

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: P942978

Luminaire Tested: **GALN-SB7B-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942978
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-SB7B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 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: 28124 lumens
Efficiency: N/A
Efficacy: 109.6 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): 256.7
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



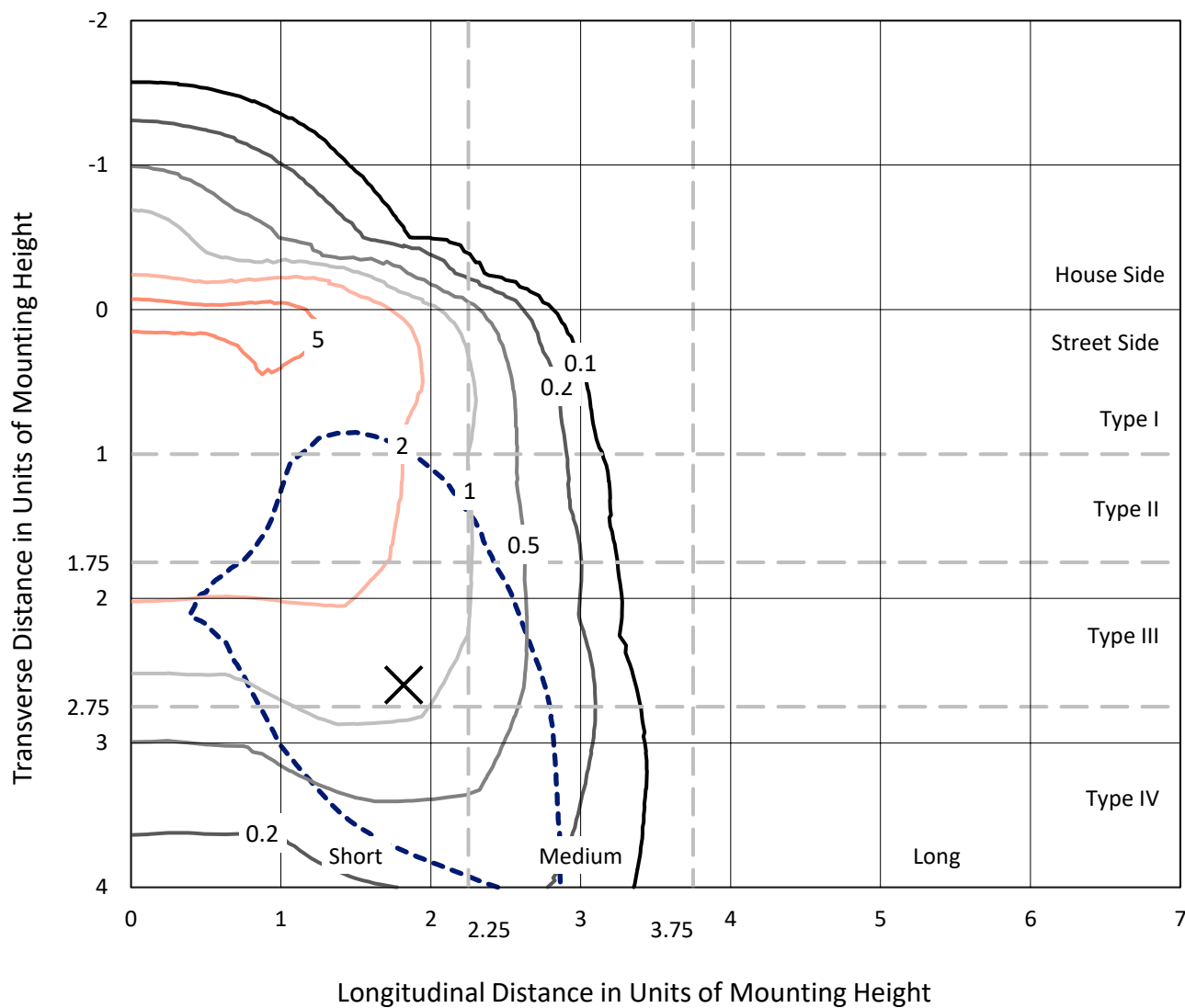
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

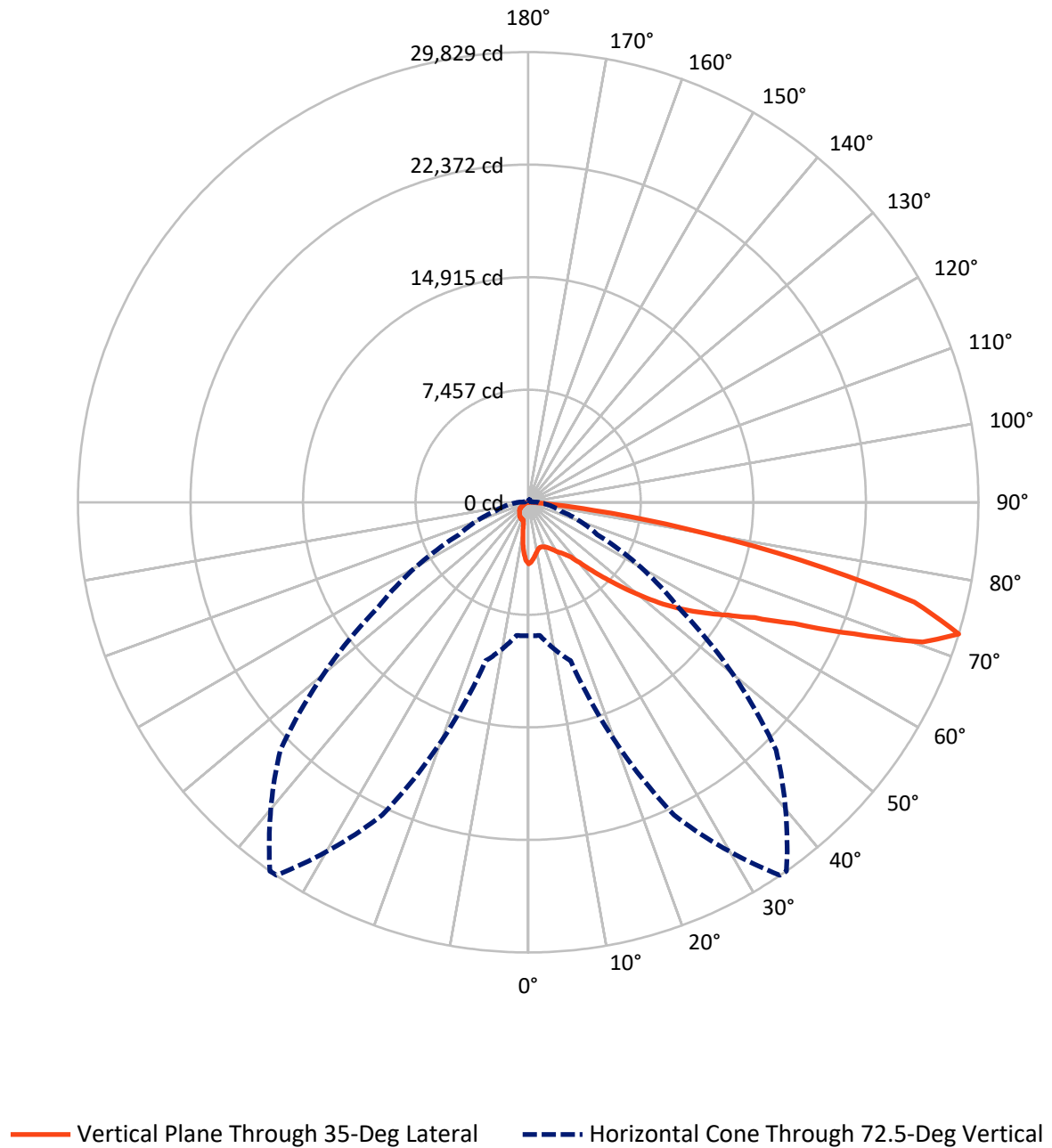


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

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	3165.2	0.0	3165.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24958.8	0.0	24958.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	28124.0	0.0	28124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	1.2
10°-20°	783.6	2.8
20°-30°	1272.9	4.5
30°-40°	2123.8	7.6
40°-50°	4018.3	14.3
50°-60°	6385.0	22.7
60°-70°	7898.7	28.1
70°-80°	4909.9	17.5
80°-90°	396.8	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°	28124.0	100.0
0°-180°	28124.0	100.0

Coefficient of Utilization



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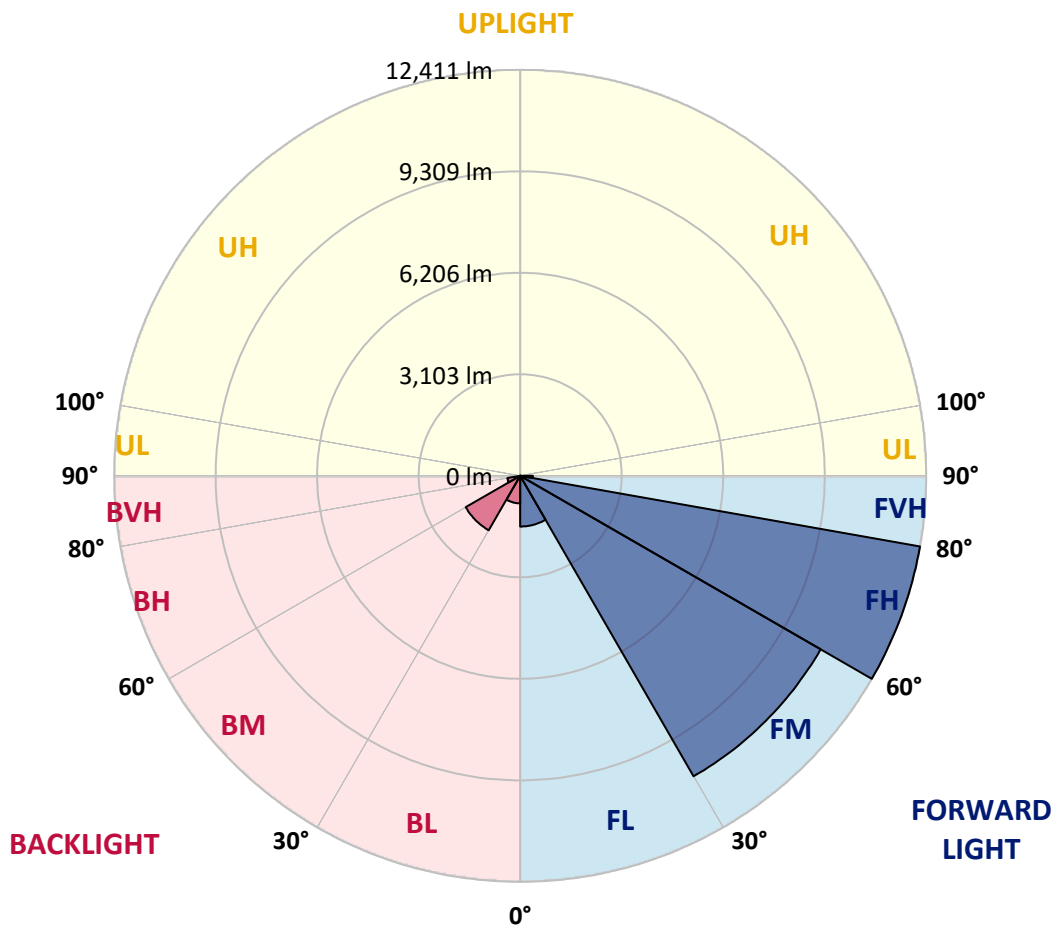
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1550.3	5.5			
FM	(30°-60°)	10605.6	37.7			
FH	(60°-80°)	12411.5	44.1			G5
FVH	(80°-90°)	391.4	1.4			G3/500
