

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: P885528

Luminaire Tested: **NAV-SB6D-835-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-835-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

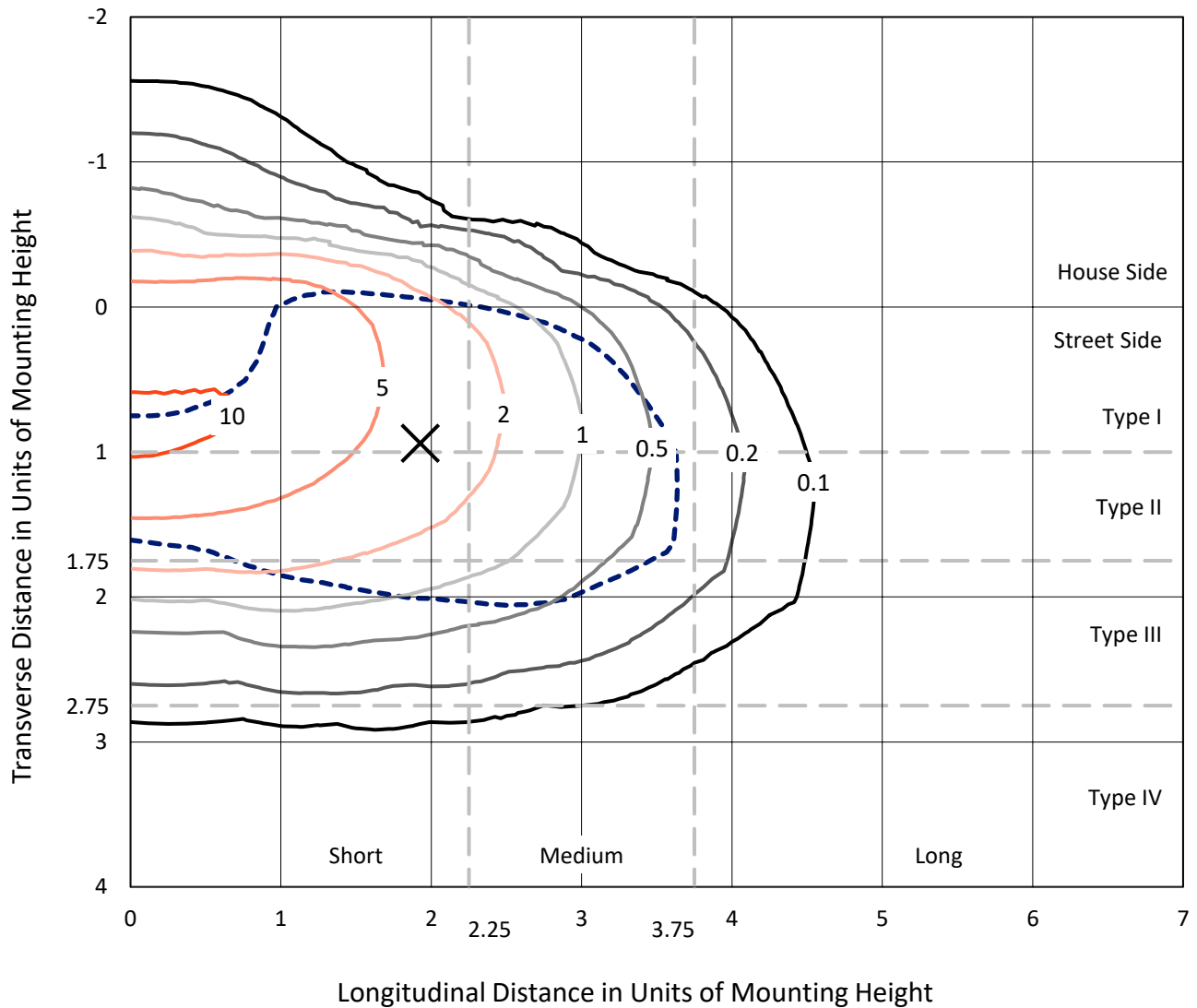
Lumens per Lamp: N/A  
Luminaire Lumens: 40872 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

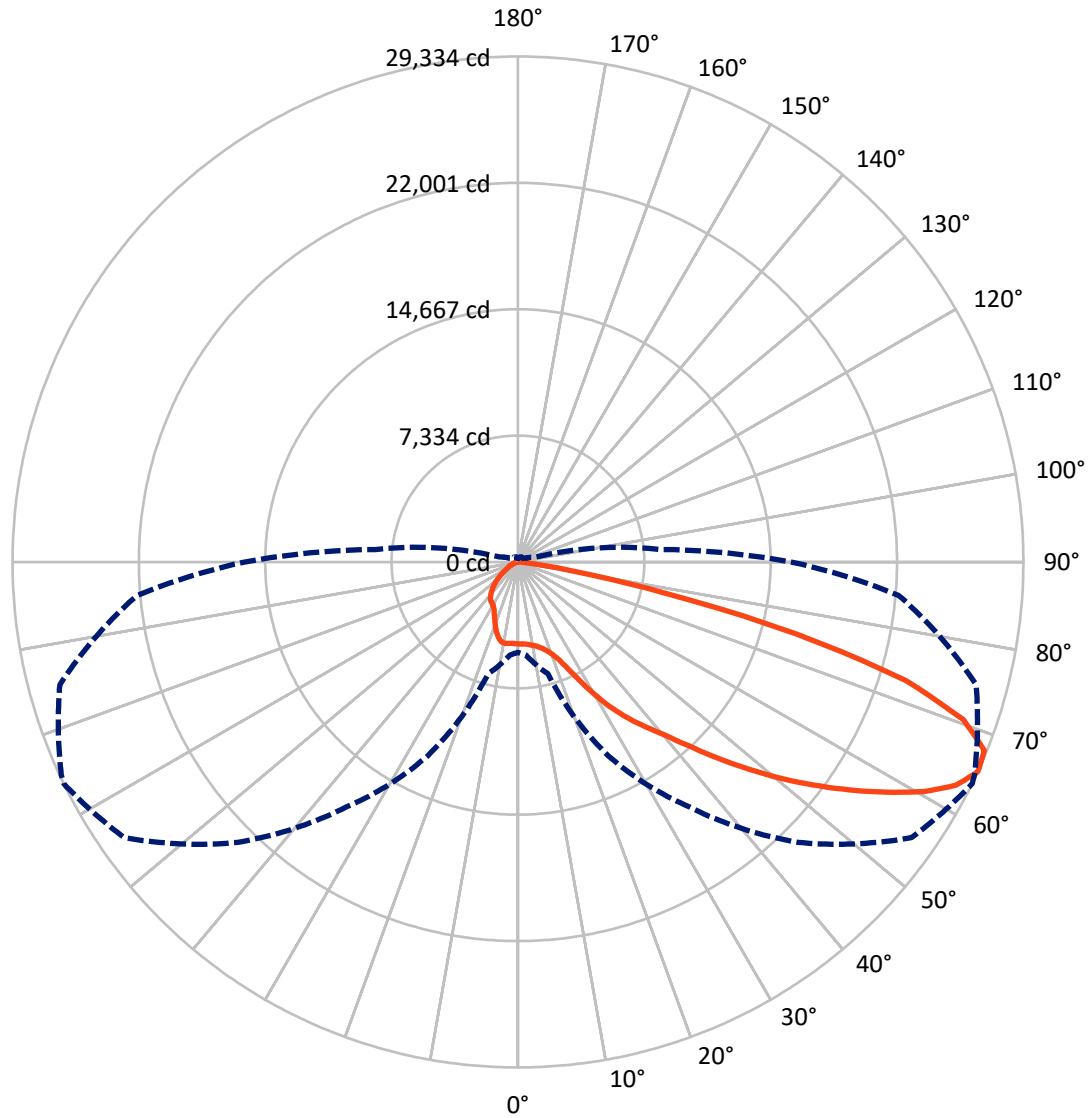
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5465.8	0.0	5465.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	35406.2	0.0	35406.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	40872.0	0.0	40872.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.6	1.1
10°-20°	1189.6	2.9
20°-30°	2254.1	5.5
30°-40°	4561.3	11.2
40°-50°	7770.3	19.0
50°-60°	10567.0	25.9
60°-70°	9922.9	24.3
70°-80°	3975.6	9.7
80°-90°	192.6	0.5
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°	40872.0	100.0
0°-180°	40872.0	100.0

**Coefficient of Utilization**



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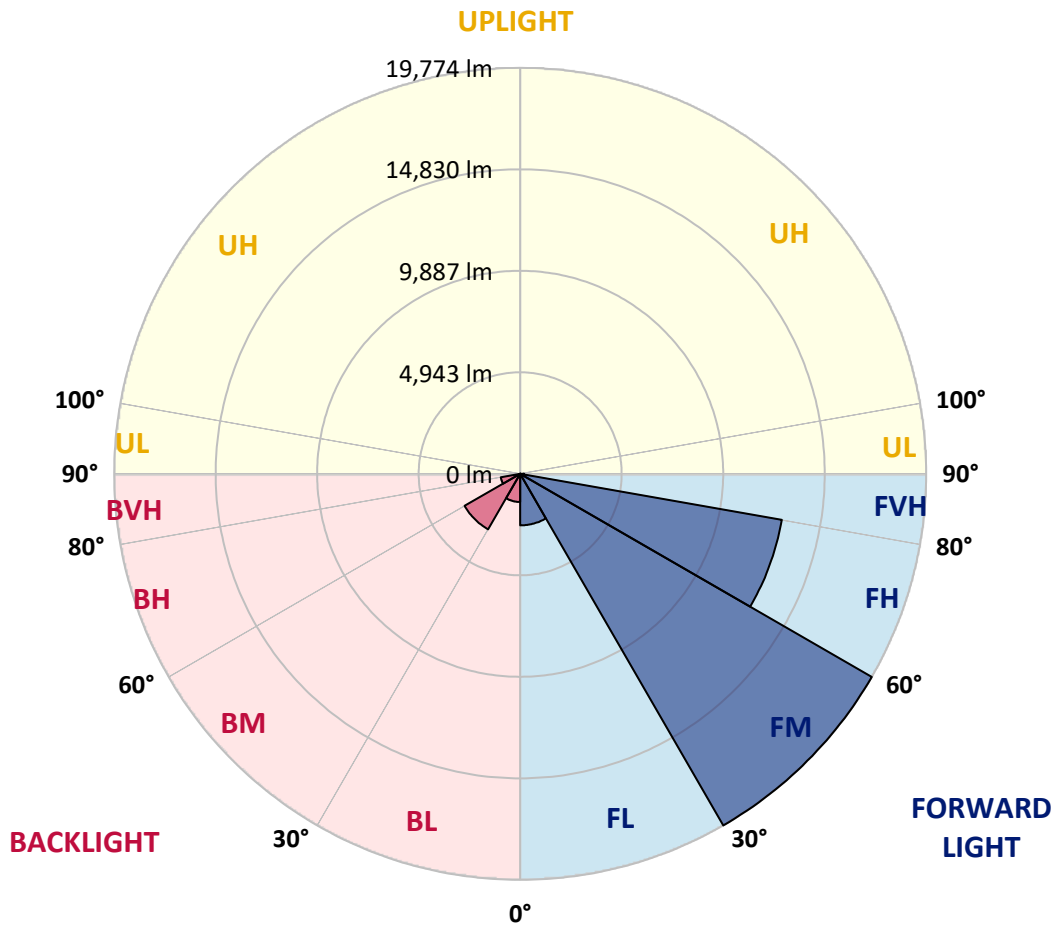
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2510.0	6.1			
FM (30°-60°)	19773.8	48.4			
FH (60°-80°)	12939.1	31.7			G5
FVH (80°-90°)	183.2	0.4			G2/225
BL (0°-30°)	1372.3	3.4	B3/2500		
BM (30°-60°)	3124.8	7.6	B3/5000		
BH (60°-80°)	959.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8
2.5°	4737.4	4770.3	4762.1	4753.8	4751.1	4756.6	4759.3	4756.6	4756.6	4756.6	4759.3
