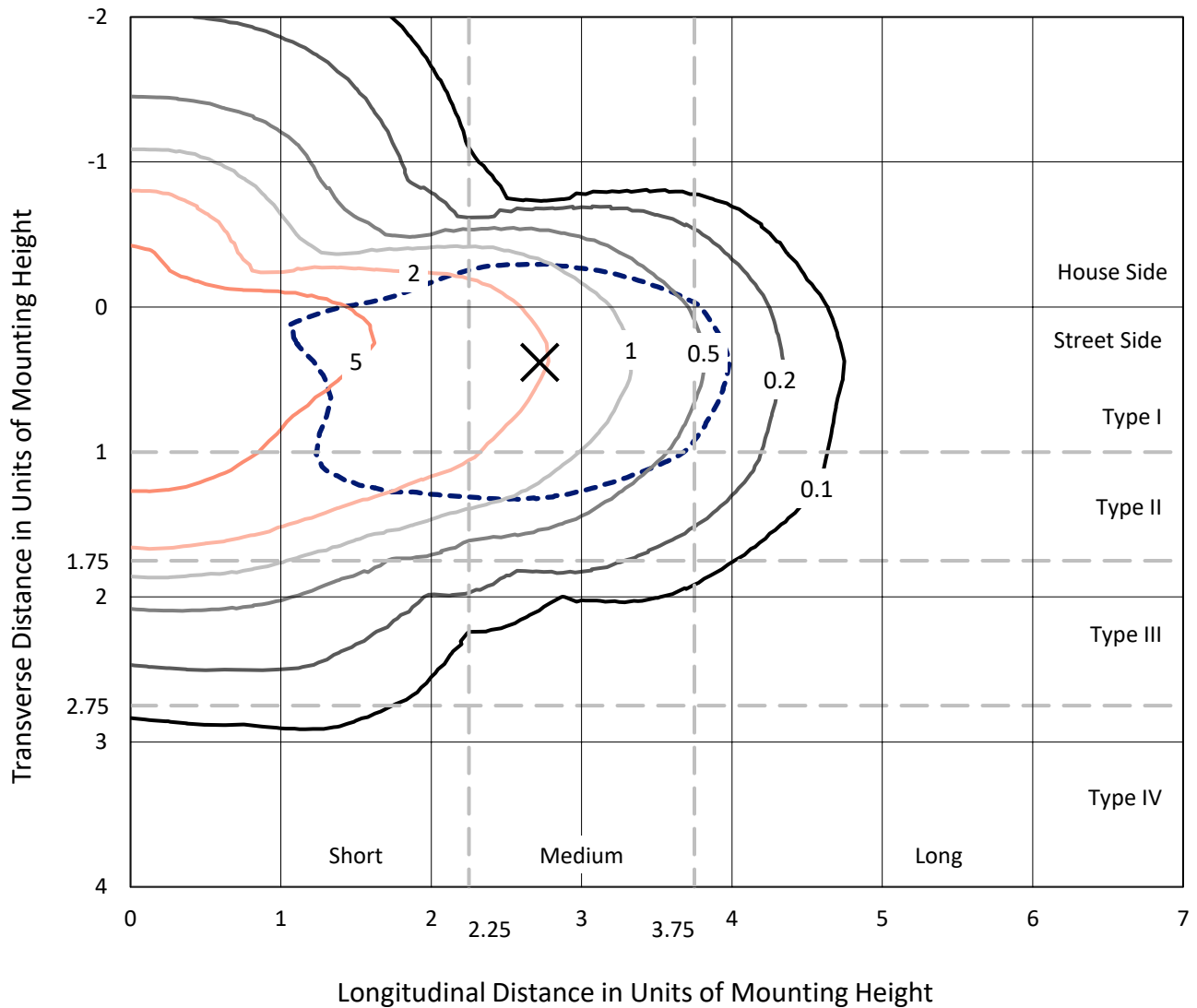
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 2.518  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

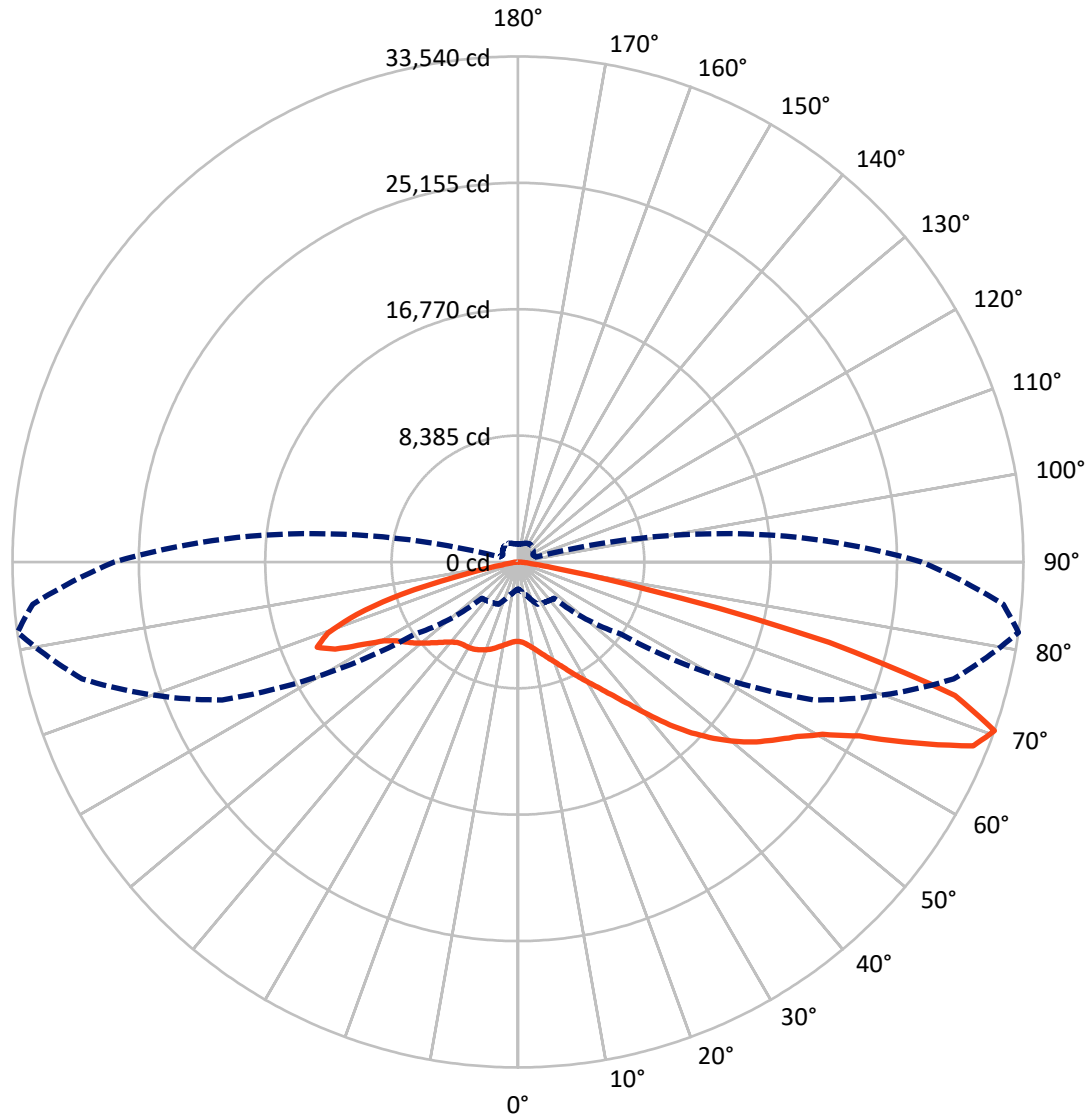
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	8848.0	0.0	8848.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	27043.0	0.0	27043.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	35891.0	0.0	35891.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	496.8	1.4
10°-20°	1427.4	4.0
20°-30°	2387.9	6.7
30°-40°	3730.6	10.4
40°-50°	5941.4	16.6
50°-60°	8268.2	23.0
60°-70°	8648.9	24.1
70°-80°	4520.4	12.6
80°-90°	469.4	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°	35891.0	100.0
0°-180°	35891.0	100.0

**Coefficient of Utilization**

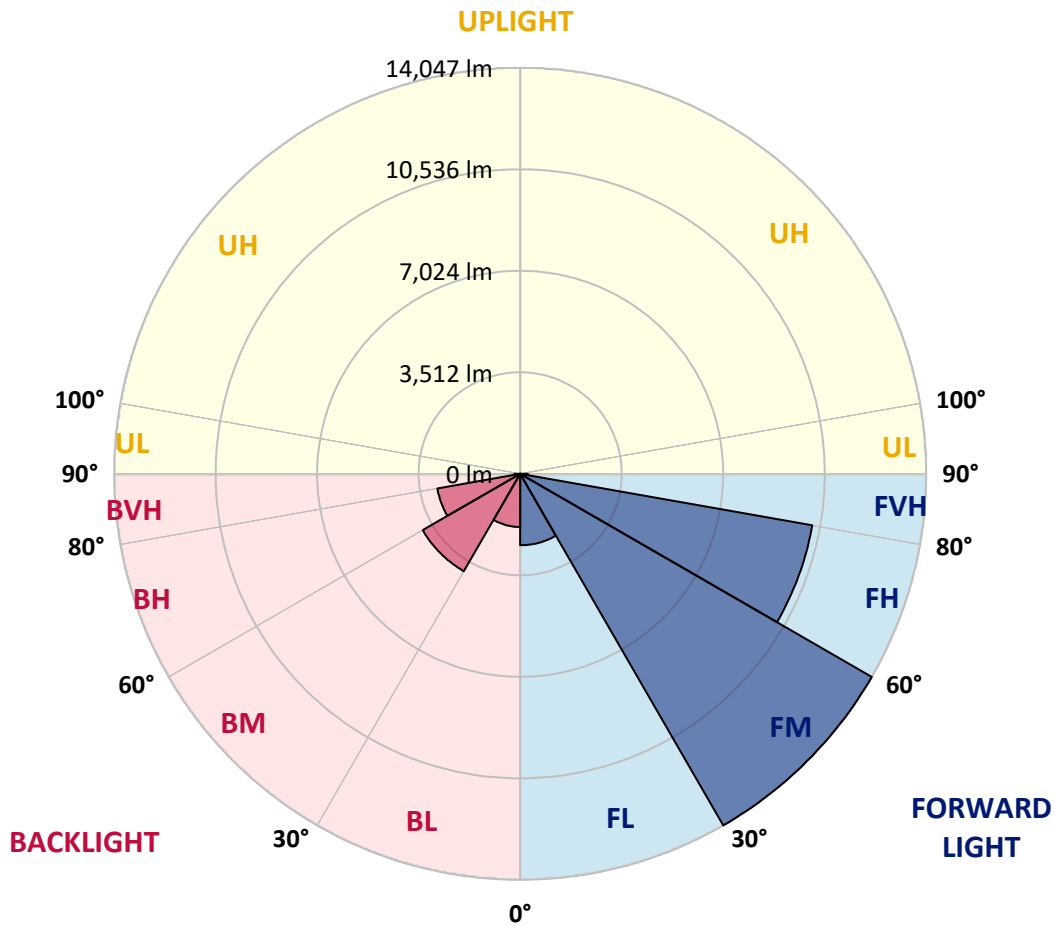


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2471.5	6.9			
FM (30°-60°)	14047.4	39.1			
FH (60°-80°)	10261.3	28.6			G4/12000
FVH (80°-90°)	262.8	0.7			G3/500
BL (0°-30°)	1840.7	5.1	B3/2500		
BM (30°-60°)	3892.8	10.8	B3/5000		
BH (60°-80°)	2907.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	206.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5387.8	5418.2	5408.7	5399.2	5399.2	5385.9	5384.0	5364.9	5349.7	5324.9	5319.2
5°	5456.3	5488.7	5484.9	5492.5	5517.3	5523.0	5528.7	5517.3	5486.8	5456.3	5443.0
7.5°	5395.4	5431.6	5443.0	5488.7	5564.9	5633.4	5684.9	5705.8	5677.2	5633.4	5612.5
