

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: P970376

Luminaire Tested: **NAV-SB6B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26960.6 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 220.4
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

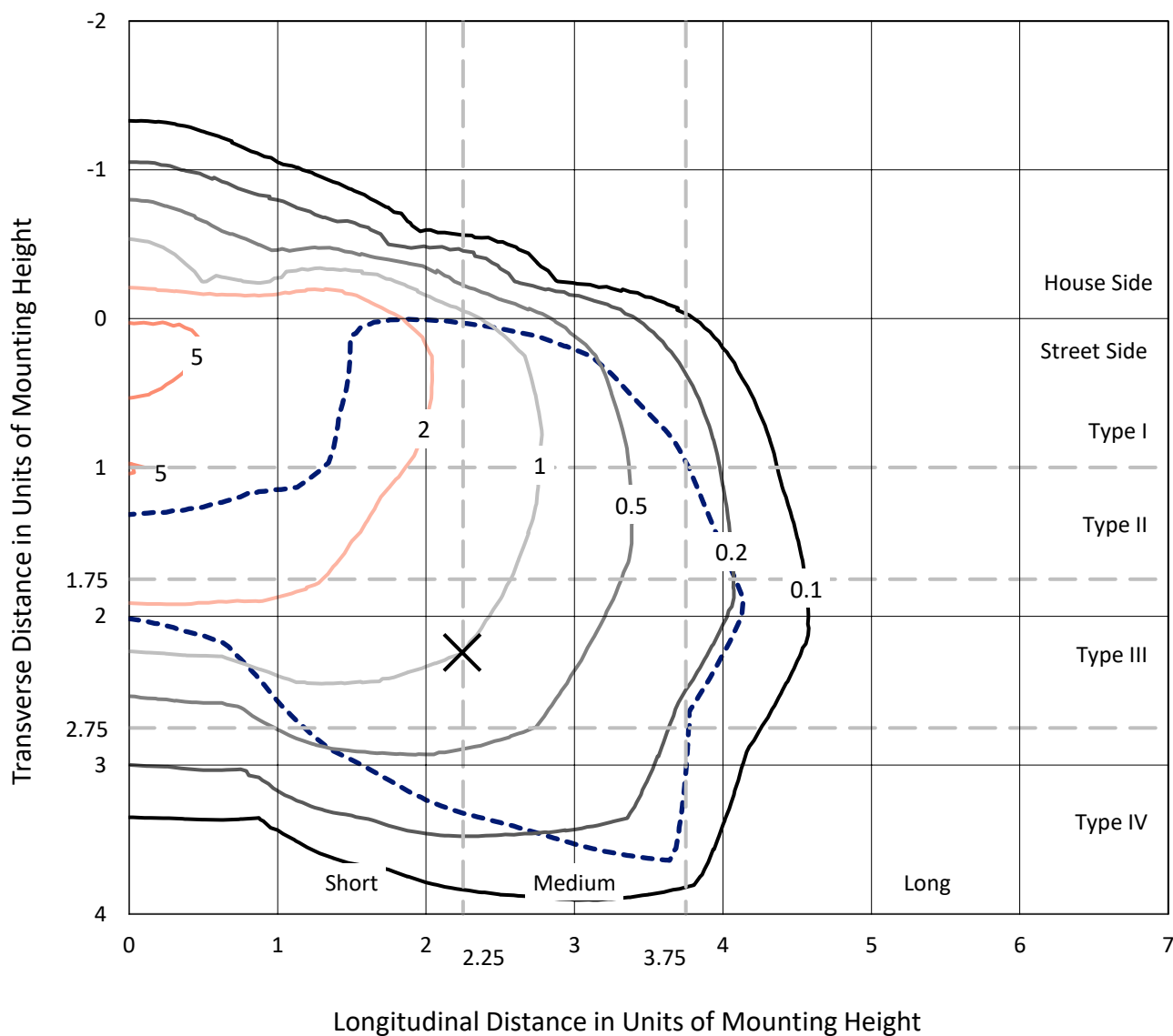


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

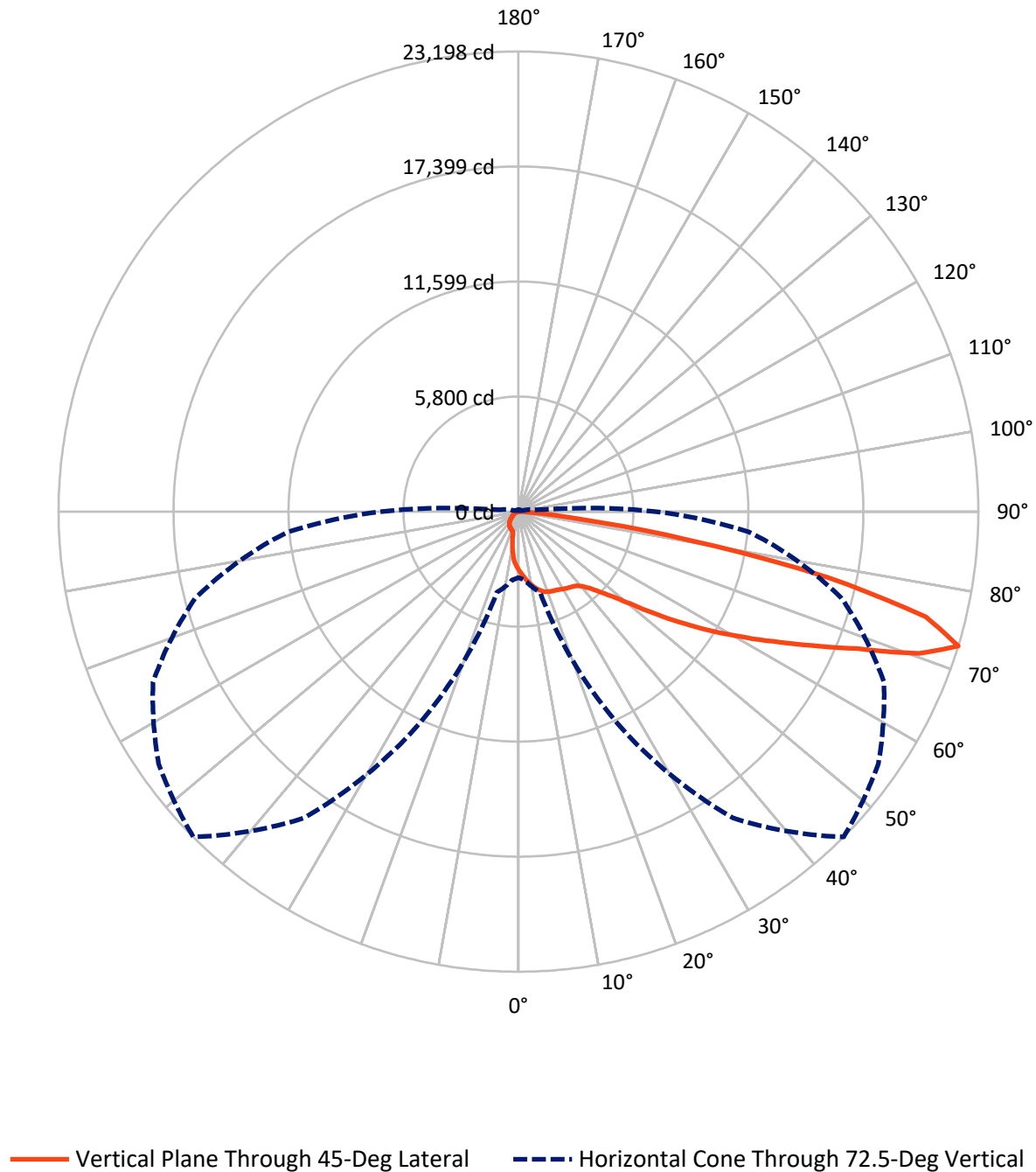


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2832.8	0.0	2832.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24127.8	0.0	24127.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	26960.6	0.0	26960.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	1.0
10°-20°	813.3	3.0
20°-30°	1335.6	5.0
30°-40°	1894.2	7.0
40°-50°	3130.9	11.6
50°-60°	5624.3	20.9
60°-70°	7809.6	29.0
70°-80°	5664.9	21.0
80°-90°	409.5	1.5
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°	26960.6	100.0
0°-180°	26960.6	100.0

Coefficient of Utilization



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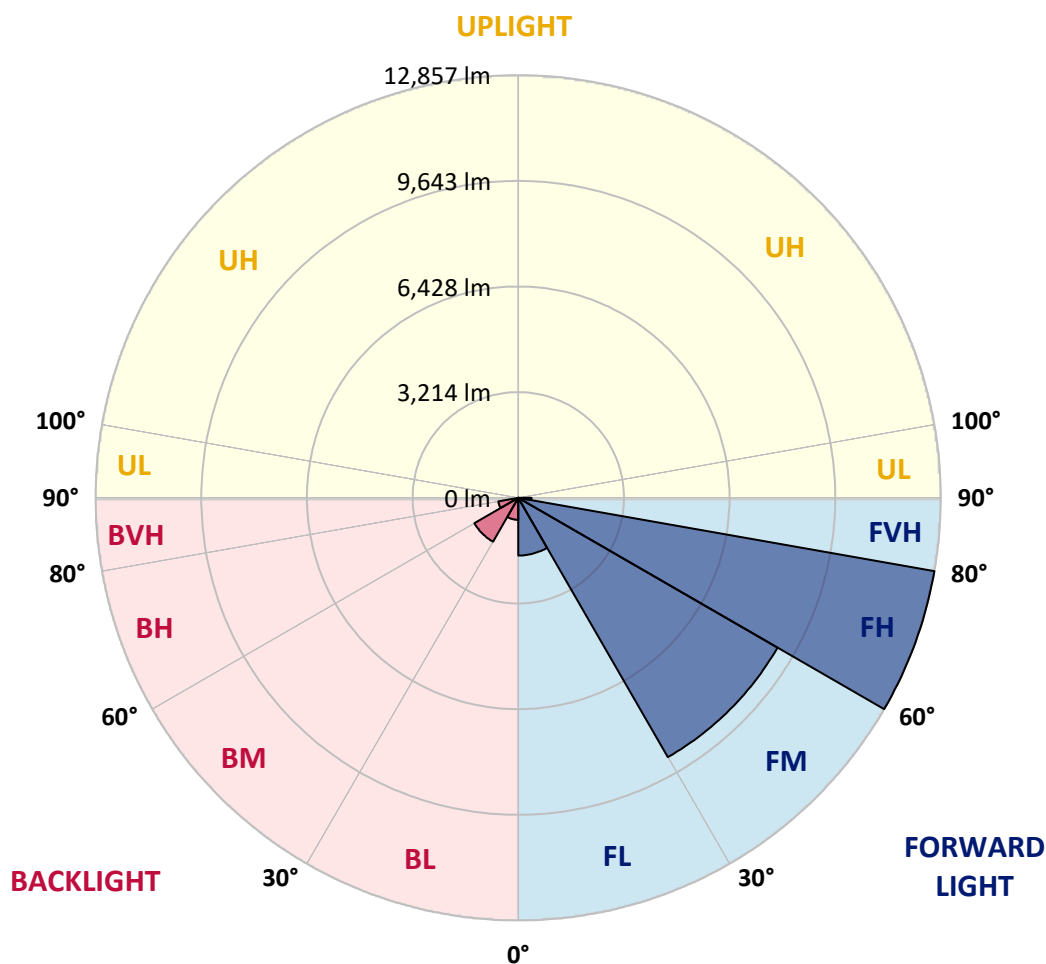
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1756.2	6.5			
FM	(30°-60°)	9108.7	33.8			
FH	(60°-80°)	12856.7	47.7			G5
FVH	(80°-90°)	406.1	1.5			G3/500
BL	(0°-30°)	671.0	2.5	B2/1000		
BM	(30°-60°)	1540.6	5.7	B2/2500		
BH	(60°-80°)	617.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5
2.5°	3226.0	3231.4	3227.8	3205.7	3168.9	3148.7	3137.6	3100.8	3076.8	3034.5	2990.4