BL	(0°-30°)	841.1	3.0	B2/1000		
BM	(30°-60°)	1921.6	6.8	B2/2500		
BH	(60°-80°)	397.2	1.4	B1/500		G1/500
BVH	(80°-90°)	5.4	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°	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1
2.5°	3894.8	3927.7	3933.9	3944.2	3944.2	3956.6	3977.2	4006.0	4053.4	4078.2	4094.7
5°	3589.8	3614.5	3645.4	3670.1	3717.5	3723.7	3804.1	3882.4	3991.6	4074.0	4131.8
7.5°	3282.7	3311.6	3352.8	3412.6	3474.4	3492.9	3614.5	3746.4	3919.5	4074.0	4170.9
10°	3066.4	3068.4	3105.5	3165.3	3264.2	3286.9	3435.2	3622.8	3839.1	4049.3	4208.0
12.5°	2944.8	2959.2	2975.7	3021.0	3115.8	3130.2	3288.9	3509.4	3758.8	4034.9	4251.3
15°	2944.8	2955.1	2965.4	2988.0	3064.3	3076.7	3216.8	3437.3	3717.5	4041.1	4321.3
17.5°	2975.7	2992.2	2983.9	3010.7	3091.1	3099.3	3223.0	3416.7	3715.5	4080.2	4428.5
20°	3049.9	3062.2	3045.7	3062.2	3142.6	3159.1	3286.9	3455.8	3750.5	4148.2	4562.4
22.5°	3167.3	3173.5	3134.4	3146.7	3229.2	3249.8	3398.1	3567.1	3835.0	4257.5	4741.7
25°	3315.7	3328.1	3268.3	3282.7	3361.0	3385.8	3556.8	3734.0	3969.0	4407.9	4970.5
27.5°	3486.7	3492.9	3441.4	3439.3	3540.3	3575.4	3748.5	3940.1	4148.2	4597.5	5259.0
30°	3682.5	3701.1	3651.6	3643.4	3771.1	3800.0	3971.0	4193.6	4412.0	4881.9	5669.0
32.5°	3837.1	3851.5	3822.6	3843.2	3973.1	3995.7	4241.0	4552.1	4826.2	5285.8	6227.5
35°	4059.6	4067.9	4001.9	4039.0	4187.4	4245.1	4609.8	5055.0	5347.6	5792.7	6957.0
37.5°	4865.4	4865.4	4585.1	4401.7	4543.9	4595.4	5114.7	5687.6	5990.5	6472.7	7876.1
