

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: P970398

Luminaire Tested: **NAV-SB6B-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970398
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-SB6B-740-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA 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: 28299.2 lumens
Efficiency: N/A
Efficacy: 128.4 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): 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



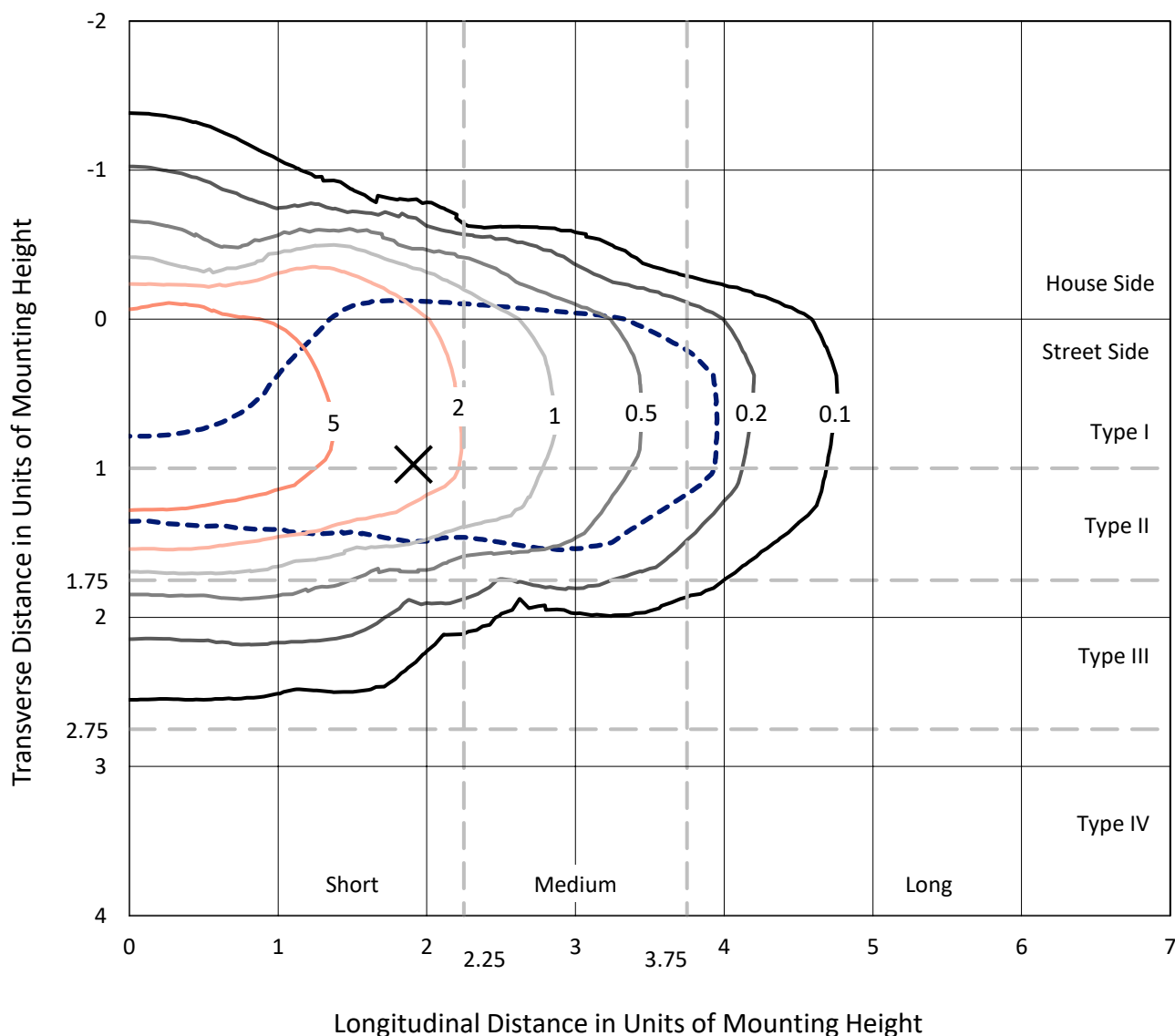
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

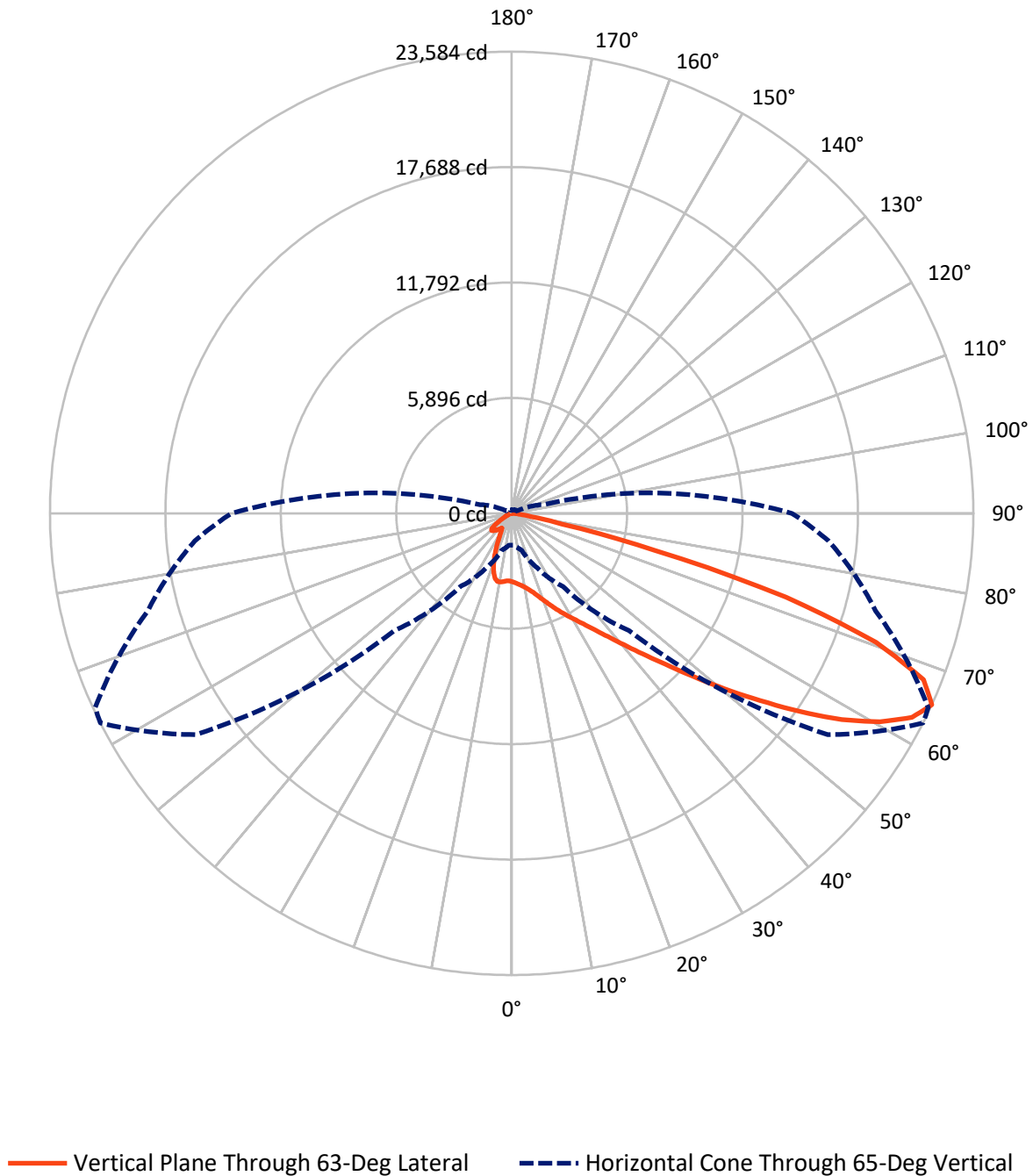


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc

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	4159.8	0.0	4159.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24139.5	0.0	24139.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	28299.2	0.0	28299.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.1	1.2
10°-20°	913.1	3.2
20°-30°	1589.9	5.6
30°-40°	2865.6	10.1
40°-50°	5683.3	20.1
50°-60°	7741.7	27.4
60°-70°	6179.3	21.8
70°-80°	2796.3	9.9
80°-90°	201.0	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°	28299.2	100.0
0°-180°	28299.2	100.0

Coefficient of Utilization



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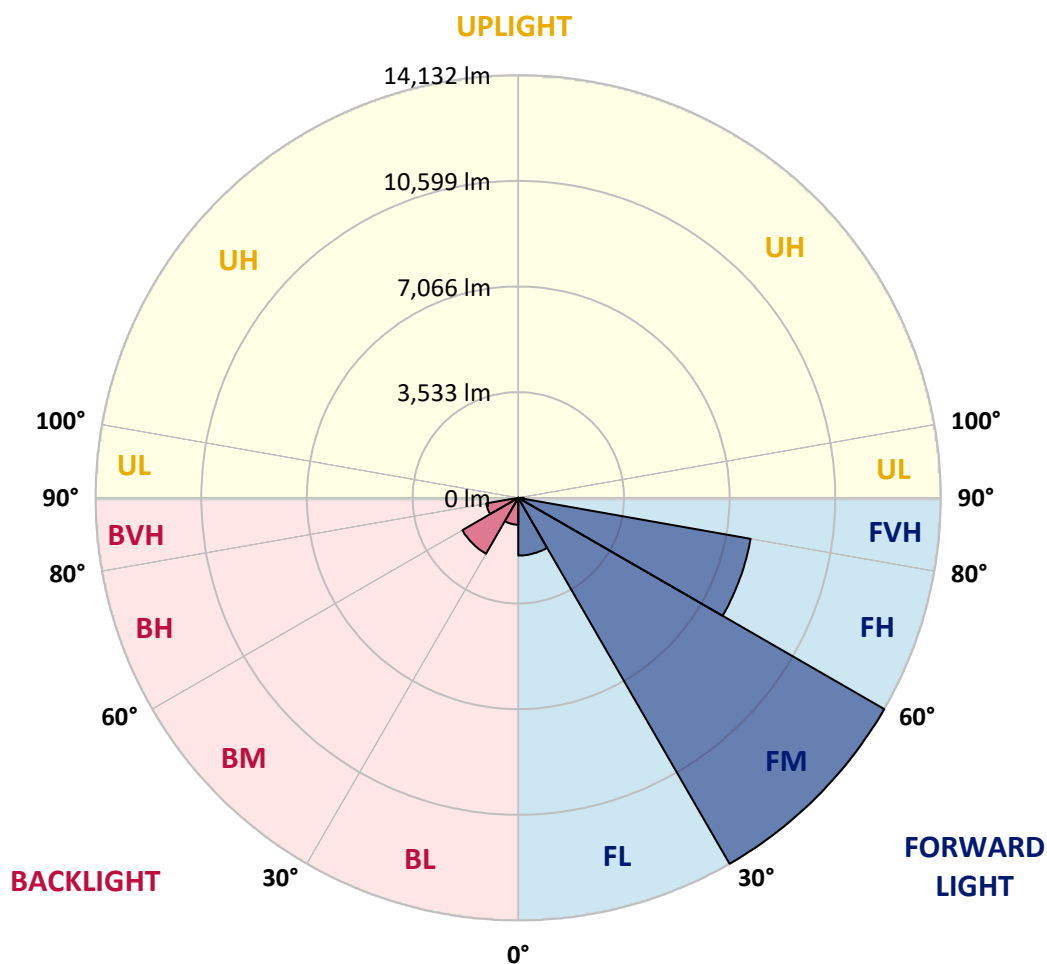
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.8	6.8			
FM	(30°-60°)	14131.9	49.9			
FH	(60°-80°)	7889.7	27.9			G4/12000
FVH	(80°-90°)	186.1	0.7			G2/225
