

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: P885107

Luminaire Tested: **NAV-SB6B-727-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885107  
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-SB6B-727-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

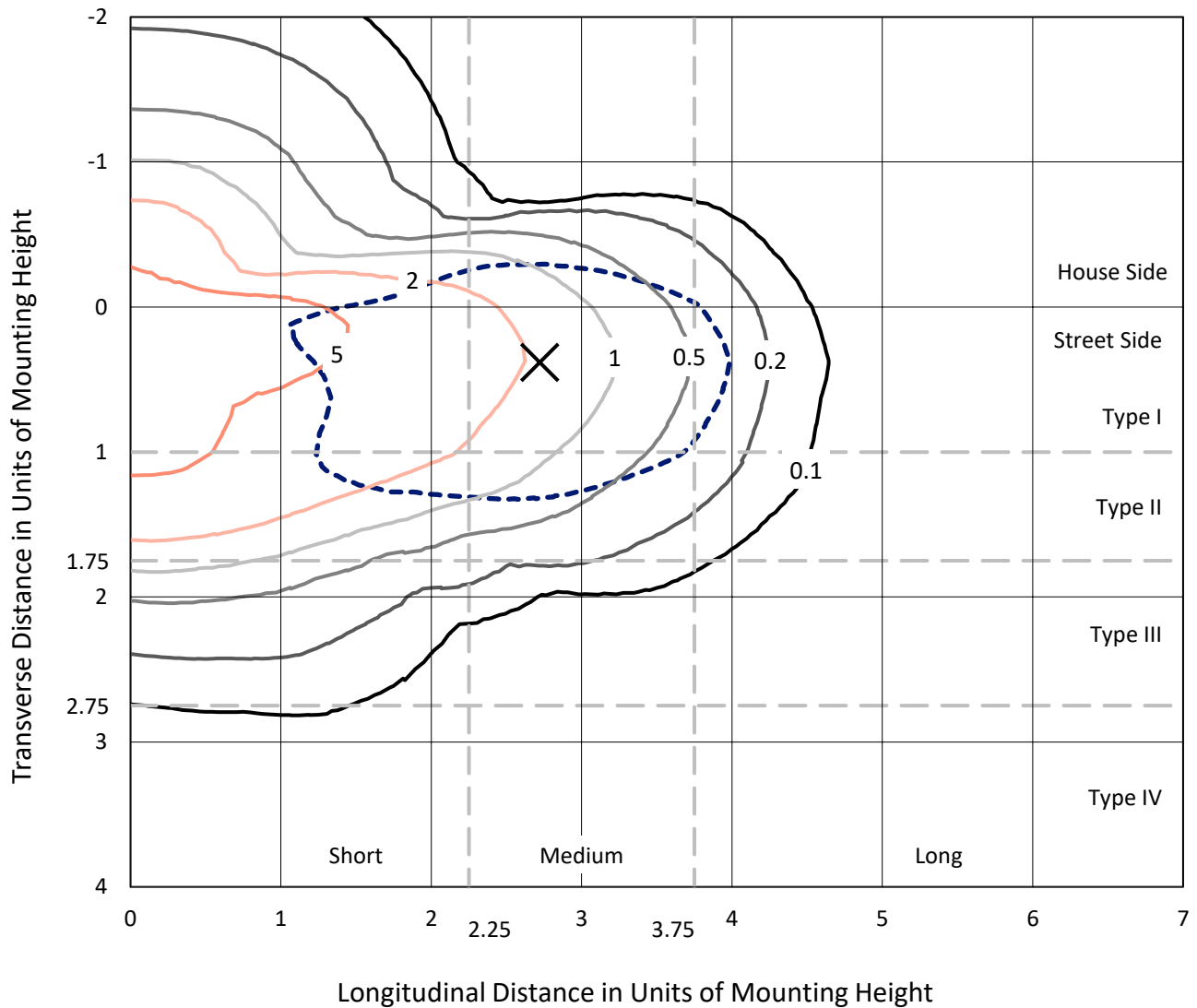
Lumens per Lamp: N/A  
Luminaire Lumens: 30691 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
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

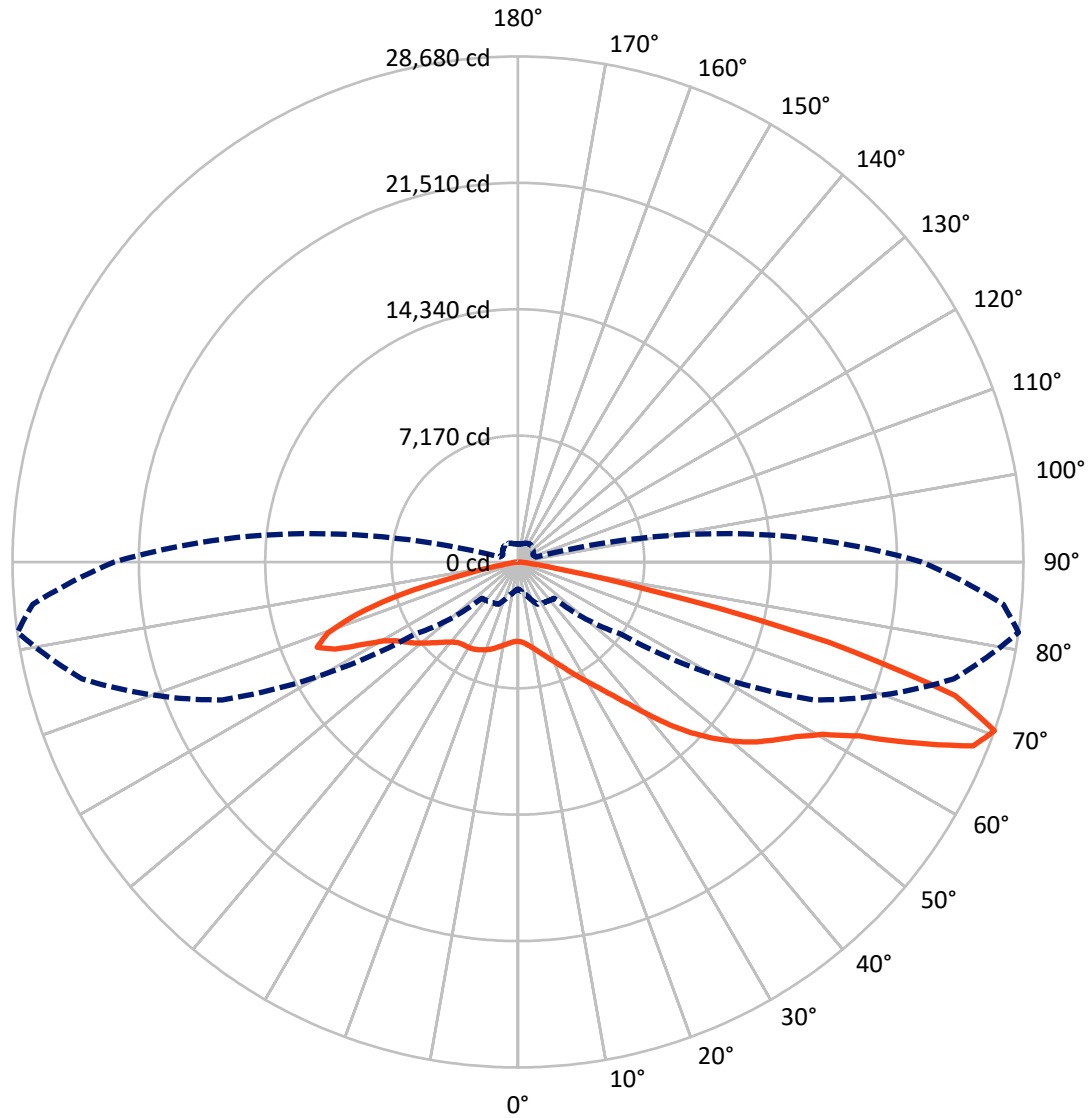
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	7566.1	0.0	7566.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	23124.9	0.0	23124.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	30691.0	0.0	30691.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.8	1.4
10°-20°	1220.6	4.0
20°-30°	2042.0	6.7
30°-40°	3190.1	10.4
40°-50°	5080.6	16.6
50°-60°	7070.3	23.0
60°-70°	7395.8	24.1
70°-80°	3865.4	12.6
80°-90°	401.4	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°	30691.0	100.0
0°-180°	30691.0	100.0

**Coefficient of Utilization**



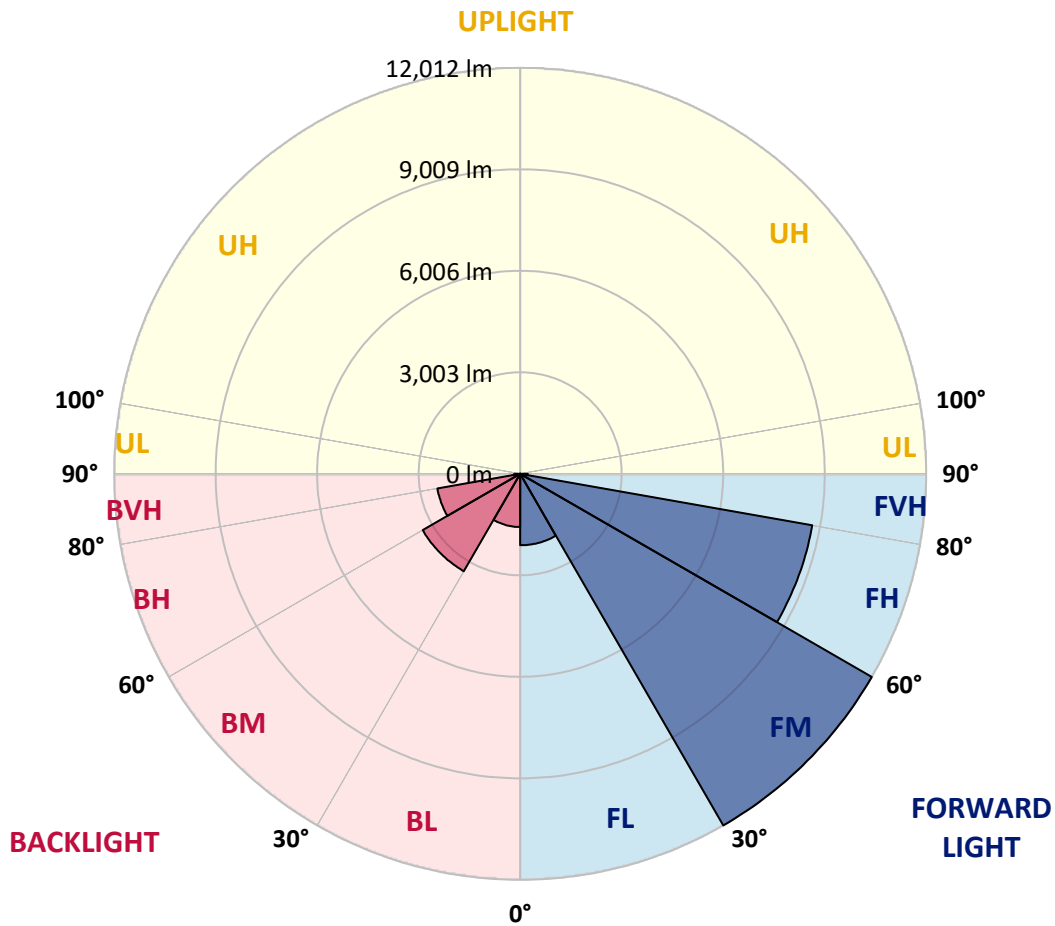
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.4	6.9			
FM (30°-60°)	12012.1	39.1			
FH (60°-80°)	8774.7	28.6			G4/12000
FVH (80°-90°)	224.7	0.7			G2/225
BL (0°-30°)	1574.0	5.1	B3/2500		
BM (30°-60°)	3328.8	10.8	B3/5000		
BH (60°-80°)	2486.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	176.7	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°	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7