5°	3522.2	3544.3	3531.4	3487.3	3417.4	3367.6	3352.9	3277.4	3209.4	3130.2	3038.2
7.5°	3836.9	3848.0	3824.1	3767.0	3673.1	3588.4	3575.6	3470.6	3362.1	3240.6	3115.5
10°	4109.2	4122.1	4085.3	4002.5	3895.8	3790.9	3772.5	3656.6	3527.7	3378.7	3218.6
12.5°	4337.5	4350.3	4302.4	4203.1	4085.3	3976.8	3958.3	3836.9	3695.2	3529.6	3330.8
15°	4510.4	4534.4	4469.9	4363.2	4236.2	4127.7	4118.4	3998.8	3860.9	3676.8	3465.2
17.5°	4611.7	4635.6	4574.9	4446.0	4337.5	4245.4	4234.4	4135.1	4006.2	3829.5	3595.8
20°	4628.2	4650.3	4585.8	4473.6	4383.4	4309.8	4304.3	4232.5	4138.7	3969.4	3737.6
22.5°	4578.6	4606.1	4547.2	4457.1	4394.5	4355.8	4348.5	4308.0	4254.7	4111.1	3870.0
25°	4527.0	4549.1	4504.9	4425.7	4392.6	4388.9	4394.5	4387.1	4376.1	4254.7	4024.6
27.5°	4523.3	4547.2	4497.6	4422.1	4403.7	4442.3	4447.9	4482.8	4492.1	4385.3	4173.7
30°	4554.6	4571.2	4523.3	4444.2	4435.0	4523.3	4525.2	4587.7	4602.5	4495.8	4320.9
32.5°	4622.6	4641.1	4593.2	4477.3	4464.4	4587.7	4593.2	4676.0	4699.9	4613.5	4475.5
35°	4782.8	4804.9	4749.6	4569.3	4523.3	4648.5	4665.0	4762.6	4810.4	4738.6	4635.6
37.5°	5182.1	5117.7	5042.3	4755.2	4657.7	4744.1	4771.8	4885.9	4970.5	4887.7	4826.9
40°	6174.0	5971.5	5736.0	5071.7	4893.2	4948.4	4970.5	5084.6	5200.5	5119.6	5090.2
42.5°	7662.8	7423.6	7044.4	5800.5	5248.4	5276.0	5292.5	5391.9	5555.7	5491.2	5498.6
