

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: McGRAW-EDISON

Report Number: P943648

Luminaire Tested: **GALN-SB8B-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943648
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: McGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA 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: 28480 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 292.8
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

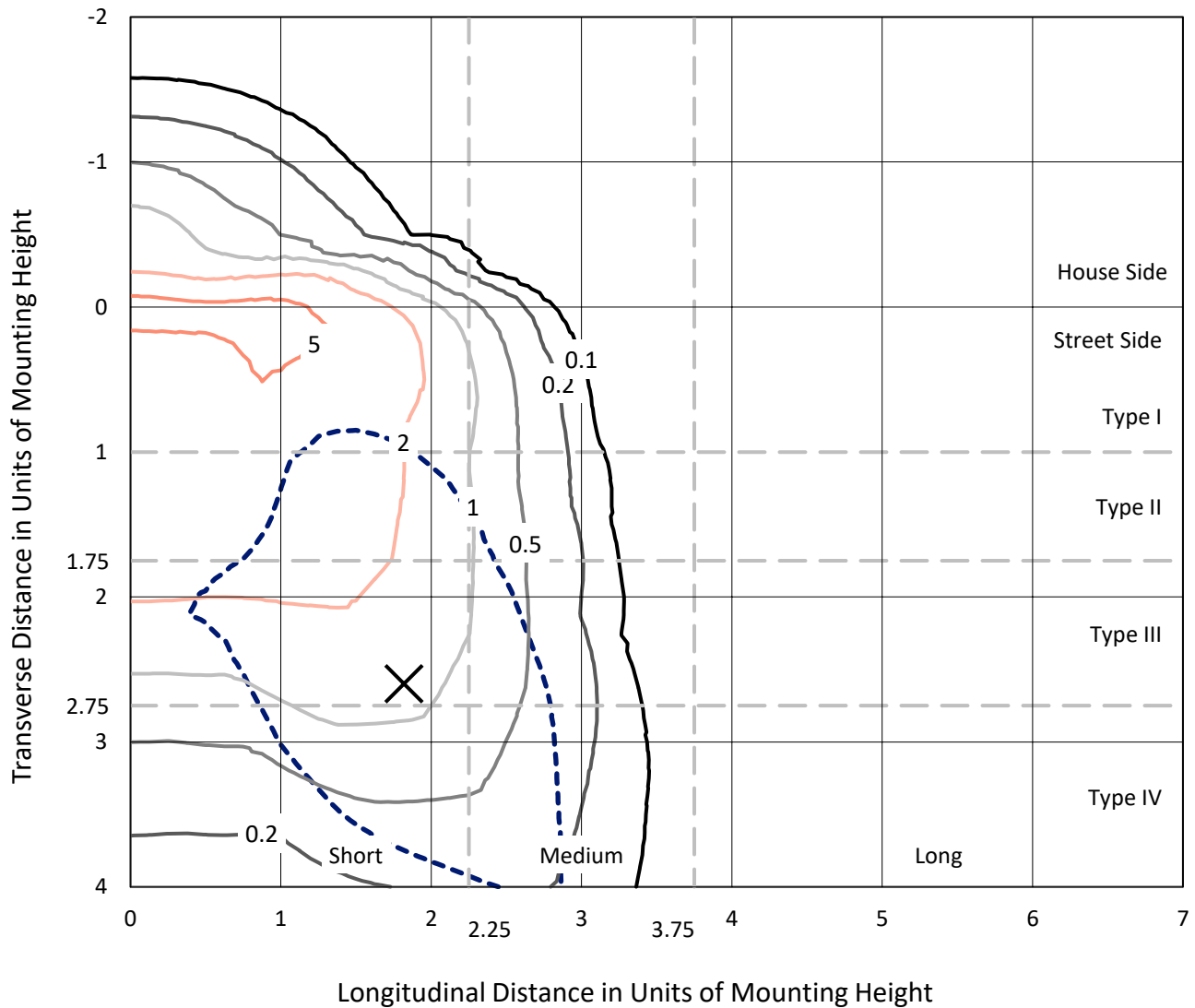


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Iso-Footcandle Lines of Horizontal Illumination

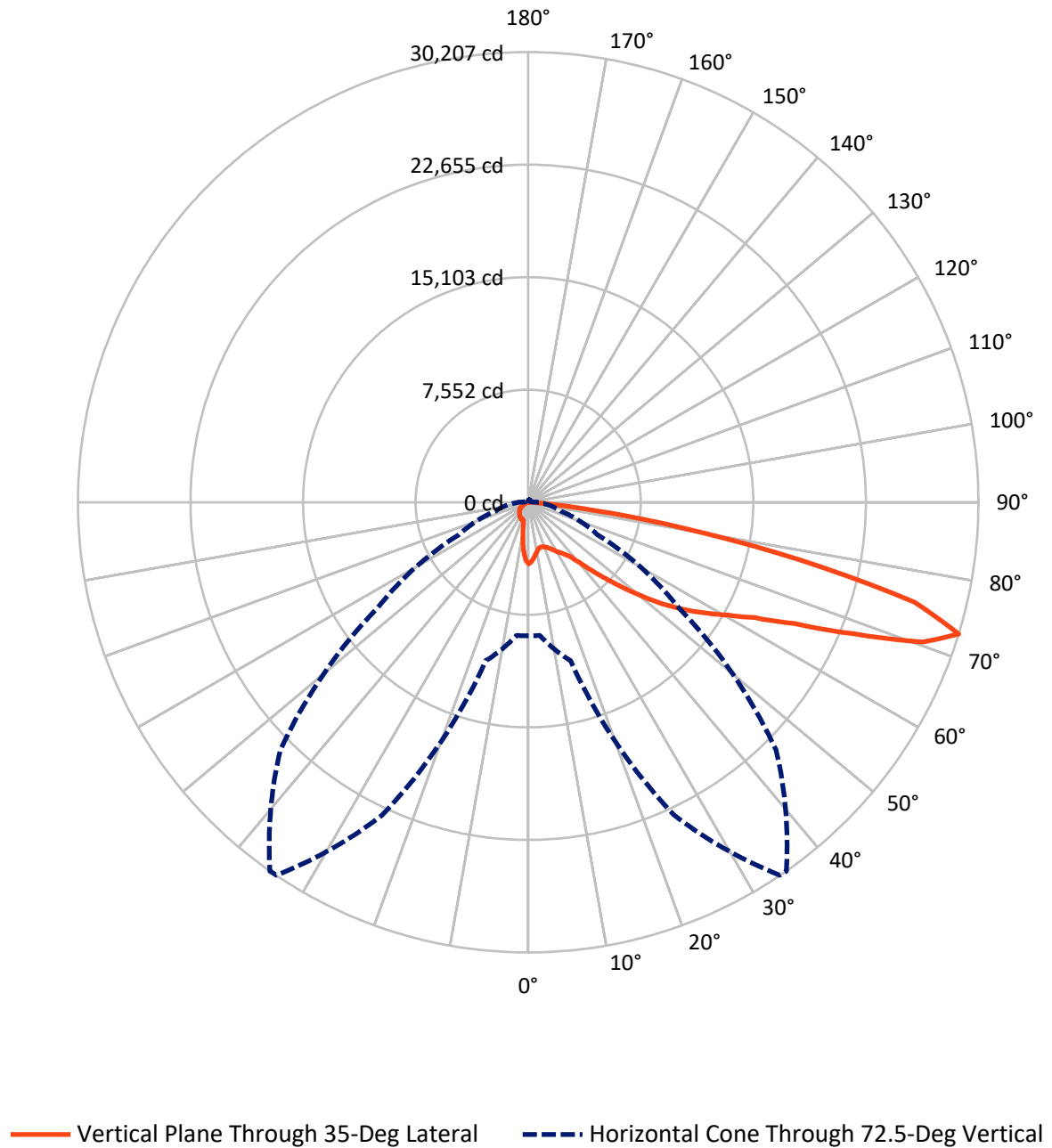
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3205.3	0.0	3205.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25274.7	0.0	25274.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	28480.0	0.0	28480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.2	1.2
10°-20°	793.5	2.8
20°-30°	1289.0	4.5
30°-40°	2150.7	7.6
40°-50°	4069.2	14.3
50°-60°	6465.9	22.7
60°-70°	7998.7	28.1
70°-80°	4972.1	17.5
80°-90°	401.8	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°	28480.0	100.0
0°-180°	28480.0	100.0

Coefficient of Utilization



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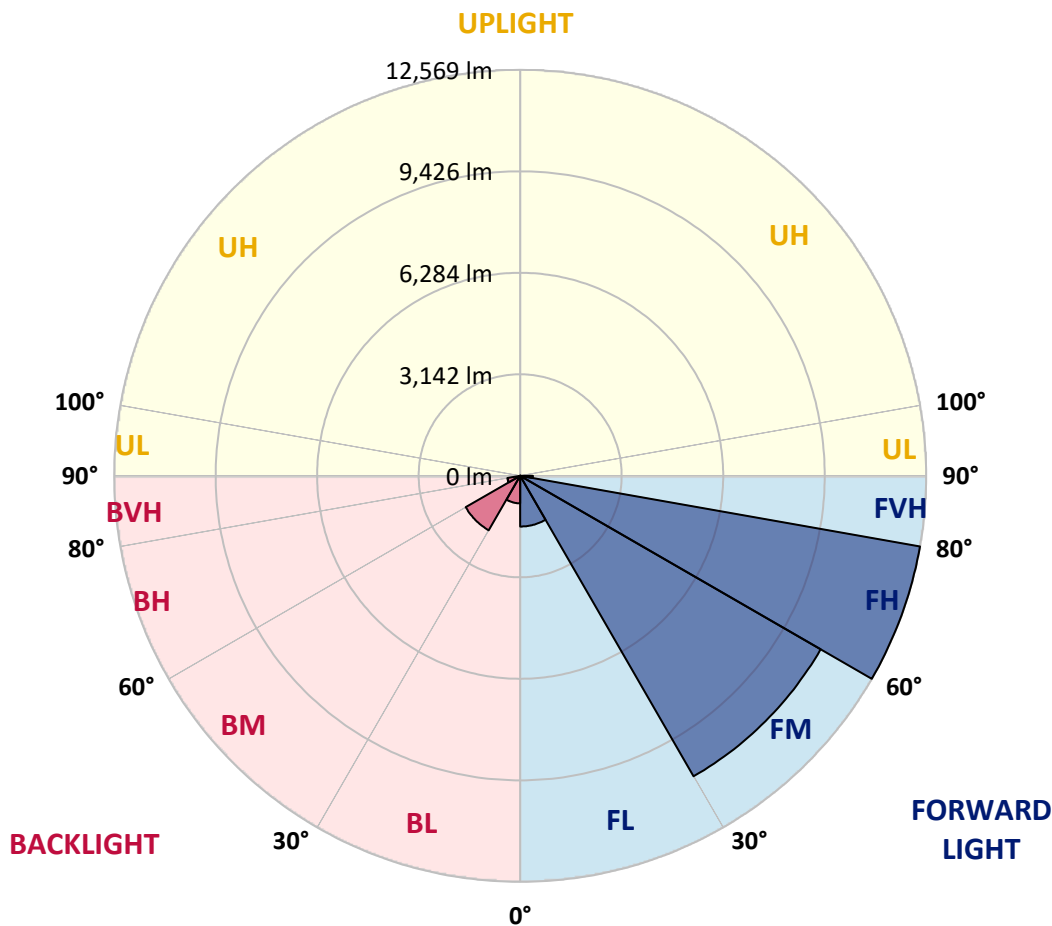
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1570.0	5.5			
FM	(30°-60°)	10739.8	37.7			
FH	(60°-80°)	12568.6	44.1			G5
FVH	(80°-90°)	396.4	1.4			G3/500
