

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: P971080

Luminaire Tested: **NAV-SB6C-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971080
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-835-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 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: 32997.8 lumens
Efficiency: N/A
Efficacy: 109.7 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

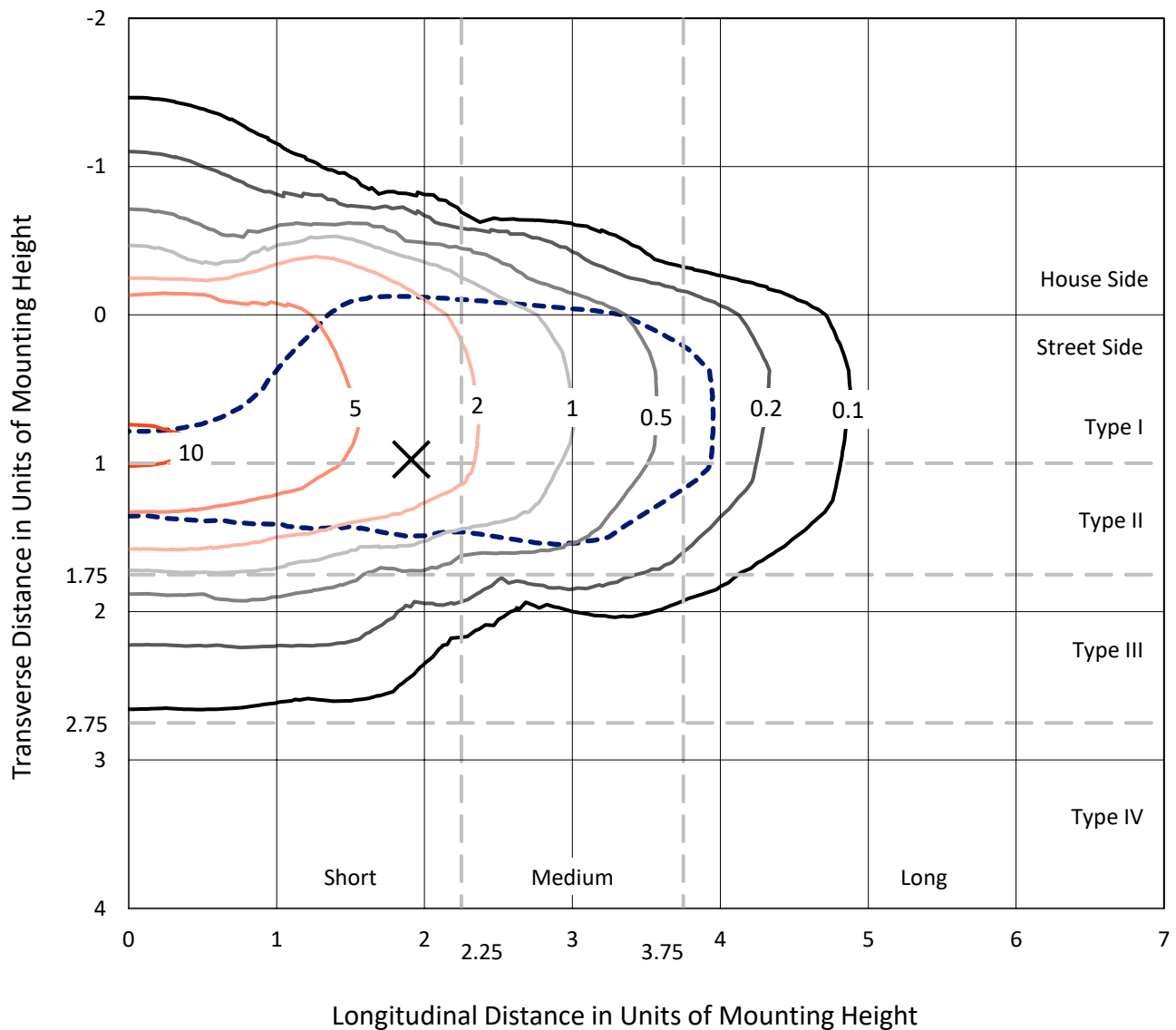


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Iso-Footcandle Lines of Horizontal Illumination

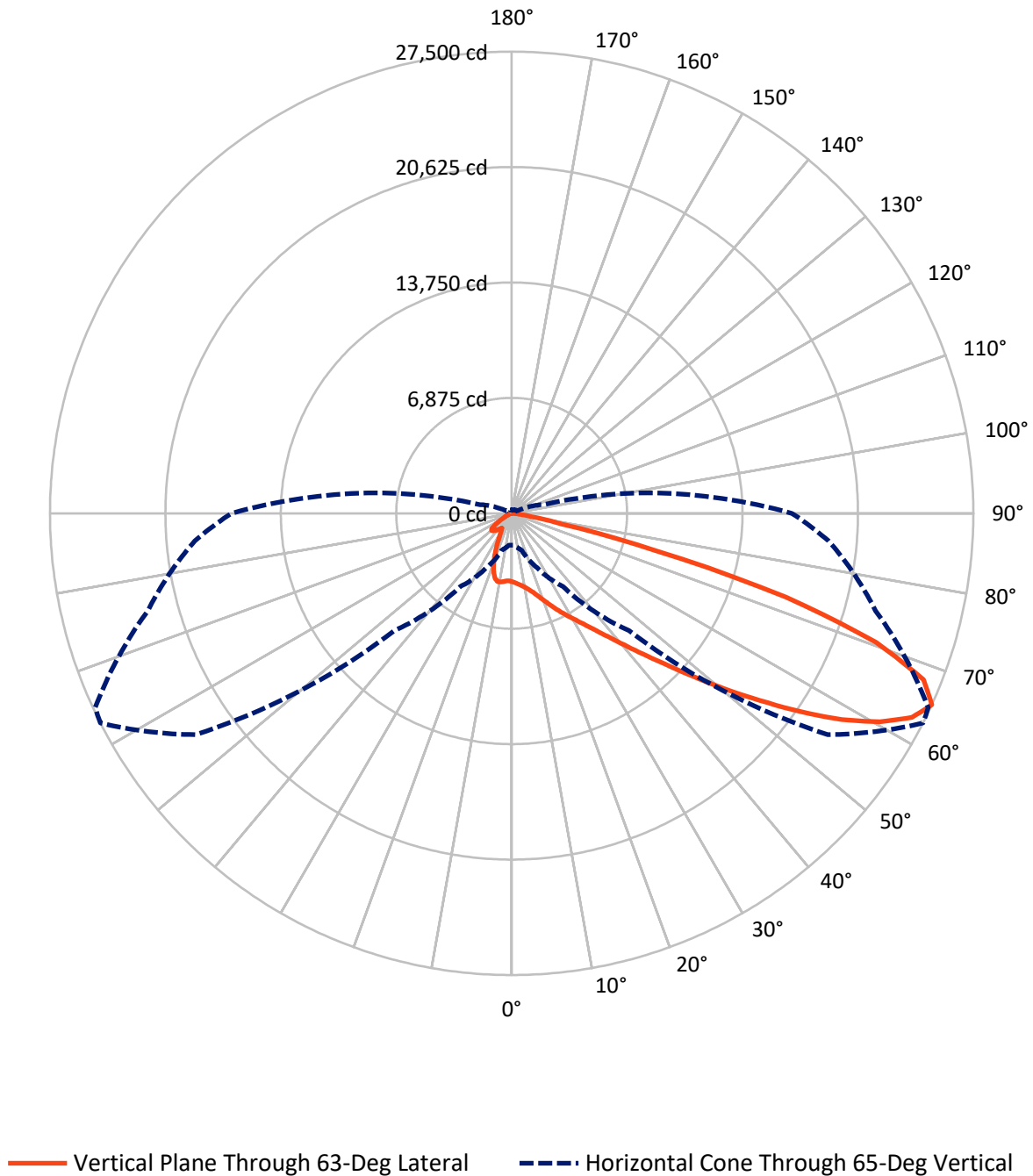
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	4850.4	0.0	4850.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28147.4	0.0	28147.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	32997.8	0.0	32997.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	1.2
10°-20°	1064.7	3.2
20°-30°	1853.8	5.6
30°-40°	3341.3	10.1
40°-50°	6627.0	20.1
50°-60°	9027.0	27.4
60°-70°	7205.3	21.8
70°-80°	3260.6	9.9
80°-90°	234.4	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°	32997.8	100.0
0°-180°	32997.8	100.0

Coefficient of Utilization



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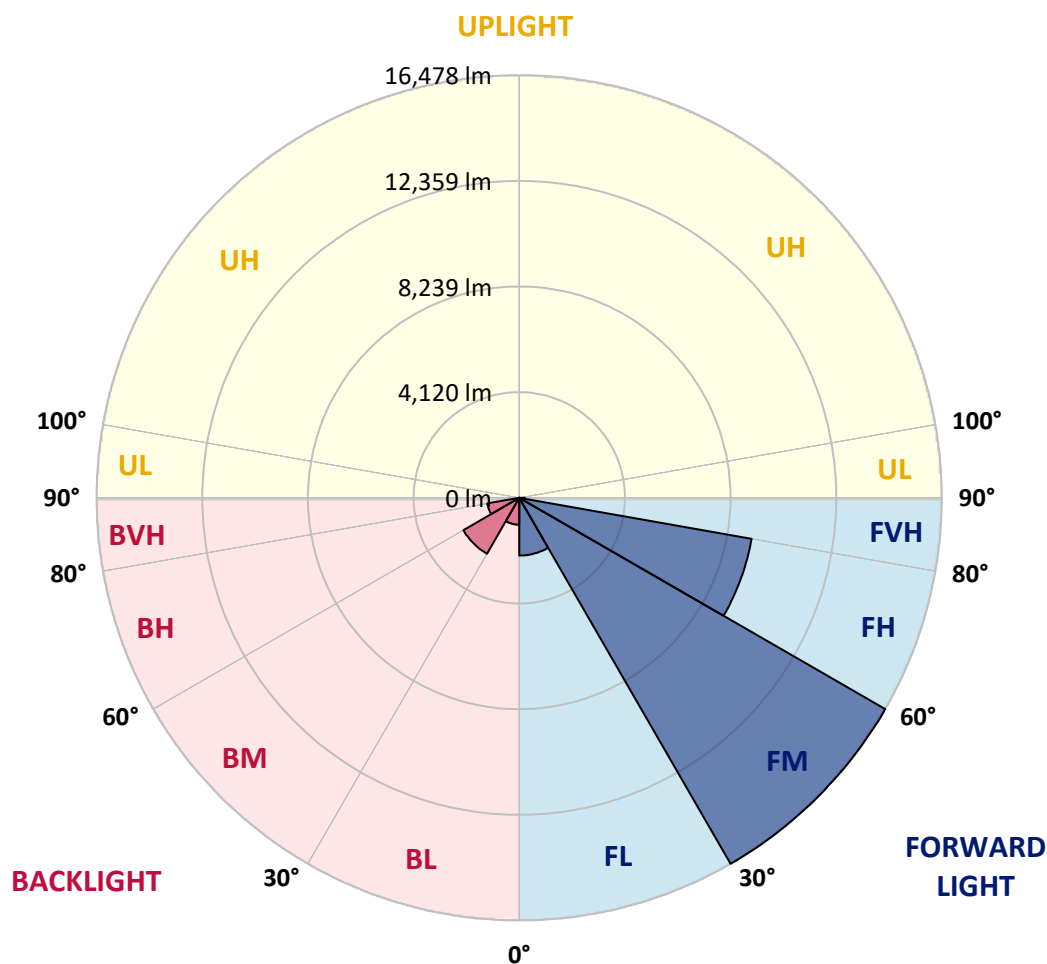
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2252.5	6.8			
FM	(30°-60°)	16478.3	49.9			
FH	(60°-80°)	9199.6	27.9			G4/12000
FVH	(80°-90°)	217.0	0.7			G2/225
BL	(0°-30°)	1049.7	3.2	B3/2500		
BM	(30°-60°)	2517.1	7.6	B3/5000		
