

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: P970894

Luminaire Tested: **NAV-SB6C-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35575.7 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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

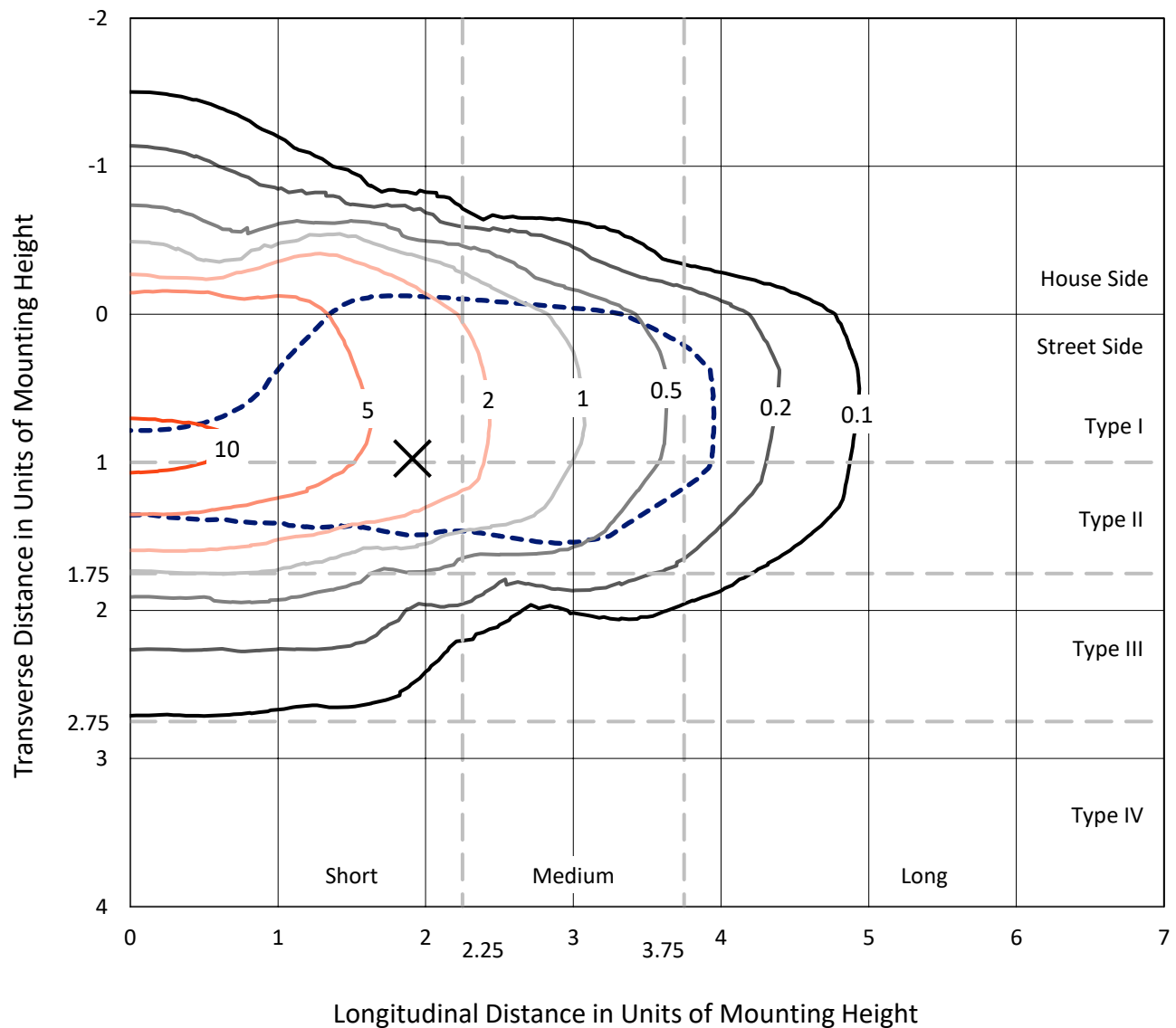


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Iso-Footcandle Lines of Horizontal Illumination

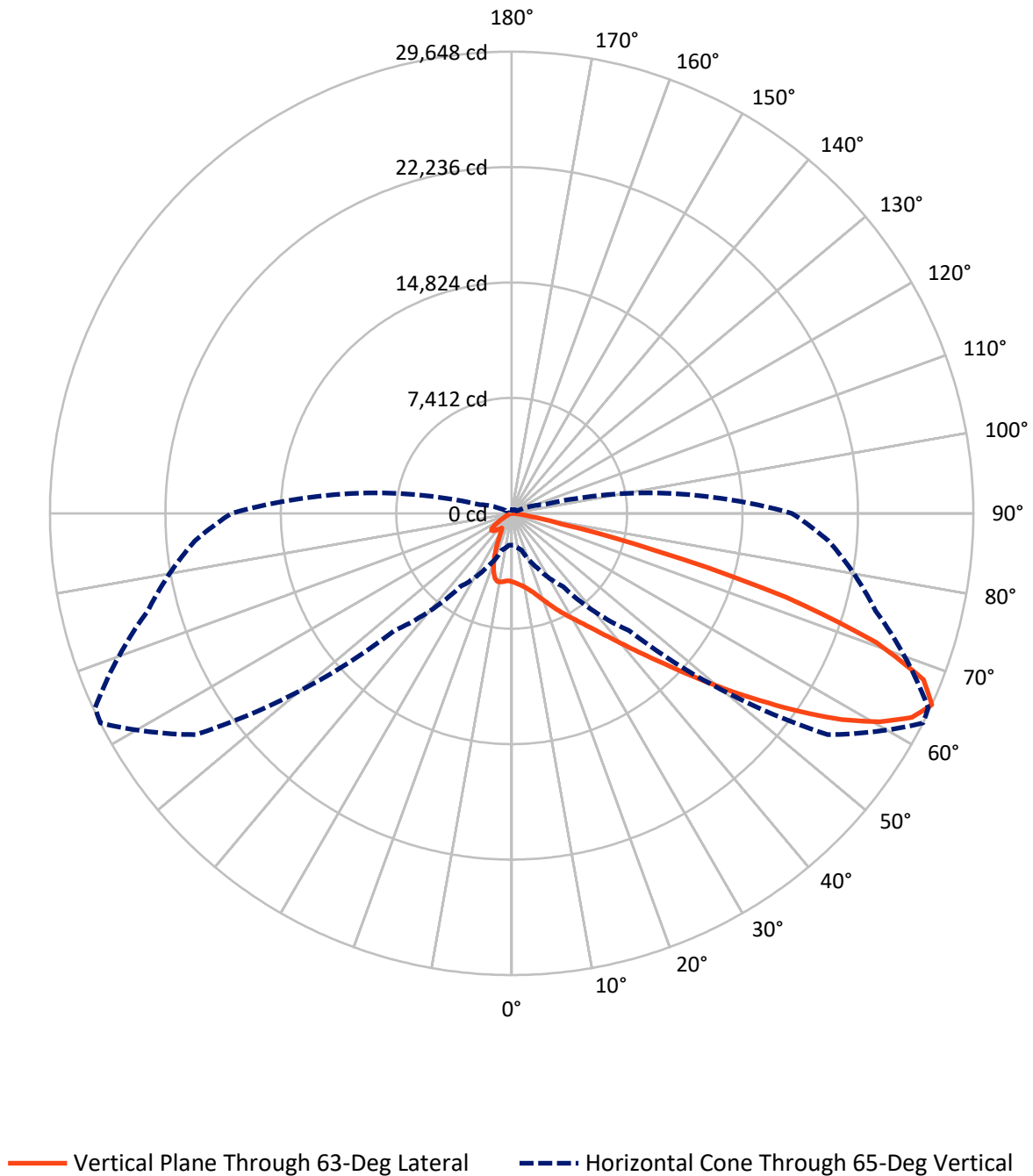
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5229.3	0.0	5229.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	30346.4	0.0	30346.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	35575.7	0.0	35575.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.7	1.2
10°-20°	1147.8	3.2
20°-30°	1998.7	5.6
30°-40°	3602.4	10.1
40°-50°	7144.7	20.1
50°-60°	9732.3	27.4
60°-70°	7768.2	21.8
70°-80°	3515.3	9.9
80°-90°	252.7	0.7
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°	35575.7	100.0
0°-180°	35575.7	100.0

Coefficient of Utilization



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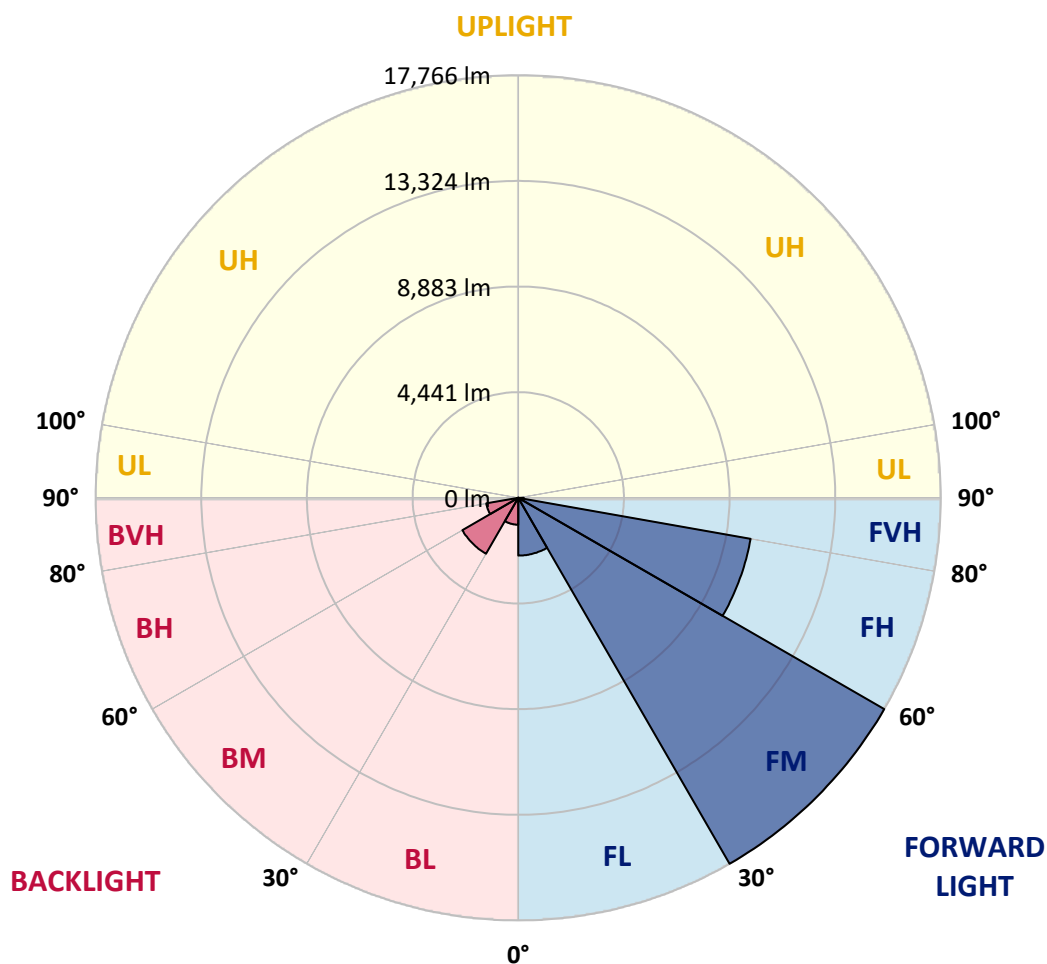
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2428.5	6.8			
FM	(30°-60°)	17765.6	49.9			
FH	(60°-80°)	9918.3	27.9			G4/12000
FVH	(80°-90°)	233.9	0.7			G3/500
BL	(0°-30°)	1131.7	3.2	B3/2500		
BM	(30°-60°)	2713.7	7.6	B3/5000		
BH	(60°-80°)	1365.2	3.8	B3/2500		G3/2500
BVH	(80°-90°)	18.8	0.1			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7
