

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: P944168

Luminaire Tested: **GALN-SB9A-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944168
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-SB9A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA 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: 28694 lumens
Efficiency: N/A
Efficacy: 112.3 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

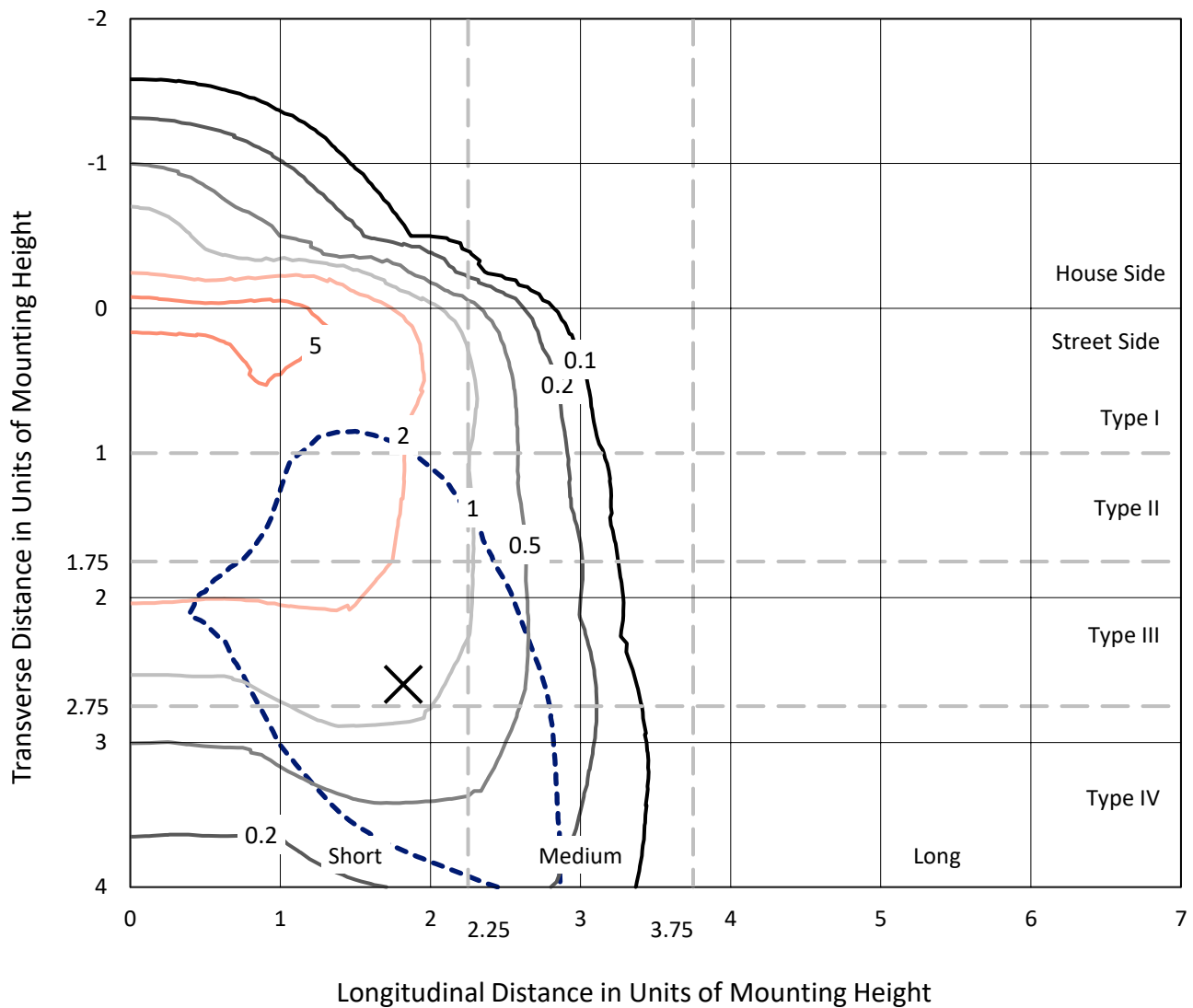
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

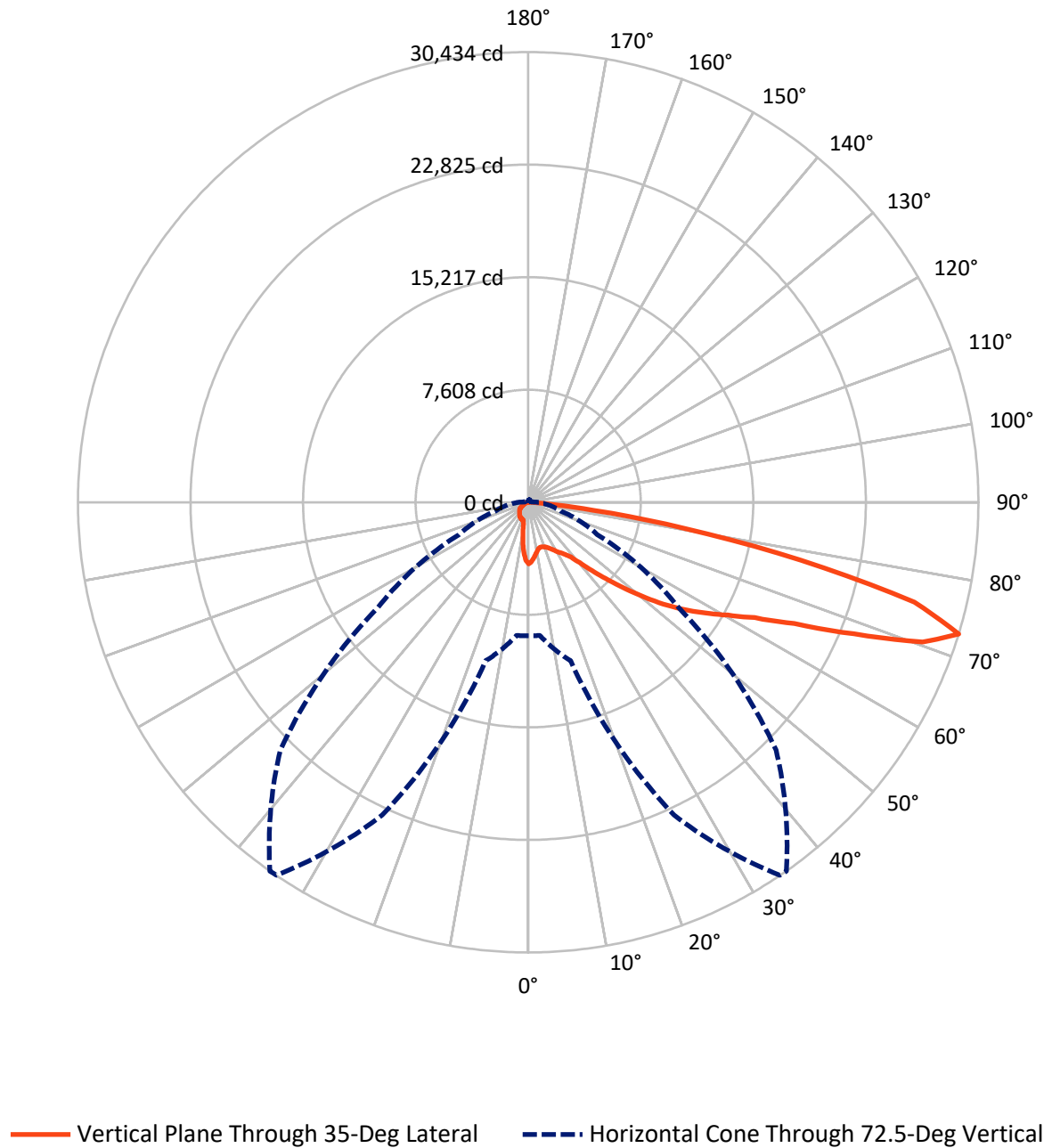
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3229.4	0.0	3229.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25464.6	0.0	25464.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	28694.0	0.0	28694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.7	1.2
10°-20°	799.5	2.8
20°-30°	1298.7	4.5
30°-40°	2166.8	7.6
40°-50°	4099.7	14.3
50°-60°	6514.4	22.7
60°-70°	8058.8	28.1
70°-80°	5009.4	17.5
80°-90°	404.8	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°	28694.0	100.0
0°-180°	28694.0	100.0

Coefficient of Utilization



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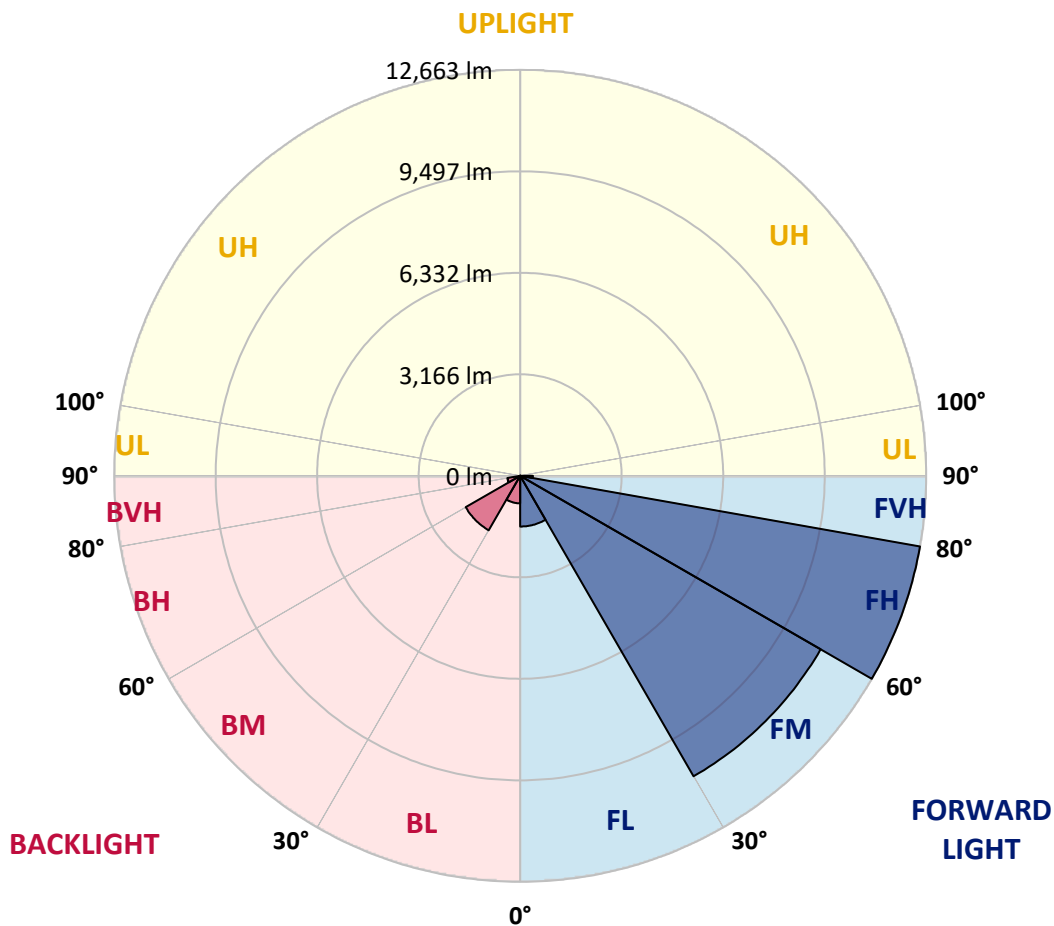
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1581.8	5.5			
FM	(30°-60°)	10820.5	37.7			
FH	(60°-80°)	12663.0	44.1			G5
FVH	(80°-90°)	399.3	1.4			G3/500
BL	(0°-30°)	858.1	3.0	B2/1000		
BM	(30°-60°)	1960.5	6.8	B2/2500		