BL	(0°-30°)	900.2	3.2	B2/1000		
BM	(30°-60°)	2158.7	7.6	B2/2500		
BH	(60°-80°)	1086.0	3.8	B3/2500		G3/2500
BVH	(80°-90°)	14.9	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°	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7
2.5°	3574.4	3564.6	3578.3	3572.4	3568.5	3560.8	3557.0	3553.1	3545.3	3539.4	3516.1
5°	3584.1	3578.3	3591.9	3603.6	3615.3	3627.0	3632.8	3640.6	3632.8	3617.2	3593.9
7.5°	3502.4	3498.5	3527.7	3562.7	3615.3	3660.1	3708.8	3736.0	3738.0	3732.1	3706.8
10°	3496.6	3486.8	3516.1	3558.9	3627.0	3706.8	3792.5	3850.9	3858.7	3883.9	3856.8
12.5°	3588.0	3578.3	3619.2	3665.9	3736.0	3819.8	3924.8	4006.6	4018.3	4053.4	4033.9
15°	3741.9	3728.2	3775.0	3835.3	3924.8	4020.3	4131.3	4205.2	4214.9	4257.7	4222.7
17.5°	3920.9	3907.3	3961.8	4026.1	4123.5	4253.9	4382.4	4464.2	4475.9	4503.0	4438.9
20°	4150.7	4133.2	4176.1	4234.4	4337.6	4493.3	4647.1	4764.0	4762.0	4762.0	4656.9
22.5°	4417.4	4390.2	4427.2	4473.9	4571.2	4760.1	4964.5	5102.8	5102.8	5048.2	4874.9
25°	4703.6	4676.4	4717.3	4760.1	4845.7	5059.9	5299.4	5470.6	5478.4	5385.0	5108.6
27.5°	5061.9	5026.8	5058.0	5108.6	5159.1	5377.3	5661.5	5860.0	5863.9	5719.9	5330.5
30°	5751.0	5651.7	5554.4	5499.8	5523.2	5739.3	6043.0	6263.1	6282.5	6083.9	5571.9
32.5°	7012.5	6993.1	6650.5	6202.7	5969.1	6128.7	6469.4	6734.1	6745.8	6490.8	5885.3
35°	8973.1	8949.7	8398.7	7546.0	6784.8	6650.5	6987.2	7300.7	7292.9	7004.7	6292.3
37.5°	11313.1	11291.8	10565.6	9424.8	8192.4	7438.9	7655.0	7984.0	8032.7	7655.0	6817.9
