

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: P884977

Luminaire Tested: **NAV-SB6A-750-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884977  
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-SB6A-750-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

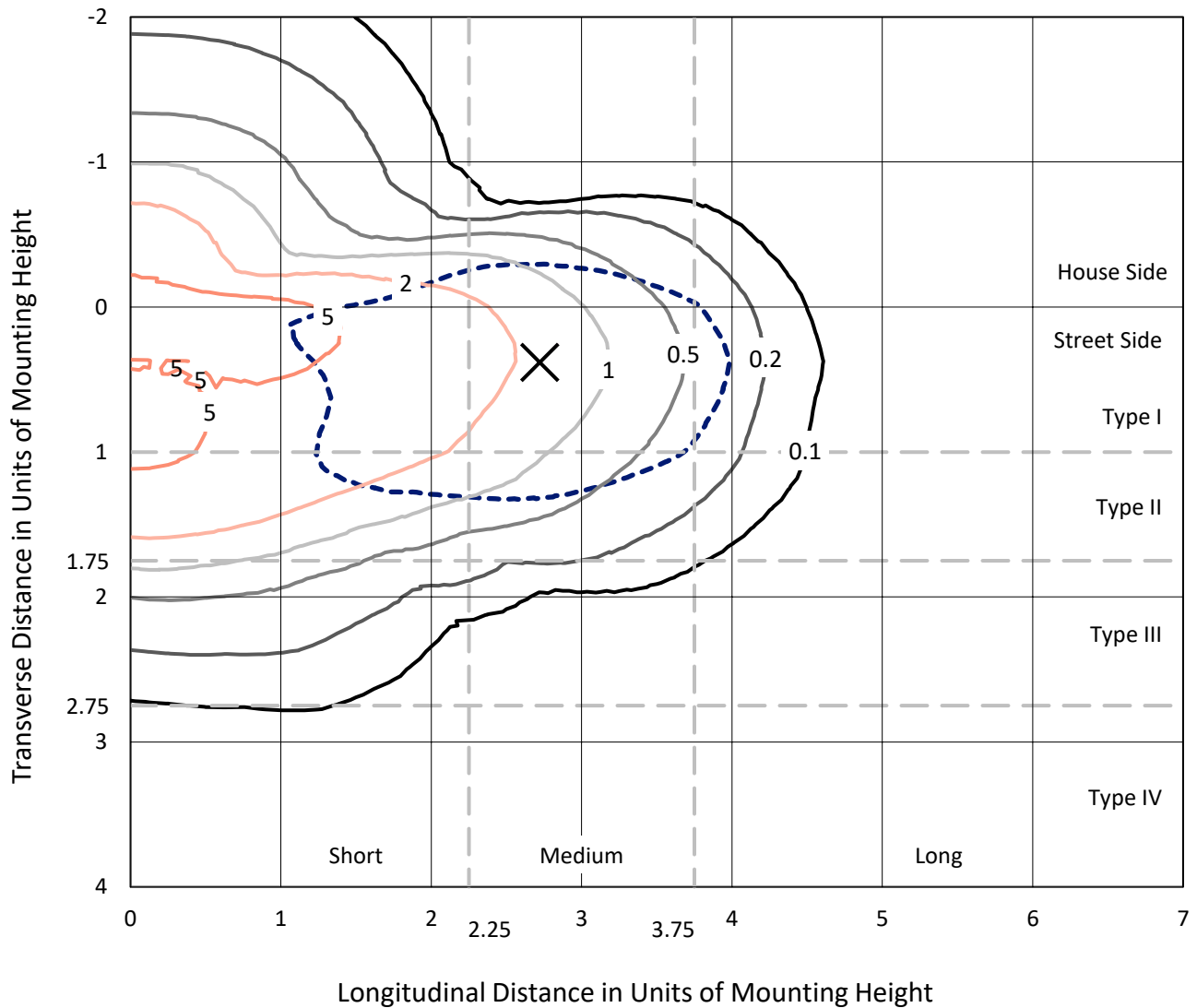
Lumens per Lamp: N/A  
Luminaire Lumens: 29085 lumens  
Efficiency: N/A  
Efficacy: 170.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

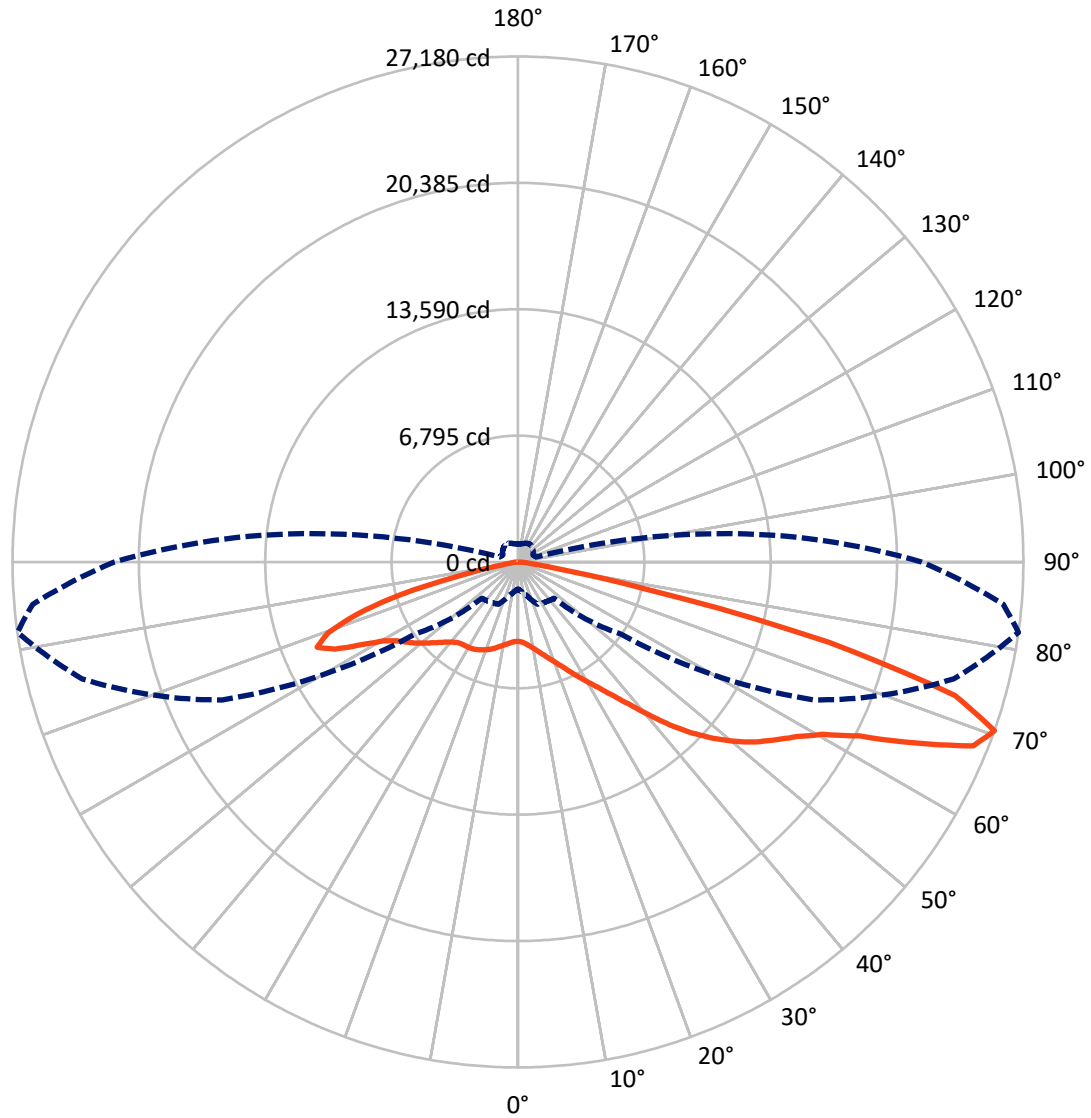
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	7170.2	0.0	7170.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	21914.8	0.0	21914.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	29085.0	0.0	29085.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.6	1.4
10°-20°	1156.7	4.0
20°-30°	1935.1	6.7
30°-40°	3023.2	10.4
40°-50°	4814.7	16.6
50°-60°	6700.3	23.0
60°-70°	7008.8	24.1
70°-80°	3663.2	12.6
80°-90°	380.4	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°	29085.0	100.0
0°-180°	29085.0	100.0

**Coefficient of Utilization**



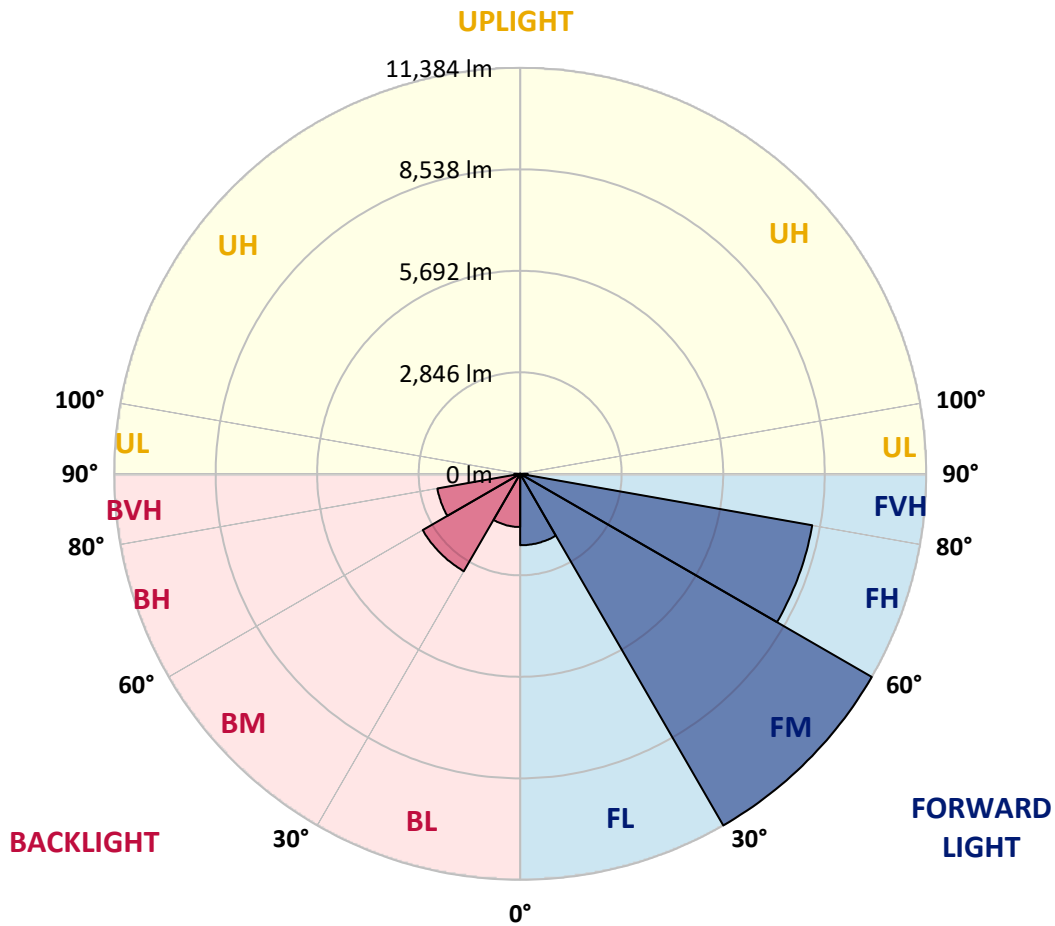
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.8	6.9			
FM (30°-60°)	11383.6	39.1			
FH (60°-80°)	8315.5	28.6			G4/12000
FVH (80°-90°)	212.9	0.7			G2/225
BL (0°-30°)	1491.7	5.1	B3/2500		
BM (30°-60°)	3154.6	10.8	B3/5000		
BH (60°-80°)	2356.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	167.4	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2
