

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: P968979

Luminaire Tested: **NAV-SB5C-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27232.2 lumens
Efficiency: N/A
Efficacy: 109.1 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): 249.5
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



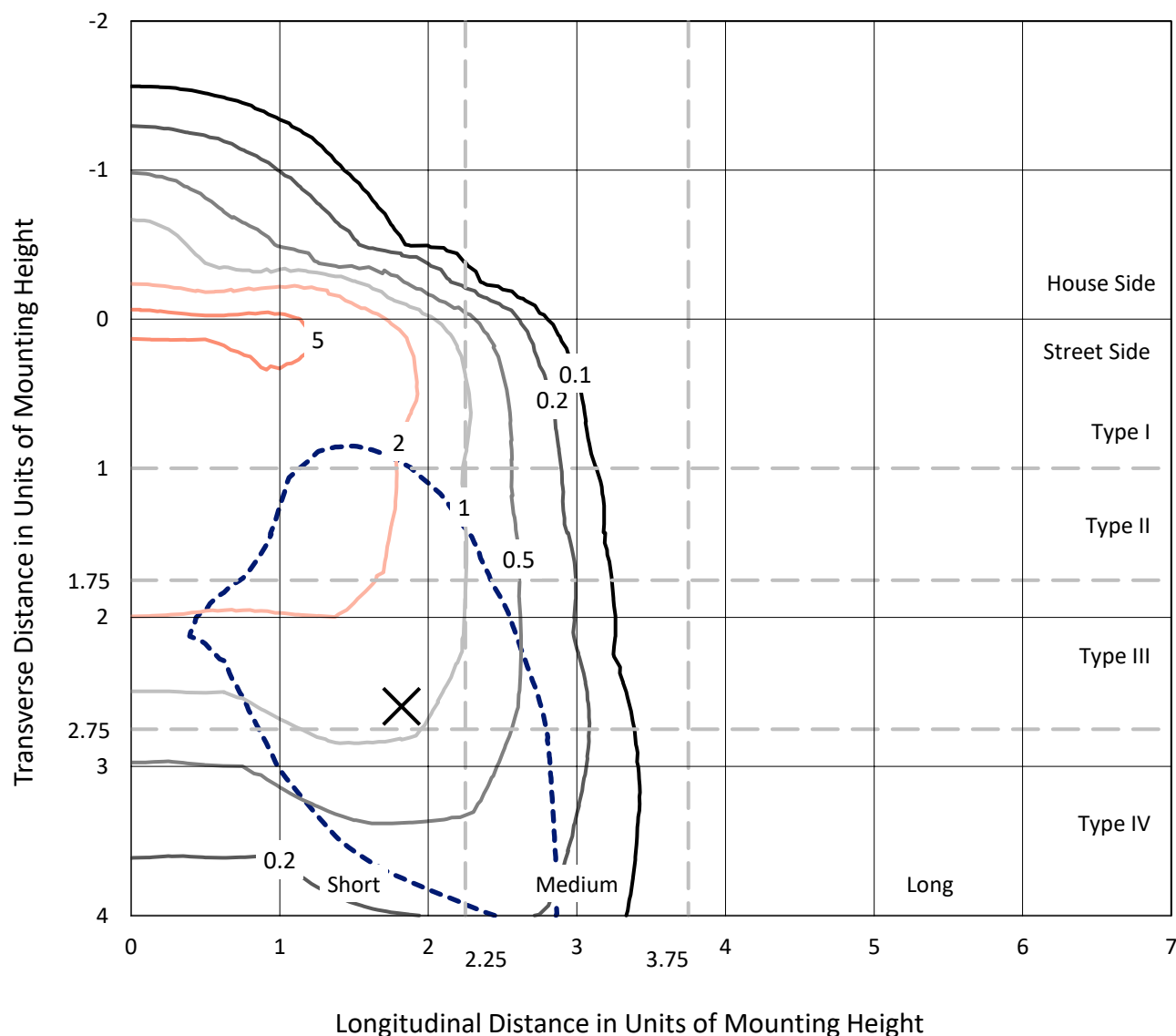
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

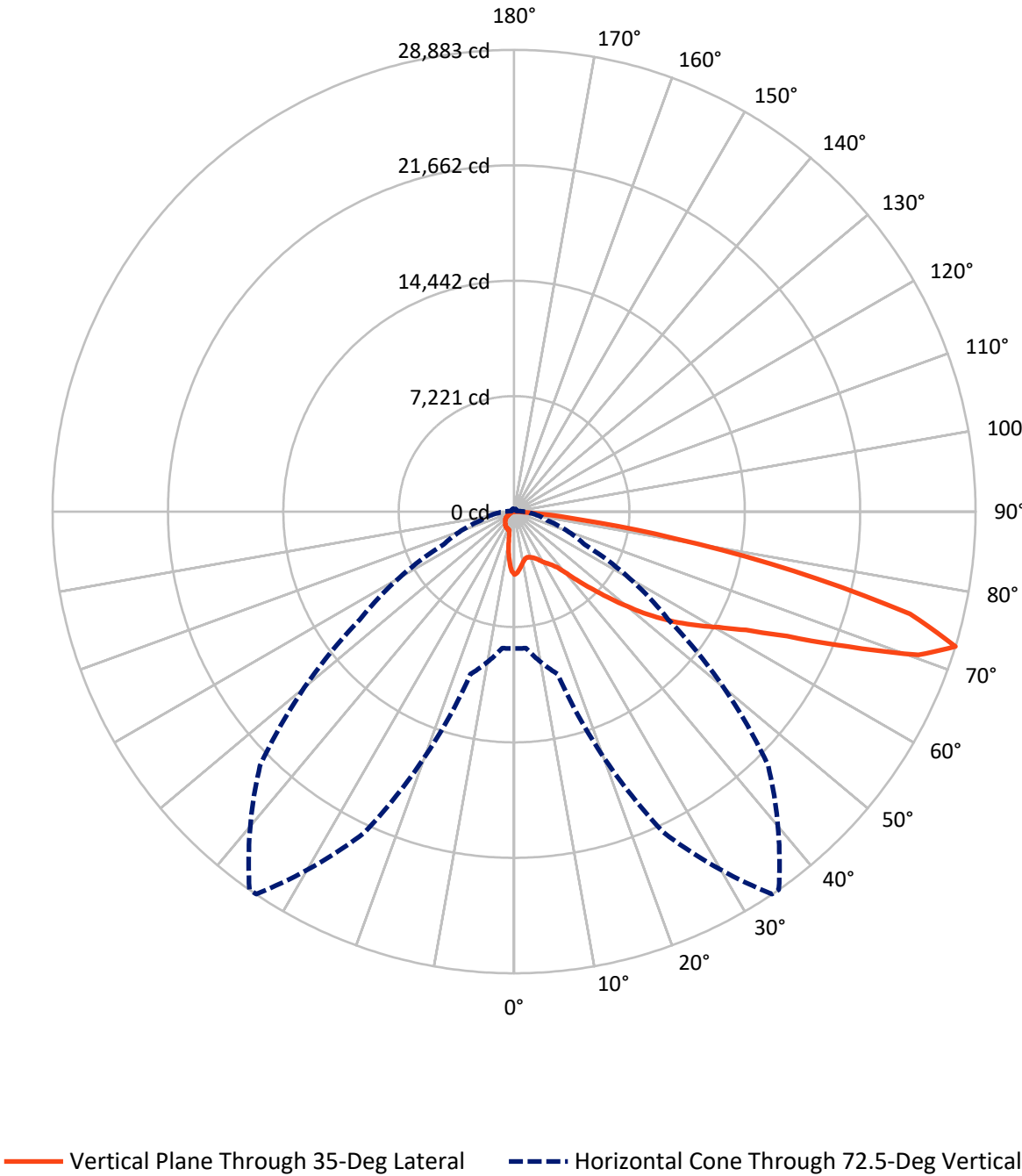


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

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	3064.8	0.0	3064.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24167.3	0.0	24167.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	27232.2	0.0	27232.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	1.2
10°-20°	758.7	2.8
20°-30°	1232.5	4.5
30°-40°	2056.5	7.6
40°-50°	3890.9	14.3
50°-60°	6182.6	22.7
60°-70°	7648.3	28.1
70°-80°	4754.2	17.5
80°-90°	384.2	1.4
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°	27232.2	100.0
0°-180°	27232.2	100.0

Coefficient of Utilization



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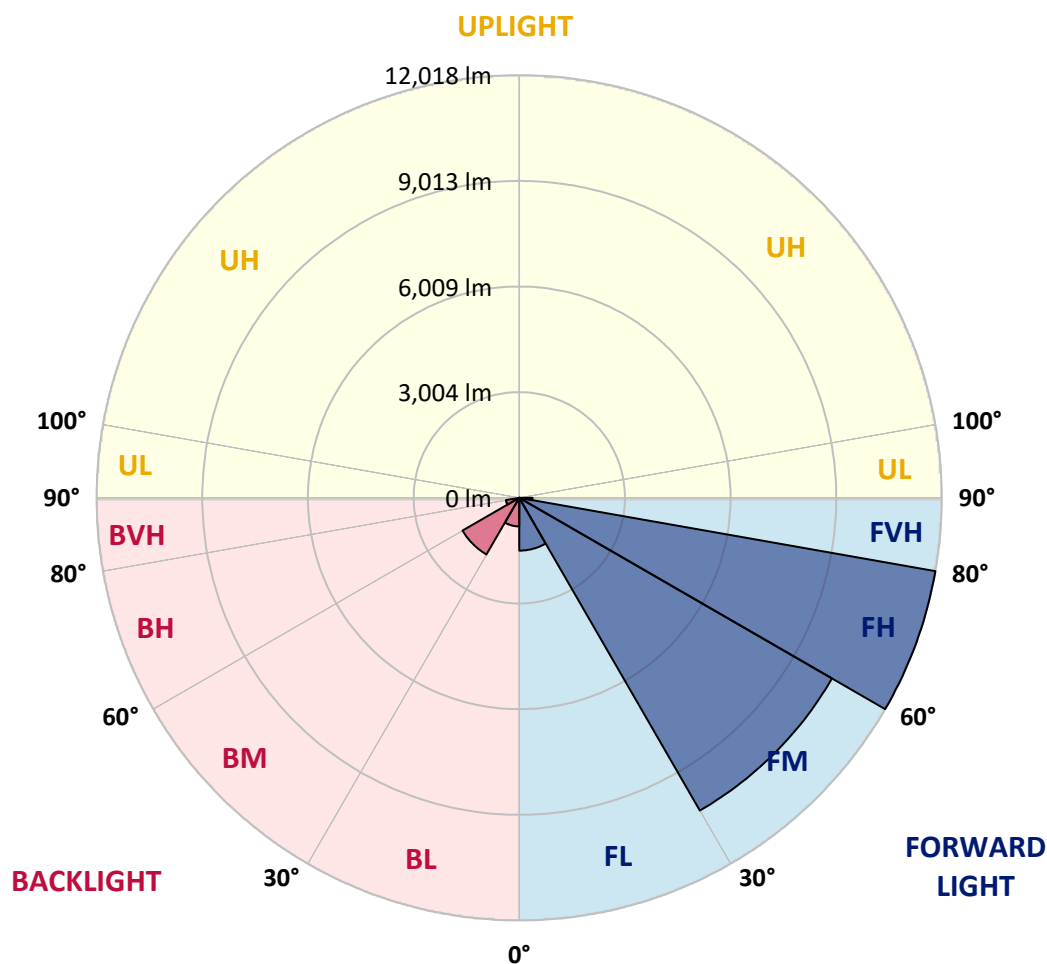
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.2	5.5			
FM	(30°-60°)	10269.3	37.7			
FH	(60°-80°)	12017.9	44.1			G5
FVH	(80°-90°)	379.0	1.4			G3/500
BL	(0°-30°)	814.4	3.0	B2/1000		
BM	(30°-60°)	1860.6	6.8	B2/2500		
BH	(60°-80°)	384.6	1.4	B1/500		G1/500