40°	13312.6	13232.7	12773.3	11673.3	10061.4	8747.2	8605.1	8823.2	8873.7	8426.0	7485.7
42.5°	14827.2	14759.1	14525.5	13838.2	12323.6	10682.4	9724.6	9808.2	9864.7	9327.4	8252.7
45°	15611.9	15596.3	15689.7	15625.5	14628.7	13057.6	11324.8	10976.4	10997.7	10326.2	9123.0
47.5°	15722.8	15715.0	16141.4	16744.9	16610.5	15736.4	13378.8	12432.6	12356.7	11453.3	10069.1
50°	15068.6	15053.0	15870.8	17001.9	17934.4	17987.0	15711.1	14073.9	13906.4	12619.5	11056.2
52.5°	12979.7	12975.8	14319.1	16201.8	18399.8	19957.3	18016.2	15876.6	15596.3	13853.8	12099.7
55°	9987.4	10059.5	11599.4	13824.6	17550.9	20905.3	20085.7	17877.9	17447.8	15095.9	13061.5
57.5°	7074.9	7180.0	8702.5	10684.4	14918.8	20344.6	21485.5	19883.3	19419.9	16334.1	14036.9
60°	3800.3	3893.7	5418.2	7783.5	11099.0	18253.7	22223.3	21623.7	21185.7	17510.0	14916.8
62.5°	2264.2	2295.4	2926.2	5024.9	7507.1	13945.3	21909.9	22949.5	22589.4	18497.0	15681.9
65°	1625.6	1631.5	1948.8	3068.2	4557.6	8472.8	19711.9	23584.2	23473.2	19240.8	16248.5
67.5°	1368.7	1364.8	1497.1	2038.3	3105.2	4244.1	15107.6	22686.7	23157.8	19711.9	16569.6
70°	1173.9	1179.8	1335.6	1493.2	2334.2	2402.4	7511.0	19752.8	20757.4	19836.5	16550.3
72.5°	874.1	893.6	1037.7	1360.9	1761.9	1652.9	2593.2	14646.2	16462.6	18689.8	15691.6
75°	617.2	626.9	730.1	1144.7	1314.2	1203.1	1323.9	7571.4	9899.8	14328.9	12843.5
77.5°	475.0	492.5	552.9	800.1	1294.7	844.9	809.9	2620.5	4026.1	8655.7	8805.7
80°	257.0	288.1	399.1	578.2	909.2	597.7	401.1	1043.6	1364.8	4047.5	3395.3