10°	5189.7	5229.7	5269.7	5378.2	5513.5	5675.3	5812.5	5894.4	5888.6	5846.7	5810.6
12.5°	4772.6	4814.5	4900.2	5111.6	5359.2	5644.9	5900.1	6071.5	6130.5	6100.0	6037.2
15°	4439.3	4475.5	4540.3	4757.4	5079.2	5513.5	5932.4	6265.7	6416.2	6399.0	6322.9
17.5°	4429.8	4445.0	4485.0	4587.9	4835.5	5307.8	5898.2	6456.2	6743.8	6741.8	6646.6
20°	4597.4	4603.1	4626.0	4646.9	4787.9	5151.6	5810.6	6614.2	7111.3	7111.3	7008.5
22.5°	4829.8	4825.9	4848.8	4829.8	4898.3	5138.3	5755.3	6753.3	7520.8	7551.3	7421.7
25°	5178.3	5159.2	5153.5	5109.7	5123.0	5262.1	5816.3	6911.3	8006.4	8069.3	7907.4
27.5°	5643.0	5612.5	5591.5	5490.6	5456.3	5517.3	6002.9	7101.8	8547.3	8655.8	8450.2
30°	6248.6	6193.4	6162.9	5987.7	5863.9	5873.4	6284.8	7355.1	9112.9	9288.1	9027.2
32.5°	7075.1	6989.4	6907.5	6620.0	6393.3	6319.1	6648.5	7705.5	9726.2	10006.1	9670.9
35°	8000.7	7932.1	7844.5	7400.8	7052.3	6880.9	7139.9	8195.0	10444.2	10887.9	10451.8
37.5°	8892.0	8833.0	8874.9	8276.9	7827.4	7577.9	7783.6	8852.0	11329.7	11984.9	11430.7
40°	9813.8	9768.1	9773.8	9202.4	8678.7	8398.7	8564.4	9676.6	12344.8	13289.4	12607.6
42.5°	10815.5	10781.2	10667.0	10160.4	9571.9	9311.0	9463.3	10628.9	13434.2	14774.9	13898.9
45°	11937.3	11916.3	11809.7	11228.8	10554.6	10261.3	10467.0	11680.2	14529.3	16172.8	15195.8
47.5°	12906.6	12923.8	12910.4	12421.0	11722.1	11291.6	11537.3	12777.1	15548.1	17486.9	16439.4
50°	13373.2	13462.7	13594.2	13441.8	13007.6	12569.5	12617.2	13836.0	16519.4	18719.1	17631.6