2.5°	4366.1	4390.8	4383.1	4375.3	4375.3	4364.5	4363.0	4347.6	4335.2	4315.2	4310.5
5°	4421.6	4447.9	4444.8	4451.0	4471.0	4475.7	4480.3	4471.0	4446.3	4421.6	4410.8
7.5°	4372.3	4401.6	4410.8	4447.9	4509.6	4565.2	4606.8	4623.8	4600.7	4565.2	4548.2
10°	4205.6	4238.0	4270.4	4358.4	4467.9	4599.1	4710.2	4776.6	4772.0	4738.0	4708.7
12.5°	3867.6	3901.5	3971.0	4142.3	4342.9	4574.4	4781.2	4920.1	4968.0	4943.3	4892.4
15°	3597.5	3626.8	3679.3	3855.2	4116.1	4467.9	4807.5	5077.6	5199.5	5185.6	5123.9
17.5°	3589.8	3602.1	3634.5	3717.9	3918.5	4301.3	4779.7	5231.9	5464.9	5463.4	5386.2
20°	3725.6	3730.2	3748.8	3765.7	3879.9	4174.7	4708.7	5360.0	5762.8	5762.8	5679.5
22.5°	3913.9	3910.8	3929.3	3913.9	3969.4	4163.9	4663.9	5472.7	6094.6	6119.3	6014.4
25°	4196.3	4180.9	4176.3	4140.8	4151.6	4264.2	4713.3	5600.7	6488.2	6539.1	6407.9
27.5°	4572.9	4548.2	4531.2	4449.4	4421.6	4471.0	4864.6	5755.1	6926.5	7014.4	6847.8
30°	5063.7	5018.9	4994.2	4852.2	4751.9	4759.6	5093.0	5960.3	7384.8	7526.8	7315.4
32.5°	5733.5	5664.0	5597.7	5364.6	5181.0	5120.8	5387.8	6244.3	7881.8	8108.7	7837.0
35°	6483.5	6428.0	6357.0	5997.4	5715.0	5576.1	5785.9	6641.0	8463.6	8823.2	8469.8
37.5°	7205.8	7158.0	7191.9	6707.3	6343.1	6140.9	6307.6	7173.4	9181.3	9712.2	9263.1
40°	7952.8	7915.7	7920.4	7457.4	7033.0	6806.1	6940.4	7841.7	10003.9	10769.4	10216.9
42.5°	8764.6	8736.8	8644.2	8233.7	7756.8	7545.3	7668.8	8613.3	10886.7	11973.2	11263.2
45°	9673.6	9656.6	9570.2	9099.5	8553.1	8315.5	8482.1	9465.3	11774.1	13106.0	12314.2