82.5°	132.4	148.0	278.4	416.7	517.8	521.7	198.5	434.2	562.6	1249.9	465.2
85°	52.6	64.3	186.9	229.7	266.7	257.0	89.6	175.2	202.4	346.6	142.2
87.5°	11.7	19.5	68.2	52.6	50.6	54.5	21.4	40.9	38.9	40.9	25.3
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°	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7	3492.7
2.5°	3514.1	3506.3	3484.9	3461.5	3434.3	3418.7	3408.9	3407.0	3393.4	3383.6	3393.4
5°	3572.4	3564.6	3523.8	3475.2	3422.6	3381.7	3342.7	3307.7	3257.0	3247.4	3243.5
7.5°	3689.3	3667.9	3601.6	3535.5	3436.2	3317.4	3173.4	3007.9	2860.0	2815.2	2793.7
10°	3833.4	3804.2	3720.4	3603.6	3383.6	3060.4	2711.9	2388.8	2131.8	2059.7	2032.5
12.5°	3996.9	3971.6	3860.7	3644.5	3163.7	2577.7	2044.2	1643.2	1393.9	1331.7	1314.2
15°	4191.5	4154.6	4000.8	3582.2	2770.4	1958.6	1403.6	1166.1	1076.7	1065.0	1053.3
17.5°	4398.0	4337.6	4125.4	3358.3	2240.9	1392.1	1084.3	1016.3	977.3	965.7	959.8
20°	4586.8	4508.9	4199.3	3019.5	1674.3	1084.3	971.5	926.7	891.6	878.0	870.2
22.5°	4775.7	4664.7	4199.3	2558.2	1255.7	961.8	891.6	850.7	809.9	792.3	782.6
25°	4972.3	4824.3	4125.4	2044.2	1010.4	881.9	815.7	771.0	735.9	714.5	706.7
27.5°	5163.0	4958.6	3956.0	1557.5	899.4	811.8	745.7	702.8	669.7	654.2	654.2
30°	5344.1	5091.1	3718.5	1181.7	827.4	743.7	681.4	644.4	611.3	595.7	597.7
32.5°	5589.4	5258.5	3465.4	969.5	765.2	679.5	623.0	587.9	558.7	547.0	547.0
35°	5930.1	5505.7	3247.4	952.0	712.6	626.9	570.4	537.3	508.1	498.4	498.4