BL	(0°-30°)	851.7	3.0	B2/1000		
BM	(30°-60°)	1945.9	6.8	B2/2500		
BH	(60°-80°)	402.2	1.4	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7
2.5°	3944.1	3977.5	3983.7	3994.2	3994.2	4006.7	4027.5	4056.8	4104.8	4129.8	4146.5
5°	3635.2	3660.3	3691.6	3716.6	3764.6	3770.9	3852.2	3931.5	4042.1	4125.6	4184.1
7.5°	3324.3	3353.5	3395.2	3455.8	3518.4	3537.1	3660.3	3793.8	3969.1	4125.6	4223.7
10°	3105.2	3107.3	3144.8	3205.3	3305.5	3328.5	3478.7	3668.6	3887.7	4100.6	4261.3
12.5°	2982.0	2996.7	3013.4	3059.3	3155.3	3169.9	3330.5	3553.8	3806.3	4086.0	4305.1
15°	2982.0	2992.5	3002.9	3025.9	3103.1	3115.6	3257.5	3480.8	3764.6	4092.2	4376.0
17.5°	3013.4	3030.0	3021.7	3048.8	3130.2	3138.6	3263.8	3459.9	3762.5	4131.9	4484.6
20°	3088.5	3101.0	3084.3	3101.0	3182.4	3199.1	3328.5	3499.6	3798.0	4200.7	4620.2
22.5°	3207.4	3213.7	3174.0	3186.6	3270.0	3290.9	3441.1	3612.3	3883.6	4311.3	4801.7
25°	3357.7	3370.2	3309.7	3324.3	3403.6	3428.6	3601.8	3781.3	4019.2	4463.7	5033.4
27.5°	3530.9	3537.1	3485.0	3482.9	3585.1	3620.6	3795.9	3990.0	4200.7	4655.7	5325.5
30°	3729.1	3747.9	3697.8	3689.5	3818.9	3848.1	4021.3	4246.7	4467.9	4943.6	5740.8
32.5°	3885.6	3900.2	3871.0	3891.9	4023.4	4046.3	4294.7	4609.8	4887.3	5352.7	6306.3
35°	4111.0	4119.4	4052.6	4090.1	4240.4	4298.8	4668.2	5118.9	5415.3	5866.0	7045.1
37.5°	4927.0	4927.0	4643.1	4457.4	4601.4	4653.6	5179.5	5759.6	6066.4	6554.7	7975.8
40°	6055.9	6037.1	5621.9	5242.1	5223.3	5325.5	5907.8	6567.2	6907.3	7381.0	9023.4