2.5°	4493.5	4481.3	4498.4	4491.0	4486.1	4476.4	4471.5	4466.5	4456.8	4449.4	4420.1
5°	4505.7	4498.4	4515.5	4530.2	4545.0	4559.6	4566.9	4576.7	4566.9	4547.3	4518.0
7.5°	4403.0	4398.1	4434.8	4478.8	4545.0	4601.2	4662.4	4696.7	4699.1	4691.7	4660.0
10°	4395.6	4383.4	4420.1	4473.9	4559.6	4660.0	4767.6	4841.1	4850.8	4882.7	4848.4
12.5°	4510.6	4498.4	4549.8	4608.5	4696.7	4801.9	4934.0	5036.8	5051.5	5095.6	5071.1
15°	4704.0	4686.8	4745.5	4821.5	4934.0	5054.0	5193.5	5286.4	5298.7	5352.5	5308.5
17.5°	4929.1	4912.0	4980.6	5061.3	5183.7	5347.6	5509.2	5612.0	5626.6	5661.0	5580.2
20°	5218.0	5195.9	5249.7	5323.2	5452.9	5648.7	5842.1	5988.9	5986.4	5986.4	5854.3
22.5°	5553.2	5519.0	5565.4	5624.2	5746.6	5984.0	6241.0	6414.8	6414.8	6346.2	6128.4
25°	5913.0	5878.8	5930.1	5984.0	6091.7	6360.9	6662.0	6877.3	6887.1	6769.6	6422.1
27.5°	6363.3	6319.3	6358.5	6422.1	6485.7	6759.9	7117.2	7366.8	7371.7	7190.6	6701.1
30°	7229.7	7104.9	6982.5	6914.0	6943.4	7215.1	7596.9	7873.4	7897.9	7648.2	7004.5
32.5°	8815.7	8791.2	8360.5	7797.6	7503.8	7704.5	8132.9	8465.7	8480.4	8159.8	7398.7
35°	11280.2	11250.9	10558.3	9486.3	8529.3	8360.5	8783.8	9178.0	9168.1	8805.9	7910.1
37.5°	14222.1	14195.1	13282.3	11848.1	10298.9	9351.7	9623.3	10037.0	10098.2	9623.3	8570.9
40°	16735.6	16635.2	16057.6	14674.8	12648.4	10996.4	10817.7	11091.8	11155.5	10592.6	9410.4
42.5°	18639.7	18554.0	18260.4	17396.4	15492.4	13429.1	12225.0	12330.2	12401.2	11725.7	10374.7