BH	(60°-80°)	405.2	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°	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7
2.5°	3973.7	4007.3	4013.7	4024.2	4024.2	4036.8	4057.8	4087.2	4135.6	4160.8	4177.6
5°	3662.5	3687.8	3719.3	3744.5	3792.9	3799.2	3881.2	3961.1	4072.5	4156.6	4215.5
7.5°	3349.3	3378.7	3420.7	3481.7	3544.8	3563.7	3687.8	3822.3	3998.9	4156.6	4255.4
10°	3128.5	3130.6	3168.5	3229.4	3330.3	3353.5	3504.8	3696.2	3916.9	4131.4	4293.3
12.5°	3004.5	3019.2	3036.0	3082.2	3179.0	3193.7	3355.6	3580.5	3834.9	4116.7	4337.4
15°	3004.5	3015.0	3025.5	3048.6	3126.4	3139.0	3282.0	3507.0	3792.9	4123.0	4408.9
17.5°	3036.0	3052.8	3044.4	3071.7	3153.7	3162.1	3288.3	3485.9	3790.8	4162.9	4518.2
20°	3111.7	3124.3	3107.5	3124.3	3206.3	3223.1	3353.5	3525.9	3826.5	4232.3	4654.9
22.5°	3231.5	3237.8	3197.9	3210.5	3294.6	3315.6	3467.0	3639.4	3912.7	4343.7	4837.8
25°	3382.9	3395.5	3334.5	3349.3	3429.2	3454.4	3628.9	3809.7	4049.4	4497.2	5071.2
27.5°	3557.4	3563.7	3511.2	3509.1	3612.1	3647.8	3824.4	4020.0	4232.3	4690.7	5365.6
30°	3757.1	3776.1	3725.6	3717.2	3847.6	3877.0	4051.5	4278.6	4501.4	4980.8	5783.9
32.5°	3914.8	3929.6	3900.1	3921.1	4053.6	4076.7	4326.9	4644.4	4924.0	5392.9	6353.7
35°	4141.9	4150.3	4083.0	4120.9	4272.3	4331.1	4703.3	5157.4	5456.0	5910.1	7098.0
37.5°	4964.0	4964.0	4678.0	4490.9	4636.0	4688.5	5218.4	5802.9	6111.9	6603.9	8035.7
40°	6101.4	6082.5	5664.1	5281.5	5262.5	5365.6	5952.1	6616.5	6959.2	7436.5	9091.2