5°	4647.0	4674.4	4674.4	4693.6	4721.0	4753.8	4778.5	4784.0	4789.5	4797.7	4794.9
7.5°	4474.4	4496.3	4512.7	4575.7	4644.2	4731.9	4805.9	4844.3	4849.7	4879.9	4890.8
10°	4356.5	4383.9	4411.3	4477.1	4575.7	4707.3	4833.3	4926.5	4940.2	5011.4	5044.3
12.5°	4351.1	4378.5	4414.1	4485.3	4600.4	4740.1	4893.6	5027.8	5052.5	5156.6	5225.1
15°	4408.6	4441.5	4474.4	4562.0	4685.3	4855.2	5019.6	5186.8	5211.4	5359.4	5433.3
17.5°	4526.4	4570.3	4594.9	4682.6	4814.1	5003.2	5219.6	5411.4	5433.3	5606.0	5699.1
20°	4759.3	4811.4	4819.6	4890.8	5019.6	5222.4	5479.9	5718.3	5745.7	5943.0	6047.1
22.5°	5241.6	5315.5	5249.8	5285.4	5400.5	5603.2	5882.7	6184.1	6222.5	6447.1	6540.3
25°	6090.9	6195.1	6025.2	5964.9	6014.2	6225.2	6575.9	6956.8	7000.6	7181.4	7228.0
27.5°	7759.6	7625.3	7367.8	7115.7	6967.7	7088.3	7482.8	7954.1	8008.9	8184.3	8129.5
30°	9592.6	9474.8	9126.8	8567.9	8217.2	8198.0	8562.4	9088.5	9151.5	9318.6	9151.5
32.5°	11428.4	11316.1	10937.9	10250.2	9641.9	9340.5	9592.6	10176.2	10209.1	10316.0	10069.4
35°	13234.0	13118.9	12740.8	12036.7	11288.7	10603.7	10554.3	11211.9	11222.9	11335.2	10968.1
37.5°	15050.6	14954.7	14552.0	13861.5	13124.4	12179.1	11721.6	12192.8	12206.5	12316.1	11935.3
40°	16346.6	16387.7	16111.0	15576.7	14943.8	13910.8	13031.3	13236.8	13154.6	13338.1	13110.7
42.5°	17459.1	17541.3	17300.1	17031.6	16664.5	15754.8	14653.3	14617.7	14486.2	14584.8	14349.2
45°	18420.8	18489.3	18272.8	18209.8	18201.6	17563.2	16426.1	16212.4	16028.8	16009.6	15727.4