40°	5980.2	5961.7	5551.6	5176.5	5158.0	5259.0	5833.9	6485.1	6821.0	7288.8	8910.6
42.5°	7169.3	7140.4	6581.9	6211.0	6149.2	6184.2	6664.4	7468.1	7810.1	8284.1	10023.4
45°	8224.3	8216.1	7705.0	7206.3	7095.1	7206.3	7700.9	8617.9	8863.2	9361.9	11134.1
47.5°	9108.4	9108.4	8735.4	8409.8	8352.1	8418.1	9104.3	9893.5	9870.9	10509.7	12216.0
50°	10126.4	10118.2	9763.7	9623.6	9683.3	9776.1	10719.9	11237.1	10913.6	11636.9	13182.4
52.5°	10839.4	10888.9	10767.3	10744.6	11049.6	11210.3	12360.2	12551.9	11847.1	12706.4	13905.8
55°	11404.0	11461.7	11601.9	11760.5	12347.9	12558.0	13949.0	13798.6	12628.1	13633.7	14322.0
57.5°	12203.6	12121.2	12337.5	12650.8	13600.8	13854.2	15488.4	14975.3	13256.6	14385.9	14367.4
60°	13174.2	13186.6	13223.7	13619.3	14851.6	15177.2	17005.1	16088.1	13660.5	14847.5	13864.5
62.5°	14340.6	14359.1	14435.4	15043.3	16531.1	16838.2	18620.7	16998.9	13846.0	14717.7	12566.3
65°	14260.2	14338.5	15189.6	17268.9	19084.4	19387.3	20506.3	17637.7	13565.7	13530.7	10231.5
67.5°	12990.8	13118.6	14542.5	19927.2	22933.8	23271.7	22785.4	17763.4	12356.1	10522.1	6674.7
70°	11325.7	11371.1	13083.5	22317.6	27391.1	27733.2	24825.5	16380.7	9376.3	5868.9	2990.1
72.5°	8844.6	8854.9	10864.1	22872.0	29810.4	29829.0	23224.4	12160.3	5042.6	2254.4	1038.6
75°	6318.2	6256.4	7276.4	18548.6	26226.8	26437.0	17411.1	5704.1	1926.8	1065.4	517.2
77.5°	3387.8	3455.8	4117.3	11000.1	18117.9	18476.4	9499.9	1644.5	980.9	725.4	342.1
80°	1046.8	1104.5	1687.7	5036.4	10262.4	10478.8	3521.8	731.6	684.2	517.2	224.6