42.5°	7314.6	7285.1	6715.3	6336.9	6273.8	6309.6	6799.4	7619.4	7968.4	8452.0	10226.5
45°	8391.0	8382.6	7861.2	7352.4	7238.9	7352.4	7857.0	8792.6	9042.8	9551.6	11359.7
47.5°	9293.0	9293.0	8912.4	8580.3	8521.4	8588.7	9288.8	10094.0	10070.9	10722.7	12463.6
50°	10331.6	10323.2	9961.6	9818.6	9879.6	9974.2	10937.1	11464.9	11134.8	11872.8	13449.6
52.5°	11059.1	11109.6	10985.5	10962.4	11273.5	11437.5	12610.7	12806.3	12087.2	12963.9	14187.6
55°	11635.2	11694.0	11837.0	11998.9	12598.1	12812.6	14231.7	14078.3	12884.1	13910.1	14612.3
57.5°	12450.9	12366.8	12587.6	12907.2	13876.4	14135.0	15802.3	15278.8	13525.3	14677.5	14658.6
60°	13441.2	13453.8	13491.7	13895.3	15152.6	15484.8	17349.7	16414.1	13937.4	15148.4	14145.5
62.5°	14631.2	14650.1	14727.9	15348.2	16866.2	17179.4	18998.1	17343.4	14126.6	15016.0	12821.0
65°	14549.2	14629.1	15497.4	17618.9	19471.1	19780.2	20921.9	17995.2	13840.7	13804.9	10438.9
67.5°	13254.1	13384.4	14837.3	20331.1	23398.6	23743.4	23247.2	18123.5	12606.5	10735.3	6810.0
70°	11555.3	11601.5	13348.7	22770.0	27946.3	28295.3	25328.7	16712.7	9566.3	5987.9	3050.7
72.5°	9023.9	9034.4	11084.3	23335.5	30414.6	30433.5	23695.0	12406.8	5144.8	2300.1	1059.7
75°	6446.2	6383.2	7423.9	18924.5	26758.4	26972.8	17763.9	5819.7	1965.8	1087.0	527.7
77.5°	3456.5	3525.9	4200.8	11223.1	18485.1	18850.9	9692.5	1677.8	1000.8	740.1	349.0
80°	1068.1	1126.9	1721.9	5138.5	10470.4	10691.2	3593.2	746.4	698.0	527.7	229.2
82.5°	336.4	349.0	803.2	2159.3	4345.8	4446.8	1040.7	422.6	477.3	349.0	134.6