45°	8989.6	8903.0	8516.6	7044.4	5912.7	5776.5	5796.8	5848.2	6089.3	6065.4	6113.3
47.5°	10009.1	9959.4	9661.2	8472.4	7035.3	6389.3	6446.3	6470.3	6818.1	6902.8	7031.6
50°	10793.0	10774.6	10507.8	9742.2	8502.0	7292.9	7313.2	7261.6	7782.4	7992.1	8236.9
52.5°	11532.8	11595.4	11398.4	10921.8	10068.0	8476.1	8472.4	8229.5	8932.6	9249.1	9666.8
55°	12200.8	12222.9	12243.1	12125.3	11643.2	9823.2	9788.2	9390.7	10266.7	10594.3	11046.9
57.5°	12828.3	12837.5	13017.9	13259.0	13282.9	11269.7	11205.2	10728.6	11724.2	11957.9	12235.7
60°	13249.8	13292.1	13673.0	14342.8	14635.5	12762.1	12727.1	12241.3	13207.4	13316.0	13264.4
62.5°	12642.5	12900.1	13860.7	15189.4	15912.6	14416.4	14399.9	13943.5	14767.9	14679.6	14238.0
65°	10233.6	10669.7	12359.0	15761.6	17165.8	16264.1	16288.0	15802.1	16370.8	16083.7	15029.3
67.5°	7158.5	7618.6	9617.1	15807.7	18566.2	18433.7	18571.8	17809.9	18073.0	17428.9	15216.9
70°	4950.2	5187.6	6488.7	14817.6	19657.4	21422.3	21418.6	20275.8	19766.0	18041.7	14260.0
72.5°	3329.0	3452.3	4214.2	11755.4	18855.1	23198.1	23091.4	22160.2	20336.5	16873.1	11650.6
75°	1404.1	1494.2	1950.7	6606.4	14917.0	21223.5	20934.6	19583.9	18069.3	13286.6	7269.0
77.5°	445.4	484.0	769.3	2364.7	8216.7	15953.1	15647.5	12230.2	12110.7	6665.4	2657.3
80°	211.7	246.6	432.4	949.6	3233.3	8676.7	8634.4	5548.3	5209.8	1799.8	533.7
82.5°	92.0	108.5	239.2	507.9	1446.5	3095.3	3157.8	1888.0	1562.4	682.8	163.8
85°	29.4	38.6	110.4	233.7	611.0	769.3	760.0	449.1	629.3	371.8	57.1