37.5°	6412.9	5904.8	3132.5	1068.9	669.7	580.2	527.6	492.5	465.2	457.6	455.6
40°	7008.6	6446.0	3194.8	1185.6	640.5	539.3	488.6	453.7	430.3	420.6	418.6
42.5°	7715.4	7113.8	3539.4	1275.2	621.0	504.2	451.7	412.8	397.2	393.3	393.3
45°	8527.2	7847.8	4067.0	1370.6	589.9	471.1	414.7	385.5	373.8	371.9	369.9
47.5°	9450.0	8653.8	4678.3	1489.3	558.7	440.0	385.5	366.0	356.3	352.4	352.4
50°	10365.1	9465.6	5307.1	1555.5	533.4	410.8	362.1	346.6	338.8	336.8	336.8
52.5°	11322.9	10300.8	5815.2	1493.2	512.0	387.4	342.7	331.0	323.2	321.2	321.2
55°	12235.9	10976.4	5902.9	1267.4	469.1	364.1	321.2	315.4	305.7	305.7	303.7
57.5°	13022.5	11315.1	5283.8	930.6	426.4	329.0	299.8	294.0	286.2	284.2	282.3
60°	13744.8	11217.8	4078.7	626.9	379.7	294.0	272.5	268.7	260.9	251.1	249.2
62.5°	14151.7	10789.5	2789.8	408.9	332.9	257.0	241.4	239.4	221.9	202.4	198.5
65°	14305.5	9909.5	1740.4	297.9	278.4	220.0	208.3	204.4	179.1	157.6	155.7
67.5°	14171.1	8461.1	878.0	235.5	220.0	183.0	171.3	171.3	153.9	134.4	132.4
70°	13633.8	6342.9	369.9	188.8	169.3	140.2	140.2	148.0	130.5	109.1	107.1
72.5°	12467.7	4267.5	196.6	144.1	126.6	99.3	114.9	120.7	103.2	81.8	81.8
75°	9911.4	2603.0	136.3	107.1	79.8	70.1	87.6	91.5	70.1	54.5	52.6
77.5°	6778.9	1495.2	91.5	68.2	50.6	40.9	60.4	56.5	37.0	25.3	27.3
80°	2976.7	623.0	52.6	31.2	19.5	15.6	21.4	15.6	11.7	7.8	7.8
82.5°	348.5	146.1	19.5	11.7	7.8	3.9	1.9	0.0	0.0	0.0	0.0
85°	72.1	17.5	9.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	3.9	1.9	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)