42.5°	7260.0	7230.8	6665.3	6289.6	6227.0	6262.5	6748.7	7562.6	7909.0	8389.0	10150.2
45°	8328.5	8320.1	7802.6	7297.6	7184.9	7297.6	7798.4	8727.0	8975.4	9480.4	11275.0
47.5°	9223.7	9223.7	8846.0	8516.3	8457.8	8524.6	9219.5	10018.8	9995.8	10642.7	12370.6
50°	10254.6	10246.2	9887.3	9745.4	9805.9	9899.8	10855.6	11379.4	11051.7	11784.2	13349.3
52.5°	10976.6	11026.7	10903.6	10880.6	11189.5	11352.2	12516.7	12710.7	11997.1	12867.3	14081.8
55°	11548.4	11606.8	11748.7	11909.4	12504.2	12717.0	14125.6	13973.3	12788.0	13806.3	14503.3
57.5°	12358.1	12274.6	12493.7	12810.9	13772.9	14029.6	15684.5	15164.8	13424.4	14568.0	14549.2
60°	13341.0	13353.5	13391.0	13791.7	15039.6	15369.3	17220.3	16291.7	13833.5	15035.5	14040.0
62.5°	14522.1	14540.9	14618.1	15233.7	16740.4	17051.3	18856.4	17214.1	14021.3	14904.0	12725.4
65°	14440.7	14520.0	15381.9	17487.5	19325.9	19632.7	20765.8	17861.0	13737.5	13702.0	10361.0
67.5°	13155.2	13284.6	14726.6	20179.4	23224.1	23566.3	23073.8	17988.3	12512.5	10655.2	6759.2
70°	11469.1	11515.0	13249.1	22600.1	27737.9	28084.3	25139.8	16588.0	9495.0	5943.2	3028.0
72.5°	8956.6	8967.0	11001.7	23161.5	30187.8	30206.6	23518.3	12314.3	5106.4	2283.0	1051.8
75°	6398.2	6335.6	7368.5	18783.4	26558.8	26771.7	17631.4	5776.3	1951.2	1078.9	523.8
77.5°	3430.7	3499.6	4169.4	11139.4	18347.2	18710.3	9620.2	1665.3	993.3	734.6	346.4
80°	1060.1	1118.5	1709.1	5100.2	10392.3	10611.4	3566.4	740.8	692.8	523.8	227.5
82.5°	333.9	346.4	797.2	2143.2	4313.4	4413.6	1033.0	419.4	473.7	346.4	133.6