47.5°	10459.2	10473.0	10462.2	10065.6	9499.2	9150.4	9349.5	10354.2	12599.8	14170.9	13322.0
50°	10837.3	10909.8	11016.3	10892.8	10541.0	10186.0	10224.6	11212.3	13386.9	15169.4	14288.2
52.5°	10639.7	10777.1	11067.2	11264.8	11400.6	11326.5	11223.1	12064.2	14127.7	16070.7	15201.8
55°	9903.6	10096.5	10578.0	11054.9	11747.8	12286.5	12422.3	13008.7	14849.9	16864.0	16066.1
57.5°	8562.4	8875.7	9307.8	10272.4	11439.2	12751.0	13820.5	14319.0	15615.4	17711.3	16970.5
60°	6262.8	6682.6	7219.7	8655.0	10358.8	12502.5	15010.4	16331.5	16703.5	18808.6	18148.0
62.5°	4008.0	4267.3	4761.2	6113.1	8071.6	11229.3	15374.7	18847.2	18547.8	20608.1	19913.6
65°	2744.0	2910.7	3362.9	4122.2	5218.0	8358.7	14399.3	20733.1	21477.0	23460.2	22932.4
67.5°	1994.0	2120.5	2506.4	3171.5	3400.0	4946.4	11173.7	20646.7	24324.4	26398.7	25577.6
70°	1453.8	1543.3	1867.4	2506.4	2615.9	2751.8	6769.1	17550.8	24262.7	27179.6	26196.5
72.5°	1077.2	1139.0	1356.6	1944.6	2117.5	1858.2	3350.6	12755.6	20848.9	24583.7	23795.1
75°	779.4	825.7	986.2	1487.8	1694.6	1415.2	1671.4	7454.3	14542.8	17293.0	17431.9
77.5°	595.7	631.2	736.2	1089.6	1356.6	1061.8	1037.1	3429.3	6895.6	6929.6	7318.5
80°	478.4	501.6	558.7	767.0	1040.2	794.8	676.0	1384.4	2179.2	1844.3	1935.3
82.5°	351.9	390.5	472.3	538.6	743.9	547.9	412.1	699.1	828.8	713.0	719.2
85°	200.6	226.9	285.5	385.8	475.3	334.9	236.1	310.2	385.8	316.4	282.4
87.5°	71.0	92.6	100.3	151.2	206.8	138.9	91.1	89.5	126.6	94.1	78.7
