

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: P970402

Luminaire Tested: **NAV-SB6B-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-740-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30828.9 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

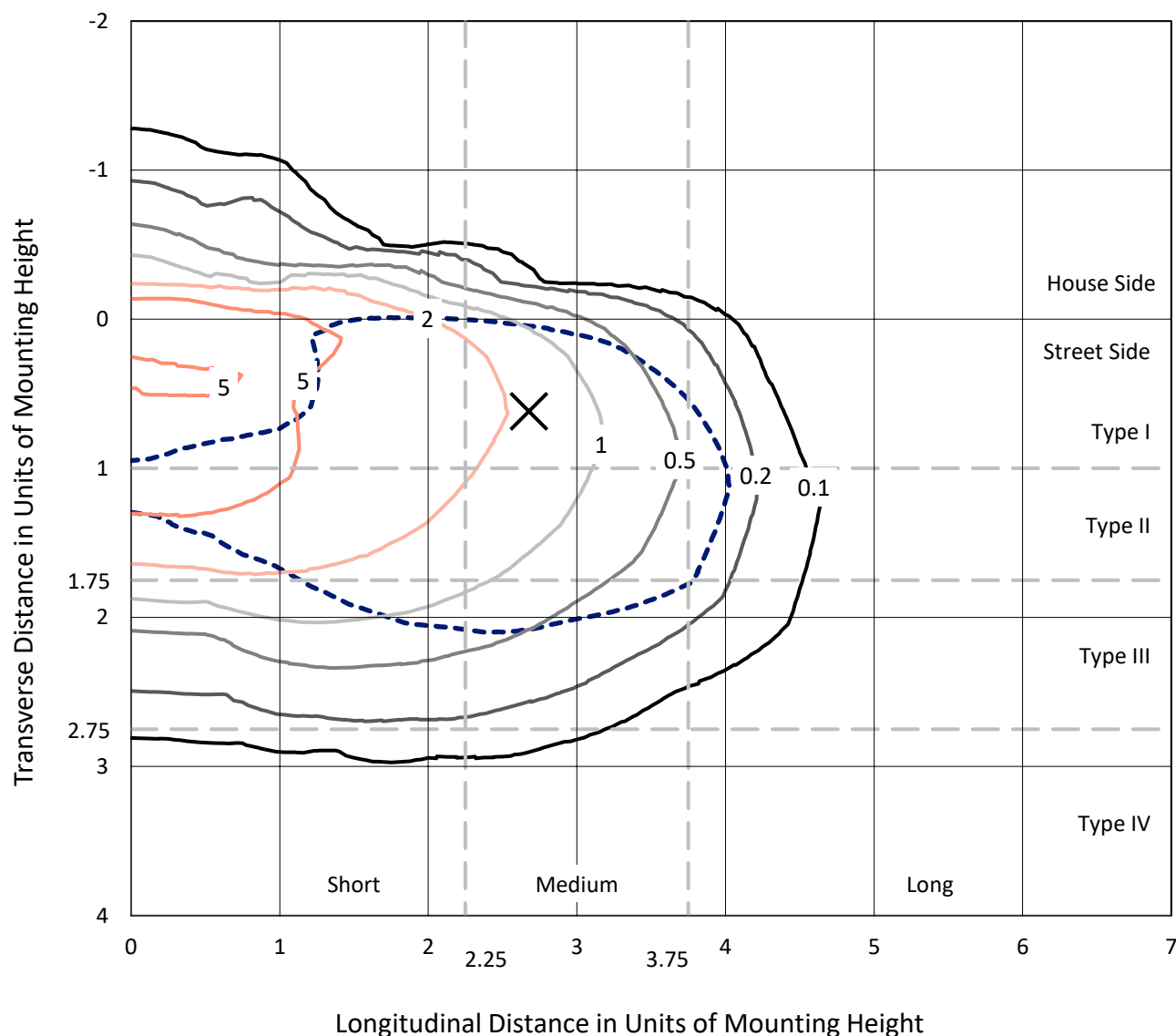


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Iso-Footcandle Lines of Horizontal Illumination

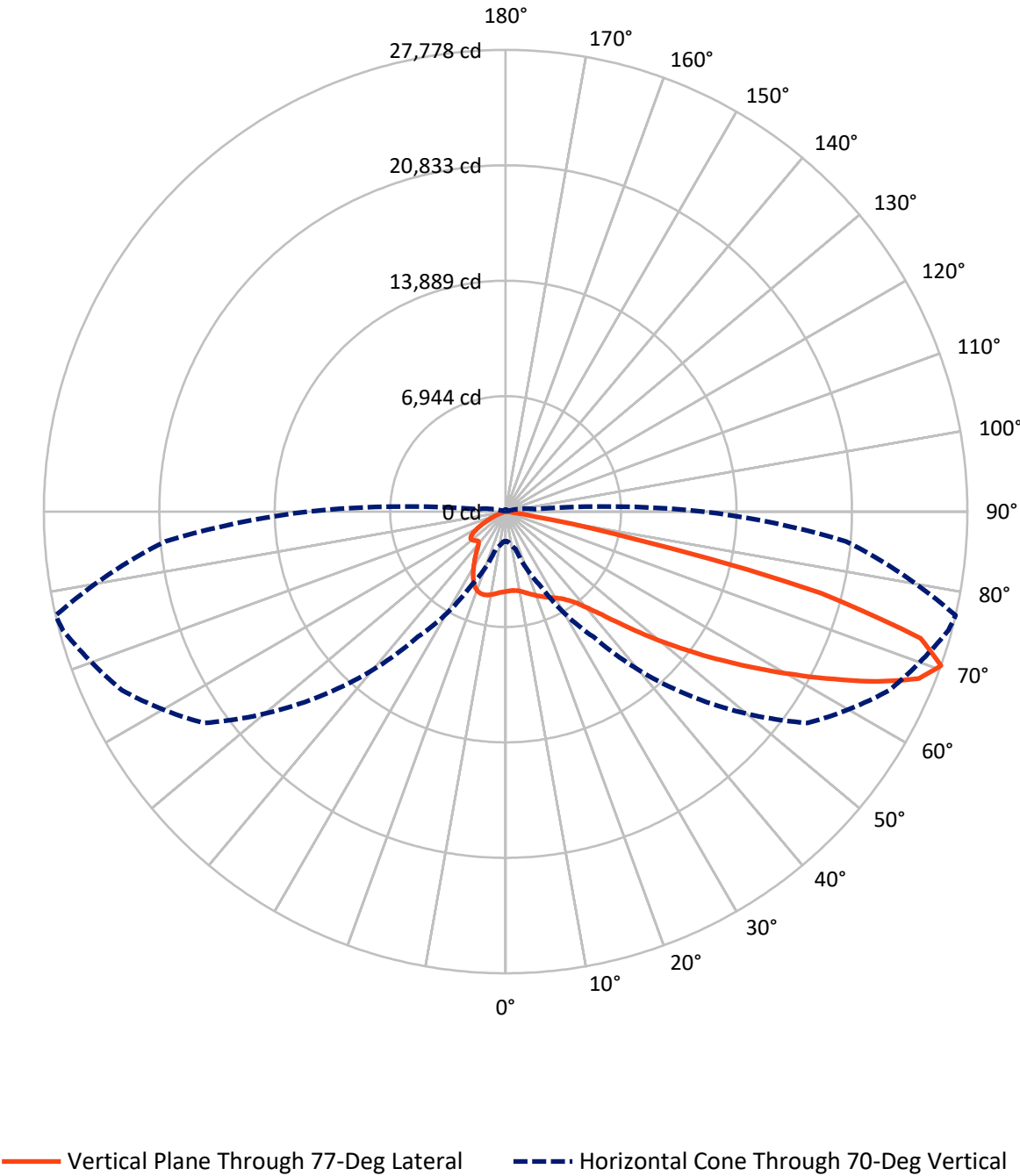
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3249.8	0.0	3249.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27579.1	0.0	27579.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	30828.9	0.0	30828.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.4	1.3
10°-20°	983.8	3.2
20°-30°	1521.7	4.9
30°-40°	2761.2	9.0
40°-50°	5212.2	16.9
50°-60°	7531.1	24.4
60°-70°	8016.7	26.0
70°-80°	4248.3	13.8
80°-90°	139.5	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°	30828.9	100.0
0°-180°	30828.9	100.0

Coefficient of Utilization



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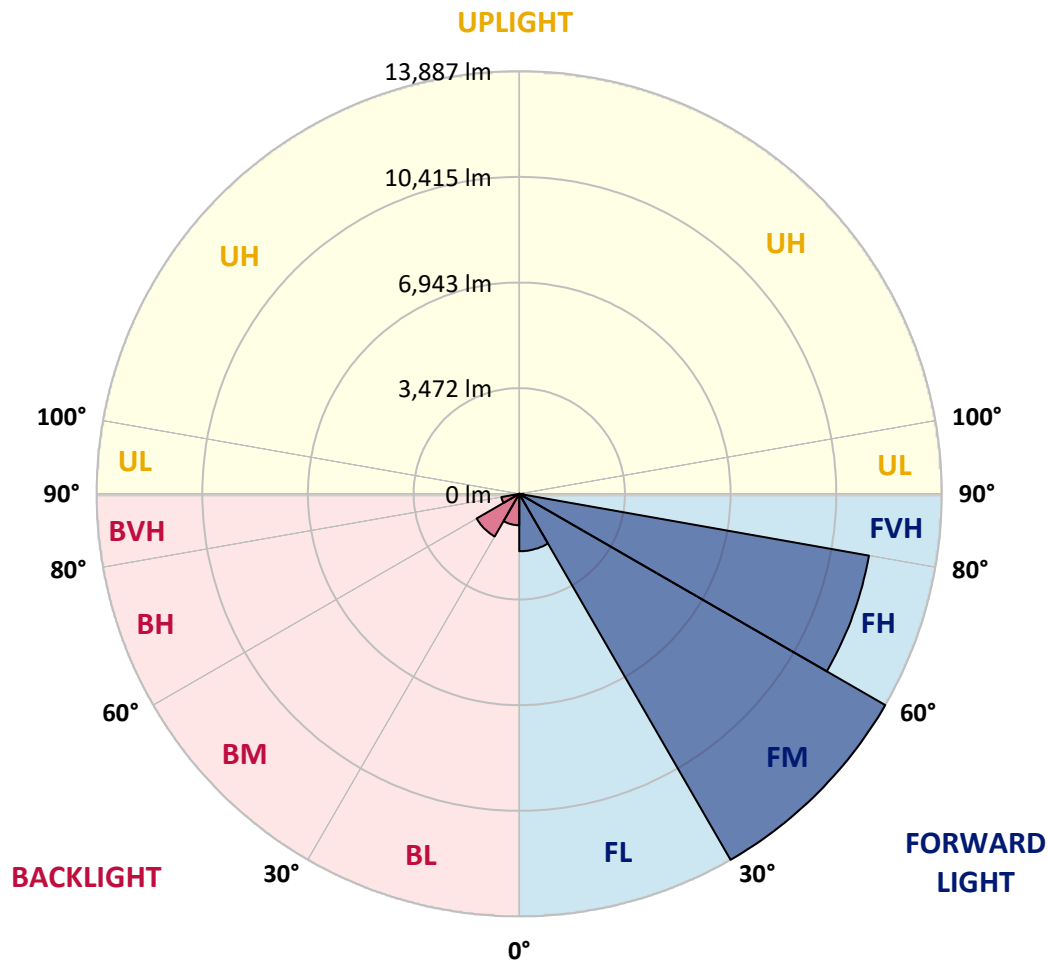
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1887.5	6.1			
FM	(30°-60°)	13886.7	45.0			
FH	(60°-80°)	11669.2	37.9			G4/12000
FVH	(80°-90°)	135.7	0.4			G2/225
BL	(0°-30°)	1032.5	3.3	B3/2500		
BM	(30°-60°)	1617.8	5.2	B2/2500		
BH	(60°-80°)	595.8	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8