BVH	(80°-90°)	5.2	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°	34°	35°	45°	55°	65°	75°	85°
0°	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9
2.5°	3771.3	3803.2	3809.2	3819.2	3819.2	3831.1	3851.1	3879.0	3924.9	3948.8	3964.8
5°	3476.0	3499.9	3529.8	3553.8	3599.7	3605.6	3683.4	3759.3	3865.1	3944.8	4000.8
7.5°	3178.6	3206.6	3246.5	3304.4	3364.3	3382.2	3499.9	3627.6	3795.2	3944.8	4038.6
10°	2969.1	2971.2	3007.0	3064.9	3160.7	3182.6	3326.3	3507.9	3717.4	3920.9	4074.6
12.5°	2851.3	2865.4	2881.4	2925.2	3017.0	3031.0	3184.7	3398.1	3639.6	3907.0	4116.5
15°	2851.3	2861.4	2871.3	2893.3	2967.2	2979.1	3114.8	3328.3	3599.7	3912.9	4184.4
17.5°	2881.4	2897.3	2889.3	2915.2	2993.1	3001.1	3120.8	3308.3	3597.6	3950.9	4288.1
20°	2953.1	2965.1	2949.1	2965.1	3042.9	3058.9	3182.6	3346.2	3631.6	4016.7	4417.8
22.5°	3066.9	3072.8	3034.9	3046.9	3126.8	3146.7	3290.4	3454.0	3713.4	4122.4	4591.4
25°	3210.6	3222.5	3164.7	3178.6	3254.5	3278.4	3444.0	3615.6	3843.1	4268.1	4812.9
27.5°	3376.1	3382.2	3332.3	3330.3	3428.0	3461.9	3629.6	3815.2	4016.7	4451.7	5092.2
30°	3565.8	3583.7	3535.8	3527.8	3651.6	3679.4	3845.1	4060.6	4272.1	4727.1	5489.3
32.5°	3715.4	3729.4	3701.4	3721.4	3847.1	3869.1	4106.5	4407.8	4673.2	5118.1	6030.1
35°	3930.9	3938.9	3875.0	3911.0	4054.6	4110.5	4463.7	4894.7	5178.0	5609.0	6736.4
37.5°	4711.1	4711.1	4439.7	4262.2	4399.8	4449.7	4952.5	5507.2	5800.6	6267.5	7626.3
40°	5790.6	5772.6	5375.5	5012.4	4994.4	5092.2	5648.9	6279.5	6604.7	7057.6	8628.0