82.5°	329.7	342.1	787.2	2116.4	4259.5	4358.4	1020.1	414.2	467.8	342.1	131.9
85°	94.8	96.9	350.3	789.3	1053.0	1073.6	286.4	160.7	267.9	212.3	68.0
87.5°	10.3	33.0	131.9	131.9	92.7	90.7	30.9	35.0	76.2	26.8	12.4
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°	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1	4076.1
2.5°	4084.4	4086.4	4059.6	4014.3	3964.8	3923.6	3872.1	3830.9	3802.0	3793.8	3808.2
5°	4113.2	4098.8	4022.5	3884.5	3719.6	3577.4	3418.7	3293.0	3210.6	3175.6	3187.9
7.5°	4156.5	4115.3	3948.3	3676.3	3361.0	3080.8	2796.4	2575.9	2435.8	2365.7	2376.0
10°	4193.6	4111.1	3824.7	3375.5	2893.3	2468.7	2085.5	1819.6	1671.2	1601.2	1603.2
12.5°	4228.6	4109.1	3664.0	3019.0	2365.7	1846.4	1489.9	1358.0	1316.8	1302.4	1298.3
15°	4294.5	4115.3	3462.0	2610.9	1840.2	1395.1	1265.3	1263.2	1271.5	1267.3	1265.3
17.5°	4385.2	4121.4	3233.3	2178.2	1419.8	1230.3	1224.1	1242.6	1255.0	1248.8	1246.7
20°	4502.7	4146.2	2990.1	1749.6	1219.9	1189.0	1203.5	1219.9	1230.3	1219.9	1217.9
22.5°	4667.5	4189.5	2724.3	1405.4	1156.1	1164.3	1176.7	1195.2	1205.5	1191.1	1189.0
25°	4869.5	4257.5	2462.6	1222.0	1125.2	1135.5	1154.0	1174.6	1187.0	1172.6	1170.5
27.5°	5131.2	4366.7	2221.5	1180.8	1094.2	1100.4	1127.2	1158.1	1174.6	1156.1	1156.1
30°	5510.4	4546.0	2013.3	1199.3	1075.7	1061.3	1098.4	1141.6	1160.2	1143.7	1141.6
32.5°	6013.2	4799.4	1885.6	1228.2	1067.5	1015.9	1051.0	1106.6	1137.5	1127.2	1127.2
35°	6672.6	5184.8	1836.1	1261.2	1061.3	968.5	993.3	1053.0	1106.6	1116.9	1116.9