2.5°	4514.8	4555.6	4549.9	4577.0	4586.8	4625.7	4664.7	4717.3	4775.7	4773.7	4812.7
5°	4259.7	4300.6	4310.3	4347.3	4394.1	4454.4	4534.3	4639.4	4748.4	4765.9	4843.8
7.5°	3957.9	4000.8	4026.1	4100.1	4185.8	4310.3	4440.8	4594.6	4775.7	4801.0	4950.9
10°	3656.2	3695.1	3728.2	3833.4	3969.6	4154.6	4366.8	4588.7	4832.2	4869.1	5081.3
12.5°	3469.3	3506.3	3543.3	3634.8	3804.2	4030.0	4318.1	4616.0	4925.5	4978.1	5258.5
15°	3403.1	3436.2	3465.4	3547.2	3704.9	3961.8	4308.4	4672.5	5044.3	5114.4	5472.7
17.5°	3412.8	3430.4	3449.8	3512.2	3665.9	3930.7	4325.9	4769.8	5184.4	5246.8	5686.8
20°	3469.3	3479.1	3481.0	3523.8	3660.1	3926.8	4361.0	4863.3	5316.9	5400.6	5899.0
22.5°	3541.4	3545.3	3541.4	3570.6	3697.1	3956.0	4407.7	4976.2	5464.9	5542.7	6113.2
25°	3878.2	3804.2	3710.7	3654.2	3759.4	4012.5	4477.8	5128.1	5626.4	5702.4	6321.5
27.5°	4923.6	4711.4	4376.5	4000.8	3887.9	4094.3	4575.1	5281.8	5790.0	5858.1	6545.3
30°	6621.3	6342.9	5774.4	4927.5	4300.6	4265.5	4701.7	5435.7	5963.2	6037.2	6784.8
32.5°	8322.8	8254.7	7598.6	6426.6	5229.2	4647.1	4911.9	5644.0	6192.9	6251.4	7108.0
35°	10043.9	9905.6	9368.3	8209.9	6660.2	5424.0	5262.3	5916.5	6494.7	6560.9	7579.2
37.5°	11361.9	11278.2	10945.3	9991.3	8357.8	6623.2	5862.0	6339.0	6932.8	7006.8	8182.7
40°	12526.1	12487.2	12374.3	11745.5	10256.0	8192.4	6794.5	6993.2	7540.2	7627.8	8922.5
42.5°	13441.1	13532.7	13596.9	13421.7	12212.7	9983.5	8048.3	7912.1	8387.1	8476.6	9864.8