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°	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2	4264.2
2.5°	4295.1	4287.4	4256.5	4214.8	4171.6	4130.0	4116.1	4086.7	4066.7	4055.9	4068.2
5°	4381.5	4356.8	4284.3	4191.7	4094.5	3989.5	3915.4	3847.5	3798.1	3751.8	3770.4
7.5°	4505.0	4461.8	4336.8	4174.7	4001.9	3827.5	3697.8	3599.0	3532.7	3489.5	3498.7
10°	4648.5	4582.2	4390.8	4148.5	3881.5	3631.5	3478.7	3393.8	3352.1	3329.0	3335.1
12.5°	4813.7	4719.5	4446.3	4088.3	3697.8	3412.3	3307.4	3282.7	3284.2	3285.8	3288.8
15°	5017.4	4886.2	4491.1	3957.1	3458.6	3244.1	3225.6	3265.7	3307.4	3327.4	3325.9
17.5°	5247.3	5062.1	4498.8	3741.0	3224.0	3136.0	3194.7	3281.1	3344.4	3372.2	3378.4
20°	5494.3	5241.2	4443.3	3435.5	3031.1	3048.1	3153.0	3264.1	3333.6	3369.1	3378.4
22.5°	5776.7	5432.5	4310.5	3114.4	2873.7	2952.4	3075.9	3183.9	3256.4	3291.9	3301.2
25°	6099.2	5647.0	4102.2	2844.4	2737.9	2844.4	2967.8	3057.3	3116.0	3148.4	3157.7
27.5°	6457.3	5870.8	3824.4	2629.8	2619.0	2733.2	2835.1	2904.5	2935.4	2960.1	2969.4
30°	6816.9	6074.6	3487.9	2467.8	2515.6	2623.7	2696.2	2727.1	2736.3	2741.0	2751.8
32.5°	7205.8	6250.5	3134.5	2333.5	2416.9	2517.2	2560.4	2574.3	2531.1	2501.7	2511.0
35°	7676.5	6438.8	2788.8	2227.0	2319.6	2406.1	2419.9	2407.6	2356.7	2296.5	2299.6
37.5°	8258.4	6673.4	2512.5	2151.4	2228.6	2285.7	2268.7	2265.6	2270.2	2199.2	2203.9
40°	8971.4	6978.9	2310.4	2092.8	2154.5	2166.8	2119.0	2145.2	2168.4	2060.3	2063.4
42.5°	9763.1	7347.8	2182.3	2052.6	2092.8	2063.4	1989.4	2018.7	2015.6	1873.6	1872.1