2.5°	4607.2	4633.2	4625.1	4616.9	4616.9	4605.5	4603.9	4587.6	4574.6	4553.4	4548.5
5°	4665.8	4693.5	4690.2	4696.7	4717.9	4722.8	4727.7	4717.9	4691.9	4665.8	4654.4
7.5°	4613.7	4644.6	4654.4	4693.5	4758.6	4817.3	4861.2	4879.1	4854.7	4817.3	4799.3
10°	4437.8	4472.0	4506.2	4599.0	4714.7	4853.1	4970.3	5040.4	5035.5	4999.6	4968.7
12.5°	4081.1	4117.0	4190.3	4371.0	4582.7	4827.0	5045.2	5191.8	5242.3	5216.2	5162.5
15°	3796.2	3827.1	3882.5	4068.1	4343.3	4714.7	5072.9	5357.9	5486.6	5471.9	5406.8
17.5°	3788.0	3801.0	3835.2	3923.2	4134.9	4538.8	5043.6	5520.8	5766.7	5765.1	5683.6
20°	3931.3	3936.2	3955.7	3973.7	4094.2	4405.2	4968.7	5656.0	6081.0	6081.0	5993.1
22.5°	4130.0	4126.7	4146.3	4130.0	4188.6	4393.8	4921.5	5774.8	6431.1	6457.2	6346.5
25°	4428.0	4411.7	4406.9	4369.4	4380.8	4499.7	4973.6	5910.0	6846.4	6900.2	6761.7
27.5°	4825.4	4799.3	4781.4	4695.1	4665.8	4717.9	5133.2	6072.9	7308.9	7401.8	7225.9
30°	5343.3	5296.0	5270.0	5120.2	5014.3	5022.4	5374.2	6289.5	7792.6	7942.4	7719.3
32.5°	6050.1	5976.8	5906.8	5660.8	5467.0	5403.5	5685.3	6589.1	8317.0	8556.4	8269.8
35°	6841.5	6782.9	6708.0	6328.5	6030.5	5884.0	6105.4	7007.7	8931.0	9310.4	8937.5
37.5°	7603.7	7553.2	7589.0	7077.7	6693.3	6480.0	6655.9	7569.5	9688.2	10248.5	9774.6
40°	8391.9	8352.8	8357.7	7869.2	7421.3	7181.9	7323.6	8274.7	10556.3	11364.0	10781.0
42.5°	9248.5	9219.2	9121.5	8688.3	8185.1	7962.0	8092.3	9088.9	11487.8	12634.3	11885.2
45°	10207.8	10189.8	10098.6	9601.9	9025.4	8774.6	8950.5	9987.9	12424.2	13829.6	12994.2