42.5°	6941.9	6914.0	6373.2	6014.1	5954.2	5988.2	6453.1	7231.3	7562.4	8021.4	9705.5
45°	7963.5	7955.5	7460.8	6977.8	6870.1	6977.8	7456.8	8344.6	8582.1	9065.0	10781.1
47.5°	8819.6	8819.6	8458.4	8143.1	8087.2	8151.1	8815.6	9579.9	9557.8	10176.4	11828.6
50°	9805.3	9797.4	9454.1	9318.4	9376.3	9466.1	10380.0	10880.8	10567.5	11267.9	12764.4
52.5°	10495.7	10543.6	10425.9	10404.0	10699.3	10854.9	11968.3	12153.8	11471.4	12303.5	13464.8
55°	11042.4	11098.3	11234.0	11387.6	11956.3	12159.9	13506.7	13361.1	12227.6	13201.4	13867.8
57.5°	11816.6	11736.9	11946.4	12249.7	13169.5	13414.9	14997.3	14500.4	12836.3	13929.7	13911.8
60°	12756.4	12768.4	12804.3	13187.4	14380.6	14695.9	16465.9	15578.0	13227.3	14376.8	13424.9
62.5°	13885.9	13903.8	13977.6	14566.3	16006.9	16304.3	18030.3	16459.9	13406.9	14251.0	12167.8
65°	13808.0	13883.8	14707.9	16721.2	18479.2	18772.6	19856.0	17078.4	13135.6	13101.7	9907.0
67.5°	12578.9	12702.6	14081.3	19295.3	22206.5	22533.8	22062.9	17200.1	11964.3	10188.4	6463.0
70°	10966.6	11010.6	12668.7	21610.0	26522.6	26853.8	24038.3	15861.3	9078.9	5682.8	2895.3
72.5°	8564.2	8574.1	10519.7	22146.7	28865.1	28883.1	22487.9	11774.7	4882.7	2182.9	1005.6
75°	6117.8	6058.0	7045.6	17960.4	25395.2	25598.8	16859.0	5523.2	1865.7	1031.6	500.8
77.5°	3280.4	3346.2	3986.7	10651.3	17543.4	17890.6	9198.7	1592.3	949.8	702.3	331.3
80°	1013.6	1069.5	1634.3	4876.7	9937.0	10146.5	3410.1	708.4	662.5	500.8	217.5
82.5°	319.3	331.3	762.2	2049.3	4124.5	4220.2	987.7	401.1	452.9	331.3	127.7