52.5°	13129.5	13299.0	13657.0	13900.8	14068.4	13977.0	13849.4	14887.3	17433.6	19831.3	18759.1
55°	12221.0	12459.1	13053.3	13641.8	14496.9	15161.5	15329.1	16052.8	18324.9	20810.2	19825.6
57.5°	10566.0	10952.6	11485.9	12676.2	14116.0	15734.8	17054.6	17669.7	19269.5	21855.8	20941.6
60°	7728.4	8246.4	8909.1	10680.3	12782.8	15428.2	18522.9	20153.2	20612.2	23209.9	22394.7
62.5°	4945.9	5265.9	5875.3	7543.6	9960.4	13857.0	18972.4	23257.5	22888.0	25430.5	24573.5
65°	3386.2	3591.8	4149.9	5086.9	6439.0	10314.6	17768.8	25584.7	26502.7	28950.0	28298.6
67.5°	2460.6	2616.8	3092.9	3913.7	4195.6	6103.8	13788.4	25478.1	30016.5	32576.1	31562.9
70°	1794.0	1904.5	2304.4	3092.9	3228.1	3395.7	8353.0	21657.7	29940.3	33539.7	32326.6
72.5°	1329.3	1405.5	1674.0	2399.6	2612.9	2293.0	4134.6	15740.5	25727.6	30336.4	29363.2
75°	961.8	1018.9	1217.0	1835.9	2091.1	1746.4	2062.5	9198.6	17945.9	21339.7	21511.1
77.5°	735.1	778.9	908.4	1344.6	1674.0	1310.3	1279.8	4231.7	8509.2	8551.1	9031.0
80°	590.4	619.0	689.4	946.5	1283.6	980.8	834.2	1708.3	2689.1	2275.8	2388.2
82.5°	434.2	481.8	582.8	664.7	918.0	676.1	508.5	862.7	1022.7	879.9	887.5
85°	247.6	280.0	352.3	476.1	586.6	413.3	291.4	382.8	476.1	390.4	348.5
87.5°	87.6	114.3	123.8	186.6	255.2	171.4	112.4	110.5	156.2	116.2	97.1
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°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5300.2	5290.6	5252.5	5201.1	5147.8	5096.4	5079.2	5043.1	5018.3	5005.0	5020.2