47.5°	18774.2	18905.8	18998.9	19209.9	19620.9	19352.4	18259.1	17927.6	17722.1	17571.4	17124.8
50°	18908.5	19048.2	19366.1	19979.8	20952.5	21067.6	20083.9	19711.3	19459.2	19185.2	18527.6
52.5°	18727.7	18977.0	19404.4	20437.4	21848.5	22443.0	21834.8	21508.7	21221.0	20774.4	19799.0
55°	17661.8	17911.1	18785.2	20431.9	22295.1	23407.5	23489.7	23344.5	23021.2	22317.0	20826.5
57.5°	15415.0	15784.9	17168.6	19736.0	22286.9	24237.7	25111.8	25215.9	24854.2	23845.9	21634.8
60°	12302.4	12803.9	14491.7	18193.4	21599.1	24687.1	26533.8	27054.4	26670.8	25352.9	22289.6
62.5°	8584.3	9165.2	10762.6	15776.7	20026.4	24363.8	27572.3	28534.0	28243.6	26701.0	22541.7
65°	5236.1	5422.4	6710.2	12414.8	17352.2	23010.2	27892.8	29334.1	29238.2	27525.7	22169.1
67.5°	3488.0	3644.2	4014.0	8513.1	13469.7	20305.9	27125.6	29194.3	29221.7	27391.4	20804.5
70°	2101.6	2235.8	2476.9	4951.1	8729.5	16072.6	24750.1	27413.3	27572.3	25596.7	18218.0
72.5°	865.8	956.2	1175.4	2244.0	4520.9	10200.9	19708.6	23536.3	23906.2	21522.4	13982.0
75°	490.5	537.0	690.5	1126.1	1961.8	4753.8	11938.0	16708.3	17253.6	14834.2	8411.7
77.5°	326.1	348.0	446.6	728.8	1104.2	1622.1	5101.8	8704.9	9746.1	8102.1	3641.4
80°	219.2	238.4	306.9	487.7	717.9	696.0	1624.8	3224.9	3967.5	2783.8	887.7
82.5°	148.0	150.7	219.2	320.6	454.8	337.0	479.5	1002.8	1260.4	805.5	337.0
85°	84.9	82.2	161.7	186.3	202.8	139.7	145.2	301.4	394.6	339.8	191.8