45°	19626.1	19606.5	19724.0	19643.2	18390.1	16415.0	14236.7	13798.7	13825.6	12981.2	11468.7
47.5°	19765.6	19755.7	20291.7	21050.4	20881.6	19782.7	16818.8	15629.4	15533.9	14398.3	12658.1
50°	18943.2	18923.7	19951.5	21373.5	22545.9	22611.9	19750.8	17692.5	17482.1	15864.3	13899.0
52.5°	16317.1	16312.3	18000.9	20367.7	23130.8	25088.7	22648.6	19958.9	19606.5	17416.0	15210.9
55°	12555.4	12645.9	14581.9	17379.3	22063.7	26280.7	25250.3	22474.9	21934.0	18977.5	16419.9
57.5°	8894.0	9026.2	10940.0	13431.6	18754.7	25575.8	27010.0	24995.8	24413.2	20534.0	17646.1
60°	4777.4	4894.9	6811.2	9784.9	13952.9	22947.2	27937.6	27183.7	26633.1	22012.3	18752.3
62.5°	2846.4	2885.6	3678.5	6316.9	9437.4	17531.1	27543.5	28850.5	28397.7	23253.1	19714.1
65°	2043.6	2050.9	2449.9	3857.2	5729.4	10651.3	24780.4	29648.3	29508.8	24188.1	20426.4
67.5°	1720.6	1715.6	1882.1	2562.5	3903.7	5335.4	18992.1	28520.0	29112.4	24780.4	20830.2
70°	1475.8	1483.2	1679.0	1877.2	2934.5	3020.2	9442.2	24831.8	26094.7	24937.0	20805.8
72.5°	1098.9	1123.4	1304.5	1710.7	2214.9	2077.9	3260.0	18412.1	20695.6	23495.5	19726.4
75°	775.8	788.1	917.8	1439.1	1652.0	1512.5	1664.3	9518.2	12445.2	18013.1	16145.8
77.5°	597.2	619.2	695.1	1005.9	1627.6	1062.2	1018.1	3294.2	5061.3	10881.3	11069.8
80°	323.1	362.2	501.7	726.9	1143.0	751.3	504.2	1311.8	1715.6	5088.2	4268.3
82.5°	166.5	186.0	349.9	523.8	651.0	655.9	249.7	545.8	707.4	1571.2	585.0