87.5°	0.0	0.0	36.8	53.4	62.5	44.2	49.7	38.6	174.9	103.0	20.2
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°	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5	2953.5
2.5°	2968.3	2938.9	2887.3	2839.5	2797.1	2754.9	2729.1	2692.3	2688.6	2688.6	2697.8
5°	2988.6	2940.7	2848.7	2751.2	2638.9	2532.2	2425.5	2322.3	2289.2	2265.4	2276.4
7.5°	3047.4	2972.0	2826.6	2640.7	2427.3	2193.6	2029.8	1853.1	1785.0	1748.2	1753.8
10°	3132.1	3029.1	2808.2	2482.4	2136.5	1818.1	1584.4	1393.1	1319.5	1288.2	1288.2
12.5°	3226.0	3099.0	2775.1	2285.5	1818.1	1437.3	1209.1	1120.7	1109.7	1109.7	1109.7
15°	3338.2	3183.6	2718.0	2053.7	1485.1	1137.2	1056.3	1060.0	1071.0	1078.4	1078.4
17.5°	3454.1	3273.7	2627.9	1794.3	1190.6	1023.2	1025.0	1030.5	1039.8	1047.1	1047.1
20°	3579.3	3363.9	2508.3	1518.2	1021.3	990.0	995.6	1001.1	1008.5	1012.1	1013.9
22.5°	3713.6	3448.6	2366.5	1247.7	964.3	962.5	964.3	969.9	979.0	979.0	982.7
25°	3857.2	3542.5	2204.6	1050.7	934.8	934.8	938.5	942.2	949.6	949.6	951.4
27.5°	4004.4	3628.9	2033.5	947.7	909.1	907.2	907.2	912.8	916.5	918.3	920.1
30°	4166.3	3730.2	1862.3	925.7	888.9	879.7	874.1	877.8	881.5	883.3	887.0
32.5°	4332.0	3827.7	1709.6	934.8	868.6	852.1	833.6	829.9	829.9	837.3	842.9
35°	4515.9	3934.5	1591.8	966.2	857.5	811.6	782.1	765.6	767.4	778.4	783.9
37.5°	4736.8	4063.3	1505.3	993.7	850.2	765.6	717.7	697.4	684.6	697.4	693.7