87.5°	11.0	16.4	63.0	49.3	27.4	30.1	30.1	52.1	76.7	82.2	41.1
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°	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8	4753.8
2.5°	4759.3	4756.6	4748.4	4740.1	4721.0	4710.0	4715.5	4710.0	4707.3	4710.0	4721.0
5°	4794.9	4786.7	4764.8	4737.4	4699.0	4652.5	4622.3	4578.5	4537.4	4512.7	4518.2
7.5°	4890.8	4882.6	4852.5	4775.8	4652.5	4457.9	4279.8	4123.6	4005.8	3937.3	3940.1
10°	5044.3	5030.6	4984.0	4814.1	4490.8	4066.1	3712.7	3419.5	3227.7	3137.3	3129.0
12.5°	5225.1	5208.7	5126.5	4778.5	4183.9	3520.9	3033.1	2707.1	2529.0	2449.5	2441.3
15°	5438.8	5416.9	5255.3	4608.6	3737.3	2918.1	2471.4	2227.6	2112.5	2041.3	2044.0
17.5°	5704.6	5666.2	5351.2	4353.8	3252.3	2457.7	2126.2	1942.6	1841.3	1772.8	1767.3
20°	6049.8	5986.8	5427.9	4049.7	2805.7	2167.3	1893.3	1739.9	1663.2	1602.9	1591.9
22.5°	6532.1	6441.7	5521.0	3720.9	2490.6	1967.3	1720.7	1608.4	1545.3	1476.8	1465.9
25°	7129.4	7022.5	5636.1	3416.7	2274.2	1794.7	1594.7	1501.5	1427.5	1348.1	1339.8
27.5°	7965.1	7773.3	5773.1	3167.4	2087.9	1646.7	1479.6	1375.5	1290.5	1224.8	1211.1
30°	8896.7	8581.6	5893.7	3016.7	1918.0	1509.7	1328.9	1224.8	1145.3	1098.7	1090.5
32.5°	9778.9	9351.5	5973.1	2950.9	1764.5	1353.5	1164.5	1052.1	991.9	978.2	986.4
35°	10611.9	10047.4	5964.9	2887.9	1627.5	1197.4	1002.8	887.7	841.2	849.4	849.4
37.5°	11570.9	10790.0	5907.4	2789.3	1515.2	1054.9	863.1	761.7	720.6	723.4	734.3