85°	91.7	93.8	339.2	764.2	1019.7	1039.6	277.4	155.6	259.4	205.5	65.8
87.5°	9.9	31.9	127.7	127.7	89.8	87.8	29.9	33.9	73.8	25.9	12.0
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°	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9	3946.9
2.5°	3954.9	3956.8	3930.9	3887.0	3839.1	3799.2	3749.3	3709.4	3681.5	3673.5	3687.4
5°	3982.7	3968.8	3895.0	3761.2	3601.6	3464.0	3310.3	3188.6	3108.8	3074.9	3086.9
7.5°	4024.7	3984.8	3823.1	3559.7	3254.5	2983.1	2707.7	2494.2	2358.5	2290.7	2300.7
10°	4060.6	3980.8	3703.4	3268.4	2801.5	2390.5	2019.4	1761.9	1618.3	1550.4	1552.4
12.5°	4094.6	3978.7	3547.8	2923.2	2290.7	1787.9	1442.7	1315.0	1275.0	1261.1	1257.1
15°	4158.3	3984.8	3352.3	2528.2	1781.9	1350.8	1225.2	1223.1	1231.1	1227.1	1225.2
17.5°	4246.2	3990.7	3130.8	2109.1	1374.8	1191.3	1185.2	1203.2	1215.1	1209.2	1207.2
20°	4359.9	4014.7	2895.3	1694.1	1181.3	1151.4	1165.3	1181.3	1191.3	1181.3	1179.3
22.5°	4519.5	4056.6	2637.9	1360.9	1119.4	1127.4	1139.4	1157.3	1167.3	1153.3	1151.4
25°	4715.1	4122.4	2384.5	1183.3	1089.5	1099.4	1117.5	1137.3	1149.3	1135.4	1133.3
27.5°	4968.5	4228.2	2151.1	1143.4	1059.5	1065.5	1091.5	1121.5	1137.3	1119.4	1119.4
30°	5335.6	4401.8	1949.4	1161.3	1041.6	1027.7	1063.5	1105.5	1123.4	1107.4	1105.5
32.5°	5822.5	4647.2	1825.7	1189.2	1033.6	983.7	1017.6	1071.5	1101.5	1091.5	1091.5
35°	6461.0	5020.3	1777.9	1221.2	1027.7	937.9	961.8	1019.7	1071.5	1081.5	1081.5