85°	96.0	98.1	354.8	799.2	1066.4	1087.2	290.1	162.8	271.3	214.9	68.9
87.5°	10.4	33.4	133.6	133.6	93.9	91.8	31.3	35.5	77.2	27.1	12.5
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°	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7	4127.7
2.5°	4136.1	4138.1	4111.0	4065.1	4015.0	3973.3	3921.1	3879.4	3850.2	3841.8	3856.4
5°	4165.3	4150.7	4073.4	3933.6	3766.7	3622.7	3462.0	3334.7	3251.2	3215.8	3228.3
7.5°	4209.1	4167.4	3998.3	3722.9	3403.6	3119.8	2831.8	2608.5	2466.6	2395.7	2406.1
10°	4246.7	4163.2	3873.1	3418.2	2929.9	2500.0	2111.9	1842.7	1692.4	1621.5	1623.5
12.5°	4282.1	4161.1	3710.3	3057.2	2395.7	1869.8	1508.8	1375.2	1333.5	1318.9	1314.7
15°	4348.9	4167.4	3505.8	2644.0	1863.5	1412.8	1281.3	1279.2	1287.6	1283.4	1281.3
17.5°	4440.7	4173.6	3274.2	2205.8	1437.8	1245.8	1239.6	1258.3	1270.9	1264.6	1262.5
20°	4559.7	4198.7	3028.0	1771.7	1235.4	1204.1	1218.7	1235.4	1245.8	1235.4	1233.3
22.5°	4726.6	4242.5	2758.8	1423.2	1170.7	1179.0	1191.6	1210.3	1220.8	1206.2	1204.1
25°	4931.1	4311.3	2493.7	1237.5	1139.4	1149.8	1168.6	1189.5	1202.0	1187.4	1185.3
27.5°	5196.2	4421.9	2249.6	1195.7	1108.1	1114.4	1141.5	1172.8	1189.5	1170.7	1170.7
30°	5580.1	4603.5	2038.8	1214.5	1089.3	1074.7	1112.3	1156.1	1174.9	1158.2	1156.1
32.5°	6089.3	4860.2	1909.4	1243.7	1081.0	1028.8	1064.3	1120.6	1151.9	1141.5	1141.5
35°	6757.1	5250.4	1859.3	1277.1	1074.7	980.8	1005.8	1066.4	1120.6	1131.1	1131.1