85°	66.1	80.8	234.9	288.8	335.3	323.1	112.5	220.3	254.5	435.6	178.7
87.5°	14.7	24.5	85.7	66.1	63.7	68.6	27.0	51.4	49.0	51.4	31.8
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°	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7	4390.7
2.5°	4417.6	4407.8	4381.0	4351.5	4317.3	4297.7	4285.4	4283.1	4265.8	4253.6	4265.8
5°	4491.0	4481.3	4429.8	4368.7	4302.6	4251.2	4202.3	4158.2	4094.6	4082.4	4077.4
7.5°	4637.9	4611.0	4527.7	4444.6	4319.8	4170.4	3989.3	3781.3	3595.3	3539.0	3512.1
10°	4819.0	4782.3	4677.1	4530.2	4253.6	3847.3	3409.3	3003.0	2680.0	2589.4	2555.1
12.5°	5024.7	4992.8	4853.3	4581.6	3977.1	3240.4	2569.8	2065.7	1752.3	1674.0	1652.0
15°	5269.3	5222.9	5029.5	4503.3	3482.7	2462.2	1764.6	1466.1	1353.4	1338.8	1324.1
17.5°	5528.7	5452.9	5186.1	4221.9	2817.0	1749.9	1363.2	1277.6	1228.7	1213.9	1206.6
20°	5766.1	5668.2	5279.2	3796.0	2104.8	1363.2	1221.3	1165.0	1120.9	1103.8	1094.0
22.5°	6003.6	5864.0	5279.2	3215.9	1578.6	1209.0	1120.9	1069.5	1018.1	996.1	983.9
25°	6250.8	6064.7	5186.1	2569.8	1270.2	1108.7	1025.5	969.1	925.2	898.2	888.5
27.5°	6490.6	6233.6	4973.2	1958.0	1130.7	1020.6	937.4	883.6	841.9	822.4	822.4
30°	6718.3	6400.1	4674.6	1485.6	1040.2	934.9	856.6	810.1	768.5	749.0	751.3
32.5°	7026.6	6610.5	4356.5	1218.8	961.9	854.1	783.2	739.1	702.4	687.8	687.8
35°	7454.9	6921.4	4082.4	1196.8	895.7	788.1	717.1	675.5	638.8	626.6	626.6
37.5°	8061.8	7423.0	3937.9	1343.7	841.9	729.3	663.3	619.2	585.0	575.1	572.7