37.5°	7472.2	5720.6	1850.5	1275.6	1042.7	929.4	941.8	993.3	1063.3	1096.3	1104.5
40°	8381.0	6345.0	1933.0	1261.2	1022.1	896.4	898.5	937.6	999.5	1048.9	1065.4
42.5°	9318.6	7074.5	2085.5	1207.6	1003.6	867.6	861.4	888.2	929.4	964.4	978.8
45°	10210.9	7824.6	2235.9	1133.4	980.9	838.7	824.3	834.6	842.8	857.3	865.5
47.5°	10989.8	8352.1	2192.6	1065.4	950.0	805.7	781.0	776.9	752.2	750.1	748.0
50°	11527.7	8467.5	1947.4	997.4	904.7	768.6	729.5	704.8	661.5	640.9	642.9
52.5°	11698.7	8012.1	1590.9	929.4	830.5	719.2	663.6	624.4	570.8	552.3	550.2
55°	11472.0	7119.8	1271.5	847.0	727.4	653.2	591.4	539.9	496.6	474.0	474.0
57.5°	10917.7	5984.3	1005.6	750.1	618.2	579.1	517.2	465.7	428.6	406.0	401.8
60°	9998.6	4752.0	795.4	634.7	527.5	498.7	434.8	401.8	368.9	342.1	335.9
62.5°	8603.5	3392.0	624.4	502.8	441.0	408.0	370.9	346.2	307.0	270.0	263.8
65°	6713.8	2075.1	482.2	368.9	354.4	338.0	315.3	292.6	245.2	208.1	202.0
67.5°	4234.8	983.0	344.1	278.2	280.3	272.0	261.7	243.2	208.1	175.2	171.0
70°	1865.0	476.0	226.7	212.3	208.1	208.1	216.4	210.2	177.2	146.3	140.1
72.5°	634.7	255.5	169.0	160.7	150.4	148.4	181.3	175.2	142.2	113.3	107.2
75°	331.8	171.0	123.6	115.4	90.7	109.2	144.3	136.0	101.0	74.2	68.0
77.5°	216.4	121.6	84.5	74.2	51.5	72.1	107.2	94.8	59.8	37.1	33.0
80°	136.0	80.4	49.5	35.0	24.7	39.2	57.7	41.2	22.7	8.2	6.2
82.5°	72.1	41.2	18.5	12.4	10.3	12.4	14.4	10.3	4.1	0.0	0.0
85°	28.9	14.4	6.2	4.1	2.1	0.0	4.1	2.1	0.0	0.0	0.0
87.5°	10.3	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)