45°	14377.6	14408.7	14667.6	14920.7	14155.7	11856.4	9461.8	8988.6	9440.4	9551.4	10993.9
47.5°	14979.1	15103.8	15559.3	16005.2	15789.1	13713.7	10980.3	10259.9	10661.0	10869.3	12259.4
50°	15023.9	15259.5	15886.4	16663.2	16978.6	15481.5	12631.3	11708.5	12134.8	12364.6	13610.6
52.5°	14278.4	14644.3	15615.8	16752.8	17621.1	16978.6	14338.6	13156.9	13703.9	14003.8	15012.3
55°	10947.2	11426.2	14597.6	16266.0	17646.4	18113.6	16001.3	14665.7	15452.3	15791.0	16526.9
57.5°	9537.7	9779.1	11476.7	15421.1	17177.2	18571.2	17504.2	16102.5	17354.4	17774.8	17957.9
60°	7935.4	8252.8	9625.3	14038.8	16540.5	18615.9	18832.0	17955.9	19416.1	19889.2	19270.1
62.5°	5392.8	5737.4	7102.1	11663.7	15670.3	18594.5	19920.4	19863.9	21707.6	22215.6	20381.7
65°	3340.8	3557.0	4456.4	9524.1	14453.5	18617.9	21059.2	22180.6	24125.5	24641.5	21242.2
67.5°	2640.0	2739.2	3208.5	7312.5	12356.8	18092.2	22196.2	24359.1	26401.4	26810.3	21505.1
70°	1773.6	1833.9	2334.3	4902.2	9193.1	15666.4	22174.7	25453.3	27573.4	27777.9	20547.3
72.5°	934.5	981.2	1364.8	2270.1	5552.4	11136.1	18691.8	24145.0	26407.3	26099.7	17562.7
75°	467.3	545.1	918.9	1152.5	2371.2	6210.5	11607.2	19036.4	20784.7	19593.3	11268.4
77.5°	354.3	428.3	759.3	759.3	825.4	2090.9	4915.8	10382.6	9576.7	7974.4	3307.7
80°	225.8	292.0	663.9	574.3	344.6	531.5	1281.0	2908.6	2034.5	1547.7	601.6
82.5°	132.4	190.8	552.9	379.7	192.7	196.6	362.1	619.1	527.6	410.8	184.9