40°	8810.8	8103.4	4016.3	1490.5	805.2	677.9	614.3	570.2	540.9	528.7	526.2
42.5°	9699.3	8942.9	4449.4	1603.1	780.7	633.9	567.8	518.9	499.3	494.4	494.4
45°	10719.8	9865.6	5112.7	1723.0	741.6	592.2	521.3	484.6	469.9	467.5	465.0
47.5°	11879.9	10878.8	5881.2	1872.3	702.4	553.1	484.6	460.1	447.9	443.0	443.0
50°	13030.2	11899.4	6671.7	1955.5	670.6	516.4	455.2	435.6	425.9	423.4	423.4
52.5°	14234.4	12949.4	7310.5	1877.2	643.7	487.1	430.7	416.0	406.3	403.8	403.8
55°	15382.2	13798.7	7420.7	1593.3	589.8	457.7	403.8	396.5	384.3	384.3	381.8
57.5°	16371.0	14224.5	6642.4	1169.8	536.0	413.6	376.9	369.6	359.8	357.3	354.9
60°	17278.9	14102.2	5127.4	788.1	477.2	369.6	342.7	337.7	328.0	315.7	313.2
62.5°	17790.5	13563.7	3507.1	513.9	418.5	323.1	303.5	301.0	279.0	254.5	249.7
65°	17983.8	12457.4	2188.0	374.4	349.9	276.5	261.9	257.0	225.2	198.2	195.8
67.5°	17814.9	10636.6	1103.8	296.1	276.5	230.0	215.4	215.4	193.3	168.9	166.5
70°	17139.4	7973.8	465.0	237.4	212.9	176.2	176.2	186.0	164.0	137.0	134.6
72.5°	15673.4	5364.7	247.2	181.1	159.1	124.8	144.4	151.7	129.8	102.8	102.8
75°	12459.9	3272.2	171.3	134.6	100.3	88.1	110.1	115.0	88.1	68.6	66.1
77.5°	8522.0	1879.6	115.0	85.7	63.7	51.4	75.8	70.9	46.5	31.8	34.2
80°	3742.2	783.2	66.1	39.2	24.5	19.6	27.0	19.6	14.7	9.8	9.8
82.5°	438.1	183.6	24.5	14.7	9.8	4.9	2.5	0.0	0.0	0.0	0.0
85°	90.5	22.0	12.2	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	4.9	2.5	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)