40°	12686.0	11647.6	5871.7	2603.0	1391.9	923.4	748.0	665.8	635.7	624.7	622.0
42.5°	13875.2	12477.8	5877.2	2392.0	1238.5	805.5	668.6	600.1	572.7	564.4	561.7
45°	15069.8	13269.6	5885.4	2172.8	1076.8	715.1	611.0	553.5	537.0	526.1	526.1
47.5°	16193.2	13943.7	5732.0	1937.2	917.9	646.6	564.4	526.1	512.4	498.7	498.7
50°	17239.9	14393.0	5362.1	1663.2	791.8	591.8	528.8	501.4	487.7	474.0	474.0
52.5°	18053.6	14464.3	4751.1	1380.9	704.2	550.7	506.9	482.2	465.8	452.1	449.4
55°	18415.3	14017.7	3882.5	1117.9	635.7	515.1	485.0	460.3	441.1	427.4	424.7
57.5°	18322.1	13077.8	3027.7	898.7	569.9	479.5	457.6	441.1	419.2	397.3	394.6
60°	17864.6	11820.2	2282.4	748.0	509.6	441.1	427.4	413.7	383.6	350.7	345.2
62.5°	17072.7	10239.2	1627.5	619.2	443.9	397.3	391.8	380.9	337.0	276.7	271.3
65°	15861.7	8318.5	1096.0	515.1	380.9	348.0	350.7	331.5	274.0	205.5	200.0
67.5°	14091.6	6082.7	701.4	422.0	317.8	290.4	293.2	282.2	232.9	175.4	167.1
70°	11836.6	4027.7	457.6	320.6	254.8	224.7	241.1	243.9	197.3	142.5	137.0
72.5°	8677.5	2378.3	320.6	238.4	186.3	156.2	197.3	202.8	158.9	106.9	101.4
75°	4945.6	1128.9	241.1	172.6	115.1	109.6	153.4	153.4	109.6	71.2	65.8
77.5°	2076.9	471.3	169.9	112.3	65.8	63.0	104.1	95.9	54.8	32.9	32.9
80°	600.1	211.0	90.4	54.8	27.4	24.7	41.1	30.1	13.7	5.5	5.5
82.5°	235.6	93.2	35.6	21.9	11.0	11.0	5.5	0.0	0.0	0.0	0.0
85°	139.7	38.4	16.4	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.6	8.2	5.5	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)