45°	10570.3	7749.1	2137.5	2023.3	2035.7	1977.0	1895.2	1902.9	1838.1	1710.0	1714.6
47.5°	11372.8	8179.7	2165.3	1998.6	1964.7	1898.3	1835.0	1801.1	1705.4	1609.7	1609.7
50°	12159.9	8631.9	2267.2	1949.2	1867.4	1828.8	1782.5	1722.4	1620.5	1538.7	1532.5
52.5°	12889.9	9087.1	2381.4	1867.4	1745.5	1768.7	1739.3	1669.9	1569.6	1486.2	1487.8
55°	13581.3	9542.4	2426.1	1754.8	1631.3	1716.2	1699.2	1571.1	1450.7	1382.8	1376.7
57.5°	14334.5	10090.3	2376.7	1611.2	1538.7	1656.0	1591.2	1449.2	1379.7	1328.8	1324.2
60°	15377.8	10949.9	2270.2	1433.8	1450.7	1566.5	1455.4	1396.7	1321.1	1264.0	1260.9
62.5°	17110.9	12553.5	2098.9	1257.8	1347.3	1433.8	1390.5	1331.9	1254.7	1199.2	1199.2
65°	19672.8	14782.0	1776.4	1120.5	1231.6	1304.1	1321.1	1262.4	1182.2	1123.5	1126.6
67.5°	21833.5	16180.3	1344.2	1006.3	1112.7	1199.2	1247.0	1189.9	1105.0	1047.9	1049.5
70°	21714.7	15164.8	1026.3	893.6	1007.8	1095.8	1157.5	1112.7	1021.7	967.7	972.3
72.5°	19287.0	12686.2	830.3	779.4	901.3	987.7	1061.8	1027.9	935.3	882.8	882.8
75°	14169.3	9005.3	663.6	663.6	768.6	875.1	956.9	935.3	850.4	813.3	802.5
77.5°	5972.7	3778.1	520.1	551.0	638.9	751.6	853.5	861.2	787.1	833.4	756.2
80°	1588.1	1041.7	396.6	433.7	501.6	620.4	742.3	739.3	659.0	615.8	572.6
82.5°	605.0	410.5	282.4	305.6	362.7	475.3	588.0	606.5	526.3	455.3	455.3
85°	233.0	175.9	174.4	183.7	211.4	314.8	444.5	459.9	396.6	336.4	347.2
87.5°	60.2	52.5	64.8	61.7	97.2	168.2	254.6	263.9	242.3	140.4	200.6
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)