BH	(60°-80°)	1266.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	17.4	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°	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5
2.5°	4167.9	4156.6	4172.5	4165.6	4161.1	4152.0	4147.5	4142.9	4133.8	4127.1	4099.8
5°	4179.2	4172.5	4188.4	4202.0	4215.6	4229.2	4236.0	4245.0	4236.0	4217.9	4190.6
7.5°	4083.9	4079.4	4113.4	4154.3	4215.6	4267.8	4324.6	4356.4	4358.6	4351.7	4322.2
10°	4077.1	4065.8	4099.8	4149.7	4229.2	4322.2	4422.2	4490.2	4499.3	4528.9	4497.1
12.5°	4183.7	4172.5	4220.1	4274.6	4356.4	4453.9	4576.5	4671.8	4685.5	4726.4	4703.6
15°	4363.1	4347.2	4401.8	4472.1	4576.5	4687.7	4817.2	4903.4	4914.8	4964.7	4923.8
17.5°	4572.0	4556.1	4619.7	4694.6	4808.1	4960.2	5110.0	5205.4	5219.0	5250.8	5175.8
20°	4839.8	4819.4	4869.4	4937.4	5057.8	5239.4	5418.8	5554.9	5552.6	5552.6	5430.0
22.5°	5150.8	5119.1	5162.2	5216.6	5330.2	5550.4	5788.8	5949.9	5949.9	5886.4	5684.3
25°	5484.6	5452.8	5500.5	5550.4	5650.3	5900.0	6179.2	6379.0	6388.0	6279.0	5956.7
27.5°	5902.3	5861.4	5897.7	5956.7	6015.7	6270.0	6601.4	6833.0	6837.6	6669.6	6215.5
30°	6705.9	6590.1	6476.6	6413.0	6440.3	6692.2	7046.4	7302.9	7325.6	7094.0	6497.1
32.5°	8176.9	8154.2	7754.6	7232.5	6960.2	7146.3	7543.5	7852.2	7865.8	7568.5	6862.5
35°	10462.9	10435.6	9793.2	8798.9	7911.3	7754.6	8147.4	8512.8	8503.8	8167.8	7337.0
37.5°	13191.5	13166.5	12319.8	10989.5	9552.6	8674.1	8926.0	9309.7	9366.4	8926.0	7949.9