85°	96.7	98.8	357.4	805.3	1074.4	1095.4	292.2	164.0	273.3	216.6	69.4
87.5°	10.5	33.6	134.6	134.6	94.6	92.5	31.5	35.7	77.8	27.3	12.6
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°	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7	4158.7
2.5°	4167.1	4169.2	4141.9	4095.6	4045.2	4003.1	3950.6	3908.5	3879.1	3870.7	3885.4
5°	4196.6	4181.9	4104.1	3963.2	3795.0	3649.9	3488.0	3359.8	3275.7	3239.9	3252.6
7.5°	4240.7	4198.7	4028.4	3750.8	3429.2	3143.2	2853.1	2628.1	2485.1	2413.7	2424.2
10°	4278.6	4194.5	3902.2	3443.9	2951.9	2518.8	2127.7	1856.5	1705.1	1633.6	1635.7
12.5°	4314.3	4192.4	3738.2	3080.1	2413.7	1883.8	1520.1	1385.5	1343.5	1328.8	1324.6
15°	4381.6	4198.7	3532.2	2663.9	1877.5	1423.4	1290.9	1288.8	1297.2	1293.0	1290.9
17.5°	4474.1	4205.0	3298.8	2222.3	1448.6	1255.2	1248.9	1267.8	1280.4	1274.1	1272.0
20°	4593.9	4230.2	3050.7	1785.0	1244.7	1213.1	1227.9	1244.7	1255.2	1244.7	1242.6
22.5°	4762.1	4274.4	2779.5	1433.9	1179.5	1187.9	1200.5	1219.4	1230.0	1215.2	1213.1
25°	4968.2	4343.7	2512.5	1246.8	1148.0	1158.5	1177.4	1198.4	1211.0	1196.3	1194.2
27.5°	5235.2	4455.2	2266.5	1204.7	1116.4	1122.7	1150.1	1181.6	1198.4	1179.5	1179.5
30°	5622.1	4638.1	2054.1	1223.6	1097.5	1082.8	1120.6	1164.8	1183.7	1166.9	1164.8
32.5°	6135.1	4896.7	1923.8	1253.1	1089.1	1036.5	1072.3	1129.0	1160.6	1150.1	1150.1
35°	6807.9	5289.9	1873.3	1286.7	1082.8	988.2	1013.4	1074.4	1129.0	1139.5	1139.5
37.5°	7623.6	5836.5	1888.0	1301.4	1063.9	948.2	960.8	1013.4	1084.9	1118.5	1126.9