37.5°	7235.3	5539.2	1791.8	1235.1	1009.6	900.0	911.8	961.8	1029.6	1061.6	1069.5
40°	8115.2	6143.7	1871.6	1221.2	989.7	868.0	870.0	907.9	967.8	1015.7	1031.6
42.5°	9023.1	6850.2	2019.4	1169.3	971.7	840.1	834.0	860.0	900.0	933.9	947.8
45°	9887.2	7576.5	2165.0	1097.5	949.8	812.1	798.2	808.1	816.1	830.0	838.0
47.5°	10641.3	8087.2	2123.1	1031.6	919.8	780.2	756.2	752.2	728.3	726.3	724.4
50°	11162.1	8199.0	1885.6	965.8	876.0	744.3	706.3	682.4	640.5	620.5	622.6
52.5°	11327.8	7758.0	1540.5	900.0	804.1	696.4	642.5	604.6	552.7	534.7	532.8
55°	11108.2	6894.0	1231.1	820.1	704.4	632.5	572.7	522.8	480.9	458.9	458.9
57.5°	10571.5	5794.5	973.7	726.3	598.6	560.7	500.8	451.0	415.0	393.1	389.1
60°	9681.5	4601.3	770.2	614.6	510.9	482.9	421.1	389.1	357.2	331.3	325.2
62.5°	8330.7	3284.4	604.6	486.9	427.0	395.0	359.2	335.2	297.4	261.4	255.4
65°	6501.0	2009.3	466.9	357.2	343.2	327.3	305.2	283.3	237.5	201.5	195.6
67.5°	4100.5	951.8	333.2	269.4	271.4	263.4	253.4	235.4	201.5	169.6	165.6
70°	1805.8	460.9	219.5	205.5	201.5	201.5	209.5	203.6	171.6	141.7	135.7
72.5°	614.6	247.4	163.6	155.6	145.7	143.7	175.6	169.6	137.7	109.8	103.7
75°	321.2	165.6	119.7	111.7	87.8	105.8	139.7	131.7	97.8	71.9	65.8
77.5°	209.5	117.8	81.8	71.9	49.9	69.8	103.7	91.7	57.9	35.9	31.9
80°	131.7	77.8	47.9	33.9	24.0	37.9	55.9	39.9	21.9	8.0	5.9
82.5°	69.8	39.9	17.9	12.0	9.9	12.0	13.9	9.9	4.0	0.0	0.0
85°	28.0	13.9	5.9	4.0	1.9	0.0	4.0	1.9	0.0	0.0	0.0
87.5°	9.9	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)