40°	15522.9	15429.8	14894.1	13611.5	11731.8	10199.6	10033.8	10288.1	10347.1	9824.9	8728.5
42.5°	17289.1	17209.6	16937.2	16135.9	14369.7	12456.0	11339.2	11436.7	11502.6	10876.1	9622.9
45°	18203.9	18185.8	18294.7	18219.8	17057.5	15225.6	13205.2	12798.8	12823.8	12040.6	10637.7
47.5°	18333.4	18324.2	18821.4	19525.1	19368.5	18349.2	15600.1	14496.9	14408.3	13355.0	11741.0
50°	17570.6	17552.4	18505.9	19824.7	20912.2	20973.4	18319.7	16410.6	16215.3	14714.8	12891.8
52.5°	15134.7	15130.2	16696.5	18891.8	21454.7	23270.8	21007.5	18512.6	18185.8	16154.0	14108.6
55°	11645.6	11729.6	13525.3	16120.0	20464.9	24376.3	23420.6	20846.3	20344.6	17602.3	15230.1
57.5°	8249.5	8372.1	10147.3	12458.3	17395.8	23722.5	25052.8	23184.5	22644.2	19046.1	16367.4
60°	4431.3	4540.2	6317.7	9075.9	12941.9	21284.4	25913.1	25214.0	24703.2	20417.3	17393.5
62.5°	2640.1	2676.5	3411.9	5859.1	8753.5	16260.7	25547.7	26759.9	26339.9	21568.2	18285.6
65°	1895.5	1902.3	2272.3	3577.7	5314.3	9879.5	22984.7	27499.9	27370.6	22435.4	18946.2
67.5°	1595.9	1591.3	1745.7	2376.8	3620.8	4948.8	17616.0	26453.4	27002.8	22984.7	19320.8
70°	1368.9	1375.7	1557.3	1741.2	2721.9	2801.3	8758.0	23032.4	24203.7	23130.0	19298.1
72.5°	1019.3	1042.0	1210.0	1586.8	2054.4	1927.3	3023.7	17077.9	19196.0	21792.9	18297.0
75°	719.7	730.9	851.3	1334.9	1532.3	1402.9	1543.6	8828.4	11543.4	16707.9	14975.9
77.5°	553.9	574.3	644.7	933.1	1509.6	985.2	944.3	3055.5	4694.6	10092.9	10267.6
80°	299.6	336.0	465.4	674.2	1060.2	696.9	467.6	1216.8	1591.3	4719.5	3959.1