40°	8550.8	6473.6	1972.1	1286.7	1042.8	914.6	916.7	956.6	1019.7	1070.2	1087.0
42.5°	9507.5	7217.8	2127.7	1232.1	1023.9	885.1	878.8	906.2	948.2	984.0	998.7
45°	10417.8	7983.1	2281.2	1156.4	1000.8	855.7	841.0	851.5	859.9	874.6	883.0
47.5°	11212.6	8521.4	2237.0	1087.0	969.2	822.1	796.8	792.6	767.4	765.3	763.2
50°	11761.3	8639.1	1986.9	1017.6	923.0	784.2	744.3	719.1	674.9	653.9	656.0
52.5°	11935.8	8174.5	1623.1	948.2	847.3	733.8	677.0	637.1	582.4	563.5	561.4
55°	11704.6	7264.1	1297.2	864.1	742.2	666.5	603.4	550.9	506.7	483.6	483.6
57.5°	11139.0	6105.6	1026.0	765.3	630.7	590.8	527.7	475.2	437.3	414.2	410.0
60°	10201.3	4848.3	811.6	647.6	538.2	508.8	443.6	410.0	376.3	349.0	342.7
62.5°	8777.9	3460.7	637.1	513.0	449.9	416.3	378.4	353.2	313.3	275.4	269.1
65°	6849.9	2117.2	492.0	376.3	361.6	344.8	321.7	298.6	250.2	212.4	206.0
67.5°	4320.6	1002.9	351.1	283.8	285.9	277.5	267.0	248.1	212.4	178.7	174.5
70°	1902.8	485.7	231.3	216.6	212.4	212.4	220.8	214.5	180.8	149.3	143.0
72.5°	647.6	260.7	172.4	164.0	153.5	151.4	185.0	178.7	145.1	115.6	109.3
75°	338.5	174.5	126.1	117.7	92.5	111.4	147.2	138.8	103.0	75.7	69.4
77.5°	220.8	124.0	86.2	75.7	52.6	73.6	109.3	96.7	61.0	37.8	33.6
80°	138.8	82.0	50.5	35.7	25.2	39.9	58.9	42.0	23.1	8.4	6.3
82.5°	73.6	42.0	18.9	12.6	10.5	12.6	14.7	10.5	4.2	0.0	0.0
85°	29.4	14.7	6.3	4.2	2.1	0.0	4.2	2.1	0.0	0.0	0.0
87.5°	10.5	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)