5°	5406.8	5376.3	5286.8	5172.6	5052.6	4923.1	4831.7	4747.9	4686.9	4629.8	4652.6
7.5°	5559.2	5505.8	5351.6	5151.6	4938.3	4723.1	4563.1	4441.2	4359.3	4306.0	4317.4
10°	5736.3	5654.4	5418.2	5119.2	4789.8	4481.2	4292.7	4187.9	4136.5	4108.0	4115.6
12.5°	5940.1	5823.9	5486.8	5045.0	4563.1	4210.8	4081.3	4050.8	4052.7	4054.6	4058.4
15°	6191.5	6029.6	5542.0	4883.1	4267.9	4003.2	3980.4	4029.9	4081.3	4106.1	4104.1
17.5°	6475.2	6246.7	5551.5	4616.5	3978.5	3869.9	3942.3	4048.9	4127.0	4161.3	4168.9
20°	6779.9	6467.6	5483.0	4239.4	3740.4	3761.3	3890.8	4028.0	4113.7	4157.5	4168.9
22.5°	7128.5	6703.8	5319.2	3843.2	3546.1	3643.3	3795.6	3928.9	4018.4	4062.2	4073.7
25°	7526.5	6968.5	5062.1	3510.0	3378.5	3510.0	3662.3	3772.8	3845.1	3885.1	3896.6
27.5°	7968.3	7244.6	4719.3	3245.2	3231.9	3372.8	3498.5	3584.2	3622.3	3652.8	3664.2
30°	8412.1	7496.0	4304.1	3045.3	3104.3	3237.6	3327.1	3365.2	3376.6	3382.4	3395.7
32.5°	8892.0	7713.1	3868.0	2879.6	2982.4	3106.2	3159.5	3176.7	3123.3	3087.2	3098.6
35°	9472.9	7945.5	3441.4	2748.2	2862.4	2969.1	2986.2	2971.0	2908.1	2833.9	2837.7
37.5°	10190.9	8235.0	3100.5	2654.8	2750.1	2820.5	2799.6	2795.8	2801.5	2713.9	2719.6
40°	11070.7	8612.0	2851.0	2582.5	2658.6	2673.9	2614.8	2647.2	2675.8	2542.5	2546.3
42.5°	12047.7	9067.2	2692.9	2533.0	2582.5	2546.3	2454.9	2491.1	2487.2	2312.0	2310.1
45°	13043.8	9562.4	2637.7	2496.8	2512.0	2439.6	2338.7	2348.2	2268.2	2110.2	2115.9