82.5°	154.4	172.5	324.6	485.8	603.8	608.3	231.5	506.2	656.1	1457.4	542.5
85°	61.3	74.9	217.9	267.8	311.0	299.6	104.4	204.3	236.1	404.1	165.7
87.5°	13.6	22.7	79.4	61.3	59.0	63.6	25.0	47.7	45.4	47.7	29.5
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°	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5
2.5°	4097.5	4088.4	4063.5	4036.2	4004.5	3986.3	3975.0	3972.7	3956.8	3945.4	3956.8
5°	4165.6	4156.6	4108.9	4052.1	3990.8	3943.2	3897.8	3856.9	3797.8	3786.6	3781.9
7.5°	4301.8	4276.9	4199.6	4122.4	4006.7	3868.2	3700.2	3507.3	3334.7	3282.6	3257.6
10°	4469.8	4435.8	4338.1	4202.0	3945.4	3568.6	3162.2	2785.4	2485.7	2401.8	2370.0
12.5°	4660.5	4631.0	4501.6	4249.6	3688.9	3005.6	2383.6	1915.9	1625.3	1552.8	1532.3
15°	4887.5	4844.4	4665.1	4177.0	3230.4	2283.7	1636.7	1359.8	1255.3	1241.8	1228.2
17.5°	5128.2	5057.8	4810.3	3915.9	2612.9	1623.1	1264.4	1185.0	1139.6	1126.0	1119.2
20°	5348.3	5257.5	4896.6	3520.9	1952.3	1264.4	1132.7	1080.6	1039.7	1023.8	1014.7
22.5°	5568.5	5439.2	4896.6	2983.0	1464.2	1121.5	1039.7	992.0	944.3	923.9	912.6
25°	5797.8	5625.3	4810.3	2383.6	1178.1	1028.4	951.2	898.9	858.1	833.1	824.0
27.5°	6020.3	5781.9	4612.8	1816.1	1048.8	946.6	869.4	819.5	780.9	762.7	762.7
30°	6231.4	5936.3	4335.9	1377.9	964.8	867.2	794.6	751.4	712.8	694.6	696.9
32.5°	6517.5	6131.5	4040.8	1130.5	892.2	792.2	726.4	685.5	651.5	637.9	637.9
35°	6914.8	6419.9	3786.6	1110.1	830.9	730.9	665.1	626.6	592.4	581.2	581.2
37.5°	7477.7	6885.2	3652.6	1246.3	780.9	676.5	615.2	574.3	542.5	533.5	531.2