47.5°	11036.7	11051.3	11039.9	10621.4	10023.7	9655.7	9865.8	10925.9	13295.5	14953.3	14057.6
50°	11435.7	11512.2	11624.6	11494.3	11123.0	10748.4	10789.1	11831.4	14126.0	16007.0	15077.1
52.5°	11227.2	11372.2	11678.3	11886.8	12030.1	11951.9	11842.8	12730.4	14907.7	16958.1	16041.2
55°	10450.4	10654.0	11162.1	11665.3	12396.5	12964.9	13108.2	13727.1	15669.9	17795.2	16953.2
57.5°	9035.2	9365.8	9821.8	10839.6	12070.8	13455.1	14583.7	15109.7	16477.7	18689.2	17907.5
60°	6608.7	7051.6	7618.4	9132.9	10930.8	13192.9	15839.3	17233.3	17625.8	19847.1	19150.1
62.5°	4229.3	4502.9	5024.1	6450.7	8517.3	11849.3	16223.6	19887.9	19571.9	21746.0	21013.2
65°	2895.6	3071.4	3548.6	4349.9	5506.1	8820.2	15194.4	21877.9	22662.9	24755.6	24198.6
67.5°	2104.1	2237.6	2644.8	3346.7	3587.7	5219.5	11790.7	21786.7	25667.6	27856.4	26990.0
70°	1534.1	1628.6	1970.5	2644.8	2760.4	2903.7	7142.8	18519.9	25602.4	28680.4	27643.0
72.5°	1136.7	1201.9	1431.5	2052.0	2234.4	1960.8	3535.6	13460.0	22000.1	25941.2	25109.0
75°	822.4	871.3	1040.6	1569.9	1788.1	1493.4	1763.7	7865.9	15345.8	18247.9	18394.5
77.5°	628.6	666.1	776.8	1149.8	1431.5	1120.4	1094.4	3618.6	7276.4	7312.2	7722.6
80°	504.9	529.3	589.5	809.4	1097.6	838.7	713.3	1460.8	2299.5	1946.1	2042.2
82.5°	371.3	412.0	498.3	568.4	785.0	578.1	434.8	737.7	874.5	752.4	758.9
85°	211.7	239.4	301.3	407.1	501.6	353.4	249.2	327.3	407.1	333.9	298.0
87.5°	74.9	97.7	105.9	159.6	218.2	146.6	96.1	94.5	133.5	99.3	83.1