40°	5025.7	4252.8	1442.8	1015.8	841.0	712.2	647.8	614.6	590.7	598.1	594.4
42.5°	5450.8	4550.9	1418.8	1017.6	820.7	649.6	575.9	531.9	496.8	498.7	491.4
45°	6047.0	5022.0	1542.1	993.7	776.5	581.5	500.5	441.7	419.5	414.1	406.7
47.5°	6864.1	5708.4	1827.4	944.0	712.2	515.3	426.9	377.2	360.7	351.5	345.9
50°	7959.0	6589.9	2143.9	888.9	647.8	452.7	366.2	335.0	323.9	314.7	312.8
52.5°	9228.8	7484.2	2403.3	833.6	583.3	397.5	327.6	309.1	299.9	292.6	290.8
55°	10393.7	8100.8	2388.7	774.7	520.8	353.3	299.9	288.9	277.9	270.5	266.8
57.5°	11118.8	8187.2	1969.0	710.3	449.1	318.4	274.2	266.8	254.0	244.8	242.9
60°	11451.8	7694.1	1380.2	625.7	377.2	285.3	246.6	242.9	226.3	213.5	209.8
62.5°	11512.6	6777.6	920.1	520.8	314.7	254.0	218.9	213.5	191.4	169.3	158.3
65°	11266.0	5467.3	636.7	406.7	268.7	220.8	187.7	176.7	152.7	130.7	123.3
67.5°	10485.6	3838.7	443.5	292.6	228.2	174.9	149.0	145.3	127.0	108.5	103.0
70°	9055.9	2188.1	296.3	218.9	180.3	119.6	117.8	121.5	103.0	88.4	81.0
72.5°	6943.2	1001.1	184.0	160.1	123.3	81.0	93.9	95.7	79.1	66.2	58.9
75°	4087.2	428.8	115.9	103.0	62.5	53.4	68.1	69.9	53.4	42.3	36.8
77.5°	1391.2	162.0	73.6	60.7	31.3	29.4	44.2	44.2	29.4	16.6	12.9
80°	316.5	60.7	36.8	23.9	14.8	12.9	14.8	12.9	7.4	1.8	0.0
82.5°	90.2	23.9	14.8	9.2	5.5	5.5	1.8	0.0	0.0	0.0	0.0
85°	25.7	11.1	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	1.8	0.0	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)