40°	8172.3	7516.3	3725.3	1382.5	746.8	628.8	569.8	528.9	501.7	490.4	488.1
42.5°	8996.4	8294.9	4127.1	1486.9	724.2	587.9	526.6	481.2	463.1	458.6	458.6
45°	9943.0	9150.8	4742.3	1598.2	687.9	549.4	483.5	449.5	435.8	433.6	431.3
47.5°	11019.1	10090.6	5455.0	1736.7	651.5	513.0	449.5	426.8	415.4	410.9	410.9
50°	12086.0	11037.2	6188.3	1813.8	622.0	479.0	422.2	404.1	395.0	392.7	392.7
52.5°	13202.9	12011.1	6780.8	1741.2	597.1	451.7	399.5	385.9	376.8	374.5	374.5
55°	14267.6	12798.8	6883.0	1477.8	547.0	424.6	374.5	367.8	356.4	356.4	354.1
57.5°	15184.7	13193.8	6161.1	1085.1	497.1	383.7	349.6	342.8	333.7	331.5	329.1
60°	16026.9	13080.3	4755.9	730.9	442.7	342.8	317.9	313.2	304.2	292.8	290.6
62.5°	16501.4	12580.8	3253.0	476.7	388.2	299.6	281.5	279.2	258.8	236.1	231.5
65°	16680.6	11554.8	2029.5	347.4	324.6	256.6	242.9	238.3	208.9	183.9	181.6
67.5°	16524.0	9865.8	1023.8	274.7	256.6	213.4	199.8	199.8	179.4	156.6	154.4
70°	15897.4	7396.0	431.3	220.2	197.5	163.5	163.5	172.5	152.1	127.1	124.8
72.5°	14537.7	4976.1	229.3	168.0	147.6	115.8	134.0	140.7	120.3	95.3	95.3
75°	11557.1	3035.1	158.9	124.8	93.1	81.7	102.2	106.7	81.7	63.6	61.3
77.5°	7904.5	1743.4	106.7	79.4	59.0	47.7	70.4	65.8	43.2	29.5	31.8
80°	3471.0	726.4	61.3	36.3	22.7	18.1	25.0	18.1	13.6	9.1	9.1
82.5°	406.3	170.3	22.7	13.6	9.1	4.5	2.3	0.0	0.0	0.0	0.0
85°	83.9	20.4	11.4	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	4.5	2.3	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)