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°	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7	4499.7
2.5°	4532.3	4524.1	4491.5	4447.6	4402.0	4358.0	4343.3	4312.4	4291.2	4279.8	4292.9
5°	4623.5	4597.4	4520.9	4423.1	4320.5	4209.8	4131.6	4060.0	4007.9	3959.0	3978.5
7.5°	4753.7	4708.1	4576.2	4405.2	4222.8	4038.8	3902.0	3797.8	3727.8	3682.2	3691.9
10°	4905.2	4835.2	4633.2	4377.5	4095.8	3832.0	3670.8	3581.2	3537.2	3512.8	3519.3
12.5°	5079.4	4980.1	4691.9	4314.0	3902.0	3600.7	3490.0	3463.9	3465.6	3467.2	3470.4
15°	5294.4	5156.0	4739.1	4175.6	3649.6	3423.2	3403.7	3446.0	3490.0	3511.2	3509.5
17.5°	5537.1	5341.6	4747.2	3947.6	3402.0	3309.2	3371.1	3462.3	3529.1	3558.4	3564.9
20°	5797.6	5530.6	4688.6	3625.2	3198.5	3216.4	3327.1	3444.4	3517.7	3555.1	3564.9
22.5°	6095.7	5732.5	4548.5	3286.4	3032.4	3115.4	3245.7	3359.7	3436.2	3473.7	3483.5
25°	6436.0	5958.9	4328.7	3001.4	2889.0	3001.4	3131.7	3226.2	3288.0	3322.2	3332.0
27.5°	6813.9	6195.0	4035.5	2775.0	2763.6	2884.2	2991.6	3064.9	3097.5	3123.6	3133.3
30°	7193.3	6410.0	3680.5	2604.1	2654.5	2768.5	2845.1	2877.6	2887.4	2892.3	2903.7
32.5°	7603.7	6595.6	3307.6	2462.4	2550.3	2656.2	2701.8	2716.4	2670.8	2639.9	2649.7
35°	8100.4	6794.3	2942.8	2350.0	2447.7	2538.9	2553.6	2540.5	2486.8	2423.3	2426.5
37.5°	8714.4	7041.9	2651.3	2270.2	2351.6	2411.9	2394.0	2390.7	2395.6	2320.7	2325.6
40°	9466.8	7364.3	2437.9	2208.3	2273.5	2286.5	2236.0	2263.7	2288.1	2174.1	2177.4
42.5°	10302.2	7753.5	2302.8	2166.0	2208.3	2177.4	2099.2	2130.1	2126.9	1977.1	1975.4