47.5°	14034.1	10093.7	2672.0	2466.3	2424.4	2342.5	2264.4	2222.5	2104.4	1986.4	1986.4
50°	15005.4	10651.7	2797.7	2405.4	2304.4	2256.8	2199.7	2125.4	1999.7	1898.8	1891.1
52.5°	15906.2	11213.6	2938.6	2304.4	2154.0	2182.5	2146.3	2060.6	1936.9	1834.0	1835.9
55°	16759.4	11775.4	2993.8	2165.4	2013.0	2117.8	2096.8	1938.8	1790.2	1706.4	1698.8
57.5°	17688.8	12451.5	2932.9	1988.3	1898.8	2043.5	1963.5	1788.3	1702.6	1639.8	1634.0
60°	18976.2	13512.3	2801.5	1769.3	1790.2	1933.0	1795.9	1723.6	1630.2	1559.8	1556.0
62.5°	21114.9	15491.0	2590.1	1552.1	1662.6	1769.3	1715.9	1643.6	1548.3	1479.8	1479.8
65°	24276.4	18241.1	2192.1	1382.7	1519.8	1609.3	1630.2	1557.9	1458.8	1386.5	1390.3
67.5°	26942.6	19966.5	1658.8	1241.7	1373.1	1479.8	1538.8	1468.4	1363.6	1293.1	1295.0
70°	26796.0	18713.4	1266.5	1102.7	1243.6	1352.2	1428.4	1373.1	1260.8	1194.1	1199.8
72.5°	23800.2	15654.8	1024.6	961.8	1112.2	1218.9	1310.3	1268.4	1154.1	1089.4	1089.4
75°	17485.0	11112.6	818.9	818.9	948.4	1079.8	1180.8	1154.1	1049.4	1003.7	990.3
77.5°	7370.3	4662.2	641.8	679.9	788.5	927.5	1053.2	1062.7	971.3	1028.4	933.2
80°	1959.7	1285.5	489.5	535.2	619.0	765.6	916.1	912.2	813.2	759.9	706.6
82.5°	746.6	506.6	348.5	377.1	447.6	586.6	725.6	748.5	649.4	561.8	561.8
85°	287.6	217.1	215.2	226.6	260.9	388.5	548.5	567.5	489.5	415.2	428.5
87.5°	74.3	64.8	80.0	76.2	120.0	207.6	314.2	325.7	299.0	173.3	247.6
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)