85°	52.6	124.6	379.7	150.0	76.0	48.7	109.1	132.4	109.1	81.8	46.7
87.5°	0.0	29.2	66.2	0.0	5.8	3.9	7.8	9.7	9.7	7.8	15.6
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°	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8	4808.8
2.5°	4830.2	4834.1	4845.8	4847.7	4820.5	4785.4	4771.8	4765.9	4742.6	4740.6	4744.5
5°	4888.5	4906.1	4888.5	4838.0	4717.3	4547.9	4419.4	4314.2	4218.9	4189.7	4172.2
7.5°	5005.4	5022.9	4970.3	4771.8	4468.1	4131.3	3827.6	3613.3	3420.6	3348.6	3319.4
10°	5172.9	5196.1	5030.7	4629.6	4092.3	3551.1	3037.1	2674.9	2392.7	2277.9	2229.2
12.5°	5383.1	5392.8	5063.8	4413.5	3603.7	2830.7	2102.6	1715.2	1464.0	1370.6	1341.4
15°	5614.7	5601.1	5067.7	4119.6	2937.9	2001.4	1372.6	1127.2	1026.0	994.9	994.9
17.5°	5858.1	5801.7	4989.8	3695.1	2207.7	1368.7	1018.2	959.8	942.3	934.5	932.5
20°	6097.6	5971.0	4847.7	3140.3	1584.8	1022.1	924.8	907.2	897.5	893.6	889.7
22.5°	6315.6	6099.6	4604.3	2495.9	1150.6	903.3	874.1	858.5	841.0	833.2	831.3
25°	6527.8	6173.5	4261.6	1894.3	920.9	844.9	821.5	792.3	769.1	759.3	755.4
27.5°	6734.2	6220.2	3833.4	1401.8	821.5	790.4	747.6	706.7	689.2	685.3	681.4
30°	6954.2	6235.8	3346.6	1045.5	761.3	722.3	660.0	613.3	603.5	605.5	605.5
32.5°	7222.9	6259.2	2856.1	856.6	710.6	640.5	566.5	517.8	510.0	517.8	515.9
35°	7544.1	6305.9	2382.9	788.4	665.8	556.8	476.9	436.1	428.3	434.2	432.2
37.5°	7980.2	6381.9	1941.0	774.9	628.8	486.7	401.1	368.0	368.0	369.9	368.0