45°	11153.9	8177.0	2255.5	2135.0	2148.1	2086.2	1999.9	2008.0	1939.6	1804.4	1809.3
47.5°	12000.8	8631.3	2284.9	2109.0	2073.1	2003.1	1936.3	1900.5	1799.5	1698.6	1698.6
50°	12831.3	9108.5	2392.3	2056.9	1970.5	1929.8	1881.0	1817.5	1710.0	1623.7	1617.2
52.5°	13601.7	9588.9	2512.9	1970.5	1841.9	1866.3	1835.4	1762.1	1656.2	1568.3	1569.9
55°	14331.2	10069.3	2560.1	1851.7	1721.4	1810.9	1793.0	1657.9	1530.8	1459.2	1452.7
57.5°	15126.0	10647.5	2508.0	1700.2	1623.7	1747.4	1679.0	1529.2	1455.9	1402.2	1397.3
60°	16226.9	11554.6	2395.6	1512.9	1530.8	1653.0	1535.7	1473.8	1394.0	1333.8	1330.5
62.5°	18055.7	13246.6	2214.8	1327.3	1421.7	1512.9	1467.3	1405.4	1324.0	1265.4	1265.4
65°	20759.1	15598.3	1874.5	1182.3	1299.6	1376.1	1394.0	1332.2	1247.5	1185.6	1188.8
67.5°	23039.1	17073.7	1418.5	1061.8	1174.2	1265.4	1315.9	1255.6	1166.0	1105.8	1107.4
70°	22913.7	16002.1	1083.0	942.9	1063.4	1156.3	1221.4	1174.2	1078.1	1021.1	1026.0
72.5°	20352.0	13386.7	876.2	822.4	951.1	1042.3	1120.4	1084.6	986.9	931.5	931.5
75°	14951.7	9502.6	700.3	700.3	811.0	923.4	1009.7	986.9	897.3	858.2	846.8
77.5°	6302.5	3986.7	548.8	581.4	674.2	793.1	900.6	908.7	830.6	879.4	798.0
80°	1675.8	1099.3	418.5	457.6	529.3	654.7	783.3	780.1	695.4	649.8	604.2
82.5°	638.4	433.2	298.0	322.5	382.7	501.6	620.5	640.0	555.3	480.4	480.4
85°	245.9	185.7	184.0	193.8	223.1	332.2	469.0	485.3	418.5	355.0	366.4
87.5°	63.5	55.4	68.4	65.1	102.6	177.5	268.7	278.5	255.7	148.2	211.7
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)