37.5°	7566.8	5793.0	1874.0	1291.7	1055.9	941.2	953.7	1005.8	1076.8	1110.2	1118.5
40°	8487.0	6425.3	1957.4	1277.1	1035.1	907.8	909.8	949.5	1012.1	1062.2	1078.9
42.5°	9436.5	7164.0	2111.9	1222.9	1016.3	878.5	872.3	899.4	941.2	976.6	991.2
45°	10340.1	7923.6	2264.2	1147.7	993.3	849.3	834.7	845.2	853.5	868.1	876.5
47.5°	11128.9	8457.8	2220.4	1078.9	962.0	815.9	790.9	786.7	761.7	759.6	757.5
50°	11673.6	8574.7	1972.0	1010.0	916.1	778.4	738.7	713.7	669.9	649.0	651.1
52.5°	11846.8	8113.5	1611.0	941.2	841.0	728.3	672.0	632.3	578.0	559.3	557.2
55°	11617.3	7209.9	1287.6	857.7	736.6	661.5	598.9	546.7	502.9	480.0	480.0
57.5°	11055.9	6060.1	1018.4	759.6	626.0	586.4	523.8	471.6	434.1	411.1	406.9
60°	10125.2	4812.2	805.5	642.7	534.2	505.0	440.3	406.9	373.5	346.4	340.1
62.5°	8712.4	3434.9	632.3	509.2	446.6	413.2	375.6	350.6	310.9	273.4	267.1
65°	6798.8	2101.4	488.3	373.5	358.9	342.2	319.3	296.3	248.3	210.8	204.5
67.5°	4288.4	995.4	348.5	281.7	283.8	275.5	265.0	246.2	210.8	177.4	173.2
70°	1888.6	482.1	229.5	214.9	210.8	210.8	219.1	212.9	179.5	148.2	141.9
72.5°	642.7	258.8	171.1	162.8	152.3	150.3	183.6	177.4	144.0	114.8	108.5
75°	336.0	173.2	125.2	116.9	91.8	110.6	146.1	137.7	102.3	75.1	68.9
77.5°	219.1	123.1	85.6	75.1	52.2	73.0	108.5	96.0	60.5	37.6	33.4
80°	137.7	81.4	50.1	35.5	25.0	39.6	58.4	41.7	23.0	8.3	6.3
82.5°	73.0	41.7	18.8	12.5	10.4	12.5	14.6	10.4	4.2	0.0	0.0
85°	29.2	14.6	6.3	4.2	2.1	0.0	4.2	2.1	0.0	0.0	0.0
87.5°	10.4	2.1	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)