40°	8560.4	6584.3	1545.8	765.2	609.4	434.2	338.8	325.1	331.0	334.9	334.9
42.5°	9267.0	7014.6	1279.1	753.5	587.9	410.8	307.6	301.8	311.5	315.4	315.4
45°	10059.5	7559.7	1185.6	734.0	568.5	426.4	294.0	286.2	297.9	299.8	301.8
47.5°	10879.0	8093.1	1173.9	712.6	549.0	449.8	290.1	272.5	286.2	288.1	290.1
50°	11708.5	8441.6	1185.6	679.5	517.8	449.8	292.0	258.9	270.6	276.4	278.4
52.5°	12543.6	8601.3	1177.8	607.4	463.4	422.5	292.0	247.2	258.9	262.8	262.8
55°	13353.5	8570.1	1059.1	500.3	393.3	373.8	284.2	237.5	245.3	247.2	247.2
57.5°	13994.0	8135.9	839.1	389.4	319.3	311.5	258.9	225.8	231.6	229.7	229.7
60°	14328.9	7182.0	599.6	299.8	251.1	245.3	227.8	210.2	214.1	204.4	202.4
62.5°	14332.8	5920.4	401.1	237.5	200.5	194.6	194.6	188.8	184.9	165.4	159.6
65°	14027.1	4520.7	266.7	188.8	161.5	151.9	163.5	161.5	148.0	120.7	116.8
67.5°	13334.1	2963.2	202.4	148.0	124.6	118.8	130.5	136.3	126.6	101.3	99.3
70°	11909.0	1725.0	167.4	114.9	93.5	87.6	105.2	116.8	105.2	81.8	77.9
72.5°	9892.1	930.6	136.3	85.7	64.3	58.4	83.7	95.4	83.7	60.4	58.4
75°	6418.9	498.4	105.2	56.5	33.1	37.0	62.3	70.1	58.4	38.9	35.1
77.5°	2155.2	220.0	66.2	27.3	15.6	15.6	37.0	42.8	27.3	13.6	11.7
80°	480.8	91.5	27.3	11.7	5.8	5.8	7.8	7.8	3.9	0.0	0.0
82.5°	157.6	37.0	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.4	